



## Water Supply and Snow Survey Bulletin – June 15, 2010

The June 15 snow survey is now complete. This is a small survey, and is the final survey of the 2010 season. Data from 50 automated snow pillows around the province have been used to form the basis of the following report.

### Weather:

Weather during the first two weeks of June has continued in the pattern set in late April – cool and damp. As a result of the cool weather, snowmelt has been slow and steady. Early June has brought further rainfall to most of the province.

### Current Snowpack:

The 2010 spring snowmelt is almost complete. Low and mid elevation snow is gone, and the melt of high elevation snow is well advanced. Many high elevation snow pillows across the province are now recording zero snow. For the remaining pillows, about one-third of their maximum snow water remains to melt.

### Water Supply Outlook:

Major rivers in the province have experienced their freshet peak flows and are now beginning to decline. Due to the poor winter snowpack, the freshet peaks on major rivers were notably well below normal:

- The Skeena River peaked on May 29, near 3200 cubic metres per second ( $\text{m}^3/\text{s}$ ), well below average.
- The North Thompson River peaked on June 15 at 1325  $\text{m}^3/\text{s}$ , the second lowest freshet peak discharge recorded since 1959.
- The Thompson River at Kamloops peaked on June 16, at the 3<sup>rd</sup> lowest freshet peak discharge recorded since 1952.
- The Fraser River at Hope peaked on June 17, at a discharge of 5820  $\text{m}^3/\text{s}$ , the 2<sup>nd</sup> lowest freshet peak discharge recorded since 1912.

Water levels on smaller rivers in the south Interior are generally above normal at the present, due to the sustained wet weather during May and early June. This rainfall has been beneficial for summer water supply. However, well below normal water levels should be anticipated this summer for the mainstream Fraser, Thompson, Skeena and Nass rivers.

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.

## UPPER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
HEDRICK LAKE	1A14P	1100	15-Jun	2	7	20	256	26	293	0	35*	10
LU LAKE	4B15P	1310	15-Jun	0	0	0	0	0	0	0	0*	11
BARKERVILLE	1A03P	1520	15-Jun	0	0	0	0	0	37	0	0	17
MCBRIDE (UPPER)	1A02P	1620	15-Jun	0	0	0	0	0	0	0	0*	4
REVOLUTION CREEK	1A17P	1690	15-Jun	44	144	60	477	345	724	0	240	24
DOME MOUNTAIN	1A19P	1820	15-Jun	N/A	285	66	600	326	694	278	433*	4
YELLOWHEAD	1A01P	1860	15-Jun	18	202	88	23	0	641	0	229	13

## NECHAKO Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
TAHTSA LAKE	1B02P	1300	15-Jun	N/A	613	94	552	610	1871	0	649	17
MOUNT PONDOSY	1B08P	1400	15-Jun	N/A	0	0	0	0	481	0	0	16
MOUNT WELLS	1B01P	1490	15-Jun	N/A	0	0	82	0	320	0	0	18

## MIDDLE FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BOSS MOUNTAIN MINE	1C20P	1460	15-Jun	0	0	0	0	0	131	0	0	16
BRENDA MINE	2F18P	1460	15-Jun	N/A	0	0	0	0	0	0	0*	17
BARKERVILLE	1A03P	1520	15-Jun	0	0	0	0	0	37	0	0	17
YANKS PEAK EAST	1C41P	1670	15-Jun	N/A	24	8	315	353	754	0	315	13
GREEN MOUNTAIN	1C12P	1780	15-Jun	N/A	652	329	0	195	933	0	340	16
MISSION RIDGE	1C18P	1850	15-Jun	N/A	0	0	0	0	253	0	0	23

## LOWER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
DISAPPOINTMENT LAKE	1D18P	1040	15-Jun	N/A	886	161			966P	0P	552*	5
DOG MOUNTAIN	3A10	1080	12-Jun	59	310	65		984	2088Z	0	480	24
SPUZZUM CREEK	1D19P	1180	15-Jun	164	1061	134		1395	1403	0	789*	10
WAHLEACH LAKE	1D09P	1400	15-Jun	N/A	750	188	518	1122	1185	0	400	17
CHILLIWACK RIVER	1D17P	1600	15-Jun	165	1054	143	724	1151	1759	0	735*	15
TENQUILLE LAKE	1D06P	1680	15-Jun	N/A	904	198	0	431	1182	0	457*	9

## NORTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BOSS MOUNTAIN MINE	1C20P	1460	15-Jun	0	0	0	0	0	131	0	0	16
MOUNT COOK	1E02P	1550	15-Jun	129	949	144	664	1099	1155	281	660*	9
AZURE RIVER	1E08P	1620	15-Jun	49	587	86	394	543	1489	94	680	13
KOSTAL LAKE	1E10P	1770	15-Jun	71	370	109	96	585	1285	0	340	25

## SOUTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
CELISTA	1F06P	1500	15-Jun	57	289	165	45		379	0	190*	3
PARK MOUNTAIN	1F03P	1890	15-Jun	N/A	548	120	480	851	1095	0	458	24
ENDERBY	1F04	1900	17-Jun	143	767	107	623	1042	1326	62	715	31

## UPPER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
AZURE RIVER	1E08P	1620	15-Jun	49	587	86	394	543	1489	94	680	13
MOUNT REVELSTOKE	2A06P	1830	15-Jun	N/A	525	66	458	904	1801	0	800	17
MOLSON CREEK	2A21P	1980	15-Jun	N/A	679	126	458	795	1163	0	540	25

## LOWER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BARNES CREEK	2B06P	1620	15-Jun	N/A	0	0	0	0	169	0	0	17
ST. LEON CREEK	2B08P	1800	15-Jun	N/A	416	79	390	585	1351	0	525	16
RECORD MOUNTAIN	2B09	1890	13-Jun	35	160	73	0	0	949	0	220	21
EAST CREEK	2D08P	2030	15-Jun	N/A	409	62	214	551	1163	0	525	26

## EAST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BANFIELD MOUNTAIN	MT05P	1710	15-Jun	0	0	0	0	0	8	0	5	12
MORRISSEY RIDGE	2C09Q	1800	15-Jun	N/A	0	0	0	0	458	0	0	25
MOYIE MOUNTAIN	2C10P	1930	15-Jun	0	0	0	0	0	25	0	0	20
HAWKINS LAKE	MT06P	1970	15-Jun	0	0	0	0	64	683	0	185	13
FLOE LAKE	2C14P	2090	15-Jun	N/A	413	96	188	394	862	0	432	15

## WEST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BUNCHGRASS MEADOW	WA01P	1520	15-Jun	0	0	0	0	5	394	0	0	12
EAST CREEK	2D08P	2030	15-Jun	N/A	409	62	214	551	1163	0	525	26
REDFISH CREEK	2D14P	2104	15-Jun	167	971	109	484	1111	1421	484	894*	8

## KETTLE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
GRANO CREEK	2E07P	1860	15-Jun	1	8	7	0	161	503	0	115*	12

## OKANAGAN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BRENDA MINE	2F18P	1460	15-Jun	N/A	0	0	0	0	0	0	0*	17
MISSION CREEK	2F05P	1780	15-Jun	38	155	N/A	0	274	424	0	0	38

## SIMILKAMEEN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
BLACKWALL PEAK	2G03P	1940	15-Jun	60	308	128	0	386	1031	0	240	42
HARTS PASS	WA09P	1980	15-Jun	99	186	73	20	470	1267	0	254	11

## SOUTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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	3A09P	880	15-Jun	N/A	N/A	N/A			8	8	8*	2
DOG MOUNTAIN	3A10	1080	12-Jun	59	310	65		984	2088Z	0	480	24
ORCHID LAKE	3A19	1190	14-Jun	281	1528	133		1331	1910	0	1150	29
ORCHID LAKE	3A19P	1190	15-Jun	N/A	1116	97			2074	0	1150*	18
UPPER SQUAMISH RIVER	3A25P	1340	15-Jun	551	1147	140		956	1463	131	820	19
NOSTETUKO RIVER	3A22P	1500	15-Jun	0	0	0	60	0	116	0	18*	19
UPPER MOSELY CREEK	3A24P	1650	15-Jun	0	0	0	0	0	0	0	0*	21

## VANCOUVER ISLAND Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
JUMP CREEK	3B23P	1160	15-Jun	92	274	161	0	930	930	0	170	13
WOLF RIVER (UPPER)	3B17P	1490	15-Jun	N/A	1554	234	34	719	1088	0	580	21

## NORTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
TAHTSA LAKE	1B02P	1300	15-Jun	N/A	613	94	552	610	1871	0	649	17
BURNT BRIDGE CREEK	3C08P	1330	15-Jun	0	0	0		0	728	0	119*	12

## SKAGIT Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
HARTS PASS	WA09P	1980	15-Jun	99	186	73	20	470	1267	0	254	11

## PEACE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
AIKEN LAKE	4A30P	1040	15-Jun	N/A	0	0	0	0	0	0	0*	23
PULPIT LAKE	4A09P	1310	15-Jun	N/A	0	0	0	0	0	0	0	19
PINE PASS	4A02P	1400	15-Jun	N/A	207	48	466	695	1082	0	435	18
KWADACHA RIVER	4A27P	1620	15-Jun	N/A	0	0	0	71	454	0	69*	21

## LIARD Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
<i>NOTE: No Surveys currently done in this basin.</i>												

## SKEENA/NASS Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
CEDAR-KITEEN	4B18P	885	15-Jun	0	0	0	0	0	113	0	23*	9
LU LAKE	4B15P	1310	15-Jun	0	0	0	0	0	0	0	0*	11
TSAI CREEK	4B17P	1360	15-Jun	91	669	107	808	581	1778	0	626*	12
HUDSON BAY MTN.	4B03A	1480	15-Jun	3	20	19		29	673	0	108	31
SHEDIN CREEK	4B16P	1480	15-Jun	0	0	0	372		896	0	390*	12

## STIKINE/TAKU Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Jun 15 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		
<i>NOTE: No Surveys currently done in this basin.</i>												
A - SAMPLING PROBLEMS WERE ENCOUNTERED												
B - EARLY OR LATE SAMPLING												
C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED												
E - ESTIMATED BASED ON AREAL AVERAGE												
* - PERIOD OF RECORD AVERAGE												