



Snow Survey and Water Supply Bulletin – June 1st, 2012

The June 1st snow survey is now complete. Data from 29 snow courses and 53 snow pillows around the province and climate data from Environment Canada have been used to form the basis for the following reports¹.

Weather

Cool and dry conditions were present throughout most the province throughout May. Province-wide, temperatures were 0.5 to 1.0°C below normal. Very dry conditions were present through the Interior, Kootenay and Columbia regions, and wetter than normal conditions were observed along the central Coast and north-west BC. At the end of May, weather across the province transitioned into a persistent wetter pattern.

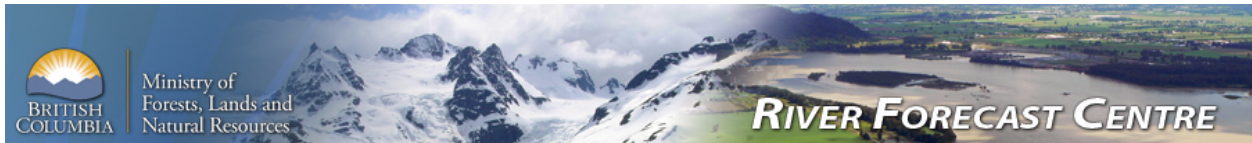
Snowpack

The cooler weather through May led to a delay in the onset of snow melt by 2-3 weeks. By June 1st, the snow melt season was proceeding steadily, and notable melt has occurred since the May 15th survey. Significant snow packs are still present at high elevations across the province, with above average to well above average snow basin indices in all regions except the Middle Fraser and Okanagan. The delay in snow melt season, particularly in high elevation locations, has led to an increase from May 15th snow basin index values in the Upper Fraser, Nechako, North Thompson, Similkameen, South Coast, Peace and Skeena-Nass (Map 1). Since the June 1st manual surveys were completed, significant additional snow melt has been observed at automated snow pillow stations, so it is likely that similar additional snow melt has occurred at the manual snow survey sites.

BC Snow Basin Indices – June 1, 2012

Basin	% of Normal	Basin	% of Normal
Upper Fraser	178%	Kootenay	124%
Nechako	178%	Okanagan-Kettle	81%
Middle Fraser	92%	Similkameen	183%
Lower Fraser	164%	South Coast	153%
North Thompson	134%	Vancouver Island	151%
South Thompson	116%	Peace	122%
Columbia	105%	Skeena-Nass	195%

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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Outlook

As of June 1st, there is still significant snow pack, particularly in the mountainous regions of the province. Rivers through most areas of the province were near normal levels at the beginning of June. Through the Interior Plateau (Middle Fraser watershed, excluding the Cariboo Mountains) and Okanagan basins, snow is now limited to the upper elevations. Given the delay in the onset of melt in other areas, the peak snow melt season is also expected to be delayed this year.

Heavy rains through the early part of June has led to flooding issues in many regions of the province, including the Upper Fraser, Nechako, Thompson River tributaries, Liard, north-east BC, Kootenay, Columbia and Okanagan. River levels in these areas remain elevated for this time of year.

Significant snow packs are still present in the Upper Fraser, Nechako, Lower Fraser, Columbia, Kootenay, Skeena-Nass and Peace regions, and in the Fraser Basin as a whole. While there has been additional melt of snow through the early part of June (i.e. since the June 1st snow surveys took place) there is still on-going elevated flood risk. It may be late-June before the elevated risk subsides through the Upper Fraser, Nechako, Kootenay Peace, Skeena-Nass, and overall Fraser Basin, where peak flows typically occur in early-June.. In Columbia and South Thompson, where peak flows typically occur late-June, elevated flood risk may extend into July.

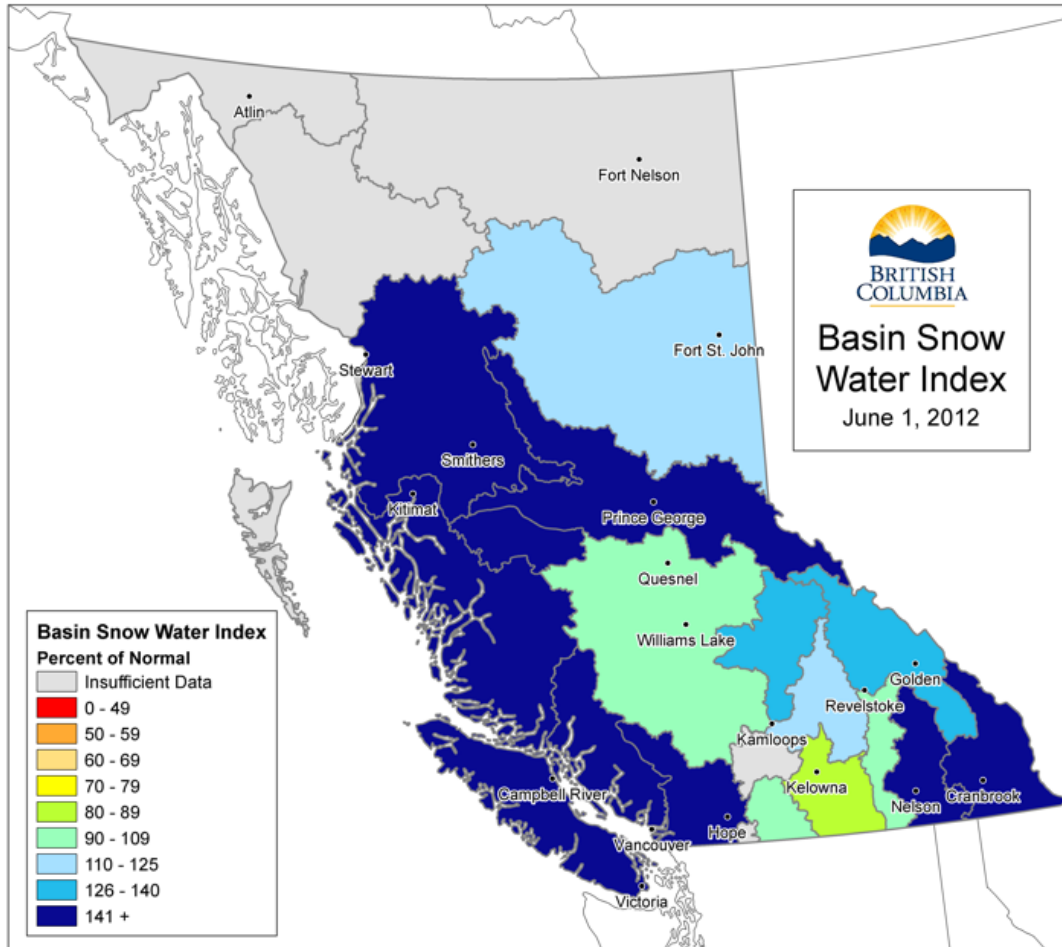
The River Forecast Centre continues to monitor snow and weather conditions across the Province and when conditions warrant, provides advisories through media releases and on the River Forecast Centre website: <http://bcRFC.env.gov.bc.ca/>. The June 15th snow bulletin is expected to be released on or before June 25th, 2012.

Produced by: BC River Forecast Centre
June 11th, 2012



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Map 1: Basin Snow Water Index-June 1st, 2012



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UPPER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
PACIFIC LAKE	1A11	770	30-May	90	462	651	0		411	0	71	33
HEDRICK LAKE	1A14P	1100	01-Jun	132	1021	297	720	388	784	0	344*	11
BIRD CREEK	1A23	1180						0	0	0	0*	17
LU LAKE	4B15P	1310	01-Jun	5	58	181	135	0	158	0	32*	14
BARKERVILLE	1A03P	1520	01-Jun	1	1	2	169	0	291	0	66	28
KNUDSEN LAKE	1A15	1580	30-May	174	959	145	662		1113	0	662	32
MCBRIDE (UPPER)	1A02P	1620	01-Jun	83	400	226	209	107	316	11	173*	14
REVOLUTION CREEK	1A17P	1690	01-Jun	230	1117	226	659	428	940	0	495	27
LONGWORTH (UPPER)	1A05	1740		181	964	163	740		1194	0	591	50
DOME MOUNTAIN	1A19P	1820	01-Jun	194	1066	166	668	499	1050	255	644*	6
YELLOWHEAD	1A01P	1860	01-Jun	105	682	147	400	464	645	0	464	13

NECHAKO Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
TAHTSA LAKE	1B02	1300	01-Jun	296	1619	161		963	1828Z	406	1007	33
TAHTSA LAKE	1B02P	1300	01-Jun	N/A	1647	165	1157	945	2139	277	1001	18
KIDPRICE LAKE	4B01	1370	01-Jun	216	1288	193		587	1359A	0	666	34
MOUNT PONDOSY	1B08P	1400	01-Jun	N/A	820	293	508	171	929	0	280	18
MOUNT WELLS	1B01	1490	01-Jun	98	450	180		211	529	0	250	31
MOUNT WELLS	1B01P	1490	01-Jun	N/A	557	230	409	189	685	0	250	20
NUTLI LAKE	1B07	1490	01-Jun	54	303	131		292	618Z	0	232*	19
MOUNT SWANNELL	1B06	1620	01-Jun	44	175	159		0	350Z	0	110*	22

MIDDLE FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
BOSS MOUNTAIN MINE	1C20P	1460	01-Jun	16	121	69	364	114	435	0	175	18
BRENDA MINE	2F18P	1460	01-Jun	N/A	4		6	0	6	0	0	18
BARKERVILLE	1A03P	1520	01-Jun	1	1	2	169	0	291	0	66	28
YANKS PEAK EAST	1C41P	1670	01-Jun	108	661	112	908	347	1016	104	590	14
PENFOLD CREEK	1C23	1680	30-May	193	1083	128	1044	758	1354	353	847	40
GREEN MOUNTAIN	1C12P	1780	01-Jun	N/A	829	172	918		1183	140	610	17
MISSION RIDGE	1C18P	1850	01-Jun	N/A	239	157	442	195	710	0	151	30

LOWER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
DISAPPOINTMENT LAKE	1D18P	1040	01-Jun	N/A	1576	162	2177	1215	2177	0	1092*	9
CALLAGHAN CREEK	3A20	1040	31-May	110	550	250	1050	394	1228	0	220	27
DOG MOUNTAIN	3A10	1080	04-Jun	188	1035	122	1575	503	2480Z	0	850	25
SPUZZUM CREEK	1D19P	1180	01-Jun	294	1946	164	1851	1350	1823	0	1186*	12
WAHLEACH LAKE	1D09P	1400	01-Jun	N/A	1015	156	1143	911	1525	0	650	18
CHILLIWACK RIVER	1D17P	1600	01-Jun	324	2165	196	2056	1451	2056	0	1105*	16
TENQUILLE LAKE	1D06P	1680	01-Jun	224	1113	143	1381	1135	1388	210	779*	11

NORTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
BOSS MOUNTAIN MINE	1C20P	1460	01-Jun	16	121	69	364	114	435	0	175	18
MOUNT COOK	1E02P	1550	01-Jun	252	1403E	135	1435E	1271	1560	574	1040*	10
AZURE RIVER	1E08P	1620	01-Jun	146	1247	121	1107	908	1778	416	1030	15
ADAMS RIVER	1E07	1720	26-May	153	788	132	765	623	1155	0	595	39
KOSTAL LAKE	1E10P	1770	01-Jun	164	953	136	983	676	1377	155	700	27

SOUTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
CELISTA	1F06P	1500	01-Jun	146	802	99	890	611	890	38	561*	6
ADAMS RIVER	1E07	1720	26-May	153	788	132	765	623	1155	0	595	39
SILVER STAR MOUNTAIN	2F10	1840	02-Jun	99	512	109	838	562	980	0	468	53
PARK MOUNTAIN	1F03P	1890	01-Jun	145	787	106	1136	761	1269	296	742	26
ENDERBY	1F04	1900					967	1422		430	960	47

UPPER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
AZURE RIVER	1E08P	1620	01-Jun	146	1247	121	1107	908	1778	416	1030	15
KICKING HORSE	2A07	1650				44		226	0	60	33	
MOUNT REVELSTOKE	2A06P	1830	01-Jun	N/A	1280	112	1428E	795	2063	240	1146	18
MOLSON CREEK	2A21P	1980	01-Jun	N/A	1283	158	889	968	1512	98	810	28

LOWER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
FERGUSON	2D02	880				400		400	0	25	13	
FARRON	2B02A	1220				34		34	0	3	18	
BARNES CREEK	2B06P	1620	01-Jun	N/A	221	108	630	113	630	0	205	11
ST. LEON CREEK	2B08P	1800	01-Jun	N/A	1028	126	1380	638	1580	225	815	18
RECORD MOUNTAIN	2B09	1890	03-Jun	64	155	35	810	450	1073	0	442	35
EAST CREEK	2D08P	2030	01-Jun	N/A	870	98	971	608	1256	111	770	29

EAST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
FERNIE EAST	2C07	1250				0		51	0	5	15	
SULLIVAN MINE	2C04	1550	28-May	0T	0T	0	98	0	137	0	13	29
KIMBERLEY (MIDDLE) VOR	2C12	1680										
MORRISSEY RIDGE	2C09Q	1800	01-Jun	N/A	428	306	878	158	878	0	140	26
MOYIE MOUNTAIN	2C10P	1930	01-Jun	1	2	3	474	0	474	0	60	26
FLOE LAKE	2C14P	2090	01-Jun	N/A	930	152	791	566	979	98	610	17
KIMBERLEY (UPPER) VOR	2C11	2140										

WEST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
FERGUSON	2D02	880				400		322	0	25	13	
CHAR CREEK	2D06	1310	01-Jun	39	180	327	362	117	362	0	55	35
GRAY CREEK (LOWER)	2D05	1550	30-May	92	433	206	498	N	551	0	210	56
GRAY CREEK (UPPER)	2D10	1910	30-May	180	913	171	851	487	1120	0	535	39
EAST CREEK	2D08P	2030	01-Jun	N/A	870	98	971	608	1256	111	770	29
REDFISH CREEK	2D14P	2104	01-Jun	320	1805	152	1702	1200	1702	818	1185*	10

KETTLE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
FARRON	2B02A	1220				34		34	0	3	18	
BIG WHITE MOUNTAIN	2E03	1680	02-Jun	40	276	137	528	242	658	0	202	46
GRANO CREEK	2E07P	1860	01-Jun	67	396	129	727	300	769	0	318*	14

OKANAGAN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
SUMMERLAND RESERVOIR	2F02	1280				0		25	0	5*	8	
BRENDA MINE	2F18P	1460	01-Jun	N/A	4	6	0	6	0	0	18	
GREYBACK RESERVOIR	2F08	1550				104	0	155	0	4	25	
ISINTOK LAKE	2F11	1680				60		211	0	25	21	
MISSION CREEK	2F05P	1780	01-Jun	74	351	149	620	391	641	0	236	40
MOUNT KOBAN	2F12	1810	30-May	22	82	62	396	271	488	0	132	46
WHITEROCKS MOUNTAIN	2F09	1830	28-May	50	219	112	400	194	848	0	196	40
SILVER STAR MOUNTAIN	2F10	1840	02-Jun	99	512	109	838	562	980	0	468	53

SIMILKAMEEN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
ISINTOK LAKE	2F11	1680				60		211	0	25	21	
BLACKWALL PEAK	2G03P	1940	01-Jun	142	826	176	941	589	1253	0	452	43

SOUTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
PALISADE LAKE	3A09P	880	01-Jun	N/A	N/A		61	595	0	120*	9	
CALLAGHAN CREEK	3A20	1040	31-May	110	550	250	1050	394	1228	0	220	27
ORCHID LAKE	3A19	1190	04-Jun	348	1862	119	2592	1712	3648	174	1560	32
ORCHID LAKE	3A19P	1190	01-Jun	345E	1750	143	2262	1375	2262	184	1220*	13
UPPER SQUAMISH RIVER	3A25P	1340	01-Jun	280	1700	139	2441E	1431	1714	435	1220	19
NOSTETUKO RIVER	3A22P	1500	01-Jun	0	387	287	676	304	676	0	135*	19
UPPER MOSELY CREEK	3A24P	1650	01-Jun	0	21	58	233	55	233	0	36*	23

VANCOUVER ISLAND Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
JUMP CREEK	3B23P	1160	01-Jun	211	1222	235	1914	747	1914	0	520	14
WOLF RIVER (UPPER)	3B17P	1490	01-Jun	N/A	1483	148	2115	1795	2465	42	980	24

NORTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
TAHTSA LAKE	1B02	1300	01-Jun	296	1619	161		963	1828Z	406	1007	33
TAHTSA LAKE	1B02P	1300	01-Jun	N/A	1647	165	1157	945	2139	277	1001	18
BURNT BRIDGE CREEK	3C08P	1330	01-Jun	169	1072	335	512	199	1125	0	320*	13

PEACE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
PACIFIC LAKE	1A11	770	30-May	90	462	651	0		411	0	71	33
AIKEN LAKE	4A30P	1040	01-Jun	N/A	3		2	0	0	0	0	24
PULPIT LAKE	4A09P	1310	01-Jun	N/A	202		0	0	207	0	0	21
PINE PASS	4A02P	1400	01-Jun	N/A	1426	179	727	598	1289	183	795	19
KWADACHA RIVER	4A27P	1620	01-Jun	N/A	119E	59	38	15	458	0	201*	23

SKEEN/NASS Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 1 2012			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2011 mm	2010 mm	Max. mm	Min. mm	Normal mm		
GRANDUC MINE	4B12P	790	01-Jun	N/A	1700	146			1796	818	1166*	6
CEDAR-KITEEN	4B18P	885	01-Jun	N/A	487	278	173	0	604	0	166*	11
MCKENDRICK CREEK	4B07	1050	29-May	30	139	632	115		149	0	22*	14
LU LAKE	4B15P	1310	01-Jun	5	58	181	135	0	158	0	32*	14
TSAI CREEK	4B17P	1360	01-Jun	220	1885	179	1346	1039	2086	330	1051*	14
KIDPRICE LAKE	4B01	1370	01-Jun	216	1288	193		587	1359A	0	666	34
CHAPMAN LAKE	4B04	1460	29-May	116	584	123	424		594	285	473*	6
HUDSON BAY MTN.	4B03A	1480	29-May	118	564	196	433	260	729	0	288	39
MOUNT CRONIN	4B08	1480	29-May	175	806	115	674		927	500	702*	9
SHEDIN CREEK	4B16P	1480	01-Jun	170	1167	166	739	293	1219	64	705*	15

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

N- SCHEDULED, BUT NOT MEASURED

* - PERIOD OF RECORD AVERAGE

N/A - NOT AVAILABLE

NOTE: 1971-2000 NORMALS BEING USED