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## Snowpack and Water Supply Outlook for British Columbia

January 1, 2003

reposted with current precipitation graphs January 15

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 on review.

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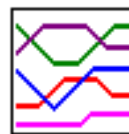
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### Province-wide Synopsis



[B.C Summary Graphs of Snow Water Equivalents](#)

Relatively few snow courses are sampled for the January bulletin, but manual snow surveys have been conducted at 86 BC snow courses. These, together with data from 56 BC snow pillows, 12 out of province snow survey locations, and meteorological and streamflow data from Environment Canada, have been used in making the following analyses.

### Snowpack

Snowpacks in most of BC are well below normal for January 1. The only normal snowpacks are on Vancouver Island. The Peace, Upper Fraser, and Similkameen have less than half their normal snowpacks. Lower elevation snow is particularly sparse, as indicated by the low-elevation Fraser snow water index which is at 21% of normal for this date.

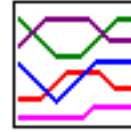
### Weather

As indicated by Environment Canada valley bottom weather stations, weather in the province has been much warmer than normal during November and December, with December mean monthly temperatures varying from 2 degrees C above normal on the South Coast to 7 degrees C above normal in the North. Cumulative precipitation during the fall and early winter, with the exception of Vancouver Island, has been generally less than normal throughout the province.

## Outlook

By January 1 each year, on average less than half the peak snowpack for the winter has fallen. This means that the weather patterns during the next four months or so still have a major effect on the total snowpack when freshet begins in the spring. However, if normal snow accumulations occur during the next 3 or 4 months, freshet volumes will be below normal this year.

### Upper Fraser & Nechako Basins



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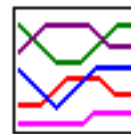
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After a cool but relatively dry October, and a very dry and much warmer than usual December, (monthly mean temperature was around 5 degrees C above normal at Prince George), there is very little low elevation snow in the Upper Fraser and Nechako basins. Higher elevation snow varies from 40% to 60% of a normal January 1 snowpack. Many of the January 1 survey measurements of snow water equivalent are minimums for the period of record.

Regional Streamflows, as represented by the mean monthly flow in the Fraser River at Marguerite, were lower than normal during November and December.

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### Middle and Lower Fraser



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The overall snow water equivalent index of middle and upper elevation stations shows only 64% of normal January 1 snowpacks for both the middle and lower Fraser basins. The Bridge River and southern coast range have had nearer normal precipitation, and have only slightly below normal snowpacks. However, the Interior Plateau was very much warmer and drier than usual during December, and has very little snow (the Fraser low-elevation snow water index is only 21% of normal for January 1).

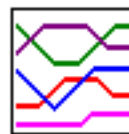
Regional streamflows as represented by the mean monthly flow in the Fraser River

at Hope, were normal during November, but dropped to 65% of normal during December.

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## Thompson Basin



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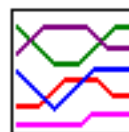
The Thompson basin had a cool but dry October, a warm November, and a very warm December (mean monthly temperature 4 to 4.5 degrees C above normal). December precipitation was well below normal in the North Thompson, resulting in record minimum readings for the 6 snow pillow stations' various periods of record, and a snow water index of 63% of normal. The South Thompson basin, however, had above normal precipitation during December, and has the highest snow water index for January 1 in the interior, at 75% of normal. There is very little low elevation snow.

Streamflows, as measured by mean monthly flow in the Thompson at Spences Bridge, well below normal in November, and below normal during December.

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## Columbia Basin



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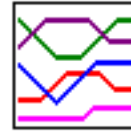
[Snow Survey Data  
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The snow season in the Columbia basin started late due to a very dry October. Although cumulative November-December precipitation was only slightly below normal, a very warm December (mean monthly temperature of 3.8 degrees C above normal), resulted in a record low snow water equivalent index in the Columbia basin, at 58% of normal for January 1.

Streamflows, as represented by the mean monthly flow in the Columbia River at Donald, were above normal during both November and December.

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## Kootenay Basin



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October in the Kootenays was cool, but very dry (17% of normal precipitation). While December had well above normal precipitation, mean monthly temperature at Cranbrook was 3.8 degrees C above normal that month. As a result there are far below normal snowpacks in the Kootenay basin, with the snow water index at \*60% of normal for January 1.

Streamflows, as measured by the mean monthly flow in the Kootenay River at Ft Steele, were only 60% of normal during November and December.

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## Okanagan, Kettle, and Similkameen Basins



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Consistently well below normal precipitation September through December, combined with a warm November and a very warm December, have resulted in much less snow than usual for January 1 in these basins. The Okanagan-Kettle snow water index for this date is 68% of normal, with the Similkameen index even lower at 47 % of normal snow water equivalent for January 1.

Streamflows in the region, as represented by the monthly inflows to Okanagan Lake, were far below normal during November and December.

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## Coastal Region & Vancouver Island



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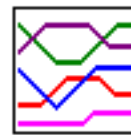
Although October was a very dry month on the South Coast and Vancouver Island, cumulative November-December precipitation was closer to normal than most areas of BC. Temperatures, while still above normal in December, were less so than elsewhere in the province (less than 2 degrees above normal mean monthly temperature). Vancouver Island is the only region showing a slightly above normal snowpack, with the snow index at 104% of usual for January 1. The southern Coast Range had slightly less precipitation than the Island, and most of the readings from the South Coast are around 75% of normal for this date.

Streamflows, as represented by the inflows to Upper Campbell Lake, were well above usual in November, and normal during December.

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## North East Region



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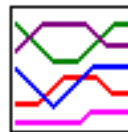
Most of the snow measurements in the Peace basin are minimums recorded. December had only 1% of normal precipitation, and a monthly mean temperature of 7.2 degrees C above normal at Ft St John. Snowpacks in the Northeast of BC are less than half of normal for January 1.

Streamflows in the region, as represented by mean monthly inflows to Williston Lake, were above normal during November, and below normal during December.

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## NorthWest Region



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Snowpacks in the Northwest are also below normal for January 1, with the Skeena-Nass snow water index showing 69% of normal. Mean monthly temperature in Smithers was 4.5 degrees above normal during December, and over 6 degrees above normal in Dease lake during both November and December. Cumulative November-December precipitation was far below normal.

Streamflows in the region, as measured by the mean monthly flow in the Skeena River at Usk, were normal during November, and above normal during December due to warmer temperatures.

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# UPPER and MIDDLE FRASER

*January 1, 2003*

## UPPER FRASER

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
PACIFIC LAKE	1A11	770	26	31	56	183	150	476	150	310	19
BURNS LAKE	1A16	800	30	10	10	58	40	176	26	77	28
PHILIP LAKE	4A13	980	03	42	93	163	92	268	64	150	20
HEDRICK LAKE	1A14	1100	26	62	94	248	161	640	161	335	12
HEDRICK LAKE	1A14P	1100	01	-	139	368	233	461	233	354*	3
KAZA LAKE	1A12	1190	03	59	119	219	156	371	113	190	17
MOUNT SHEBA	4A18	1490	26	50	106	450	244	793	244	400	14
BARKERVILLE	1A03P	1520	01	-	68	150	90	312	90	168	22
KNUDSEN LAKE	1A15	1580	26	79	125	387	242	821	242	410	13
REVOLUTION CREEK	1A17P	1690	01	-	191	432	222	814	222	415	18
LONGWORTH (UPPER)	1A05	1740	26	70	128	406	254	694	254	350	12
YELLOWHEAD	1A01P	1860	01	-	236	334	184	428	184	340	6
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

**NECHAKO****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
SKINS LAKE	1B05	880	02	11	14	45	35	111	0	65	17
TAHTSA LAKE	1B02P	1300	01	-	369	957	509	957	475	703	10
MOUNT PONDOSY	1B08P	1400	01	-	204	607	-	686	283	451	9
MOUNT WELLS	1B01P	1490	01	-	131	384	216	433	216	328	10

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

**MIDDLE FRASER****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
PUNTZI MOUNTAIN	1C22	940	27	2	2	22	22	106	0	40	30
BIG CREEK	1C21	1140	29	9	10	18	30	62	10	36	16



GRANITE MOUNTAIN	1C33	1150	02	16	26	86	76	158	43	100	10
LAC LE JEUNE (LOWER)	1C07	1370	28	25	41	52	44	123	8	59	30
BRIDGE GLACIER (LOWER)	1C39	1400	05	138	326	330	224	456	204	321*	8
BRALORNE	1C14	1450	05	38	78	96	48	158	48	90	8
BOSS MOUNTAIN MINE	1C20P	1460	01	-	191	330	233	461	233	320	9
LAC LE JEUNE (UPPER)	1C25	1460	28	32	57	84	58	146	10	75	30
BRENDA MINE	2F18P	1460	01	-	100	230	-	304	107	186	8
BARKERVILLE	1A03P	1520	01	-	68	150	90	312	90	168	22
YANKS PEAK EAST	1C41P	1670	01	-	199	375	296	491	296	422	6
GREEN MOUNTAIN	1C12P	1780	01	-	354	573	268	707	268	440	9
MCGILLIVRAY PASS	1C05	1800	05	107	266	301	191	458	191	260	10
MISSION RIDGE	1C18P	1850	01	-	168	302	165	659	148	272	16
DOWNTON LAKE (UPPER)	1C38	1890	05	169	416	602	324	690	294	425	8
TYAUGHTON CREEK (NORTH)	1C40	1950	05	110	264	-	152	364	152	175	7
BRALORNE (UPPER)	1C37	1980	05	104	264	318	244	504	195	368	8

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**MIDDLE and LOWER FRASER***January 1, 2003***MIDDLE FRASER****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
PUNTZI MOUNTAIN	1C22	940	27	2	2	22	22	106	0	40	30
BIG CREEK	1C21	1140	29	9	10	18	30	62	10	36	16
GRANITE MOUNTAIN	1C33	1150	02	16	26	86	76	158	43	100	10
LAC LE JEUNE (LOWER)	1C07	1370	28	25	41	52	44	123	8	59	30
BRIDGE GLACIER (LOWER)	1C39	1400	05	138	326	330	224	456	204	321*	8
BRALORNE	1C14	1450	05	38	78	96	48	158	48	90	8
BOSS MOUNTAIN MINE	1C20P	1460	01	-	191	330	233	461	233	320	9
LAC LE JEUNE (UPPER)	1C25	1460	28	32	57	84	58	146	10	75	30
BRENDA MINE	2F18P	1460	01	-	100	230	-	304	107	186	8
BARKERVILLE	1A03P	1520	01	-	68	150	90	312	90	168	22

YANKS PEAK EAST	1C41P	1670	01	-	199	375	296	491	296	422	6
GREEN MOUNTAIN	1C12P	1780	01	-	354	573	268	707	268	440	9
MCGILLIVRAY PASS	1C05	1800	05	107	266	301	191	458	191	260	10
MISSION RIDGE	1C18P	1850	01	-	168	302	165	659	148	272	16
DOWNTON LAKE (UPPER)	1C38	1890	05	169	416	602	324	690	294	425	8
TYAUGHTON CREEK (NORTH)	1C40	1950	05	110	264	-	152	364	152	175	7
BRALORNE (UPPER)	1C37	1980	05	104	264	318	244	504	195	368	8

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## LOWER FRASER

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
WOLVERINE CREEK	1D13	300	01	17	24	108	60	193	0	70*	26
DISAPPOINTMENT LAKE	1D18P	1040	06	-	490P	-	-	1304	487	922*	3
DICKSON LAKE	1D16	1070	06	117	446	668	408	1110	360	732*	10
DOG MOUNTAIN	3A10	1080	02	110	320	745	324	897	96	480	16
BEAVER PASS	WA12	1120	26	84	137	381	122	615	122	337*	6
KLESILKWA	3D03A	1130	06	23	64	107	64	386	0	185	12
SPUZZUM CREEK	1D19P	1180	01	-	409	731	394	840	394	672*	4

STAVE LAKE	1D08	1210	05	151	516	735	362	976	112	630	12
WAHLEACH LAKE	1D09	1400	06	54	143	300	220	417	46	260	16
WAHLEACH LAKE	1D09P	1400	01	-	235	494	354	777	259	520	10
NAHATLATCH RIVER	1D10	1520	06	166	549	-	291	975	219	600	10
EASY PASS	WA13	1580	Not Available			-	-	1651	229	755*	20
CHILLIWACK RIVER	1D17P	1600	01	-	383	776	409	1165	409	681*	10
GREAT BEAR	1D15P	1660	01	-	424	870	424	954	424	808	10
TENQUILLE LAKE	1D06	1680	30	167	404	645	357	875	205	550	25
TENQUILLE LAKE	1D06P	1680	01	-	390	623	285	623	285	454*	2

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

\* - PERIOD OF RECORD AVERAGE

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### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FREEZEOUT CREEK TRAIL	WA11	1070	27	36	41	79	66	259	66	147*	6
BEAVER PASS	WA12	1120	26	84	137	381	122	615	122	337*	6
KLESILKWA	3D03A	1130	06	23	64	107	64	386	0	185	12
HARTS PASS	WA09	1980	28	150	287	643	315	744	315	563*	4
HARTS PASS	WA09P	1980	01	-	300	508	282	737P	282	486*	5

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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# THOMPSON

*January 1, 2003*

## NORTH THOMPSON

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
BLUE RIVER	1E01B	670	31	30	50	154	-	263	69	160	16
COOK CREEK	1E14P	1280	01	-	101	240	-	255	240	248*	2
BOSS MOUNTAIN MINE	1C20P	1460	01	-	191	330	233	461	233	320	9
MOUNT COOK	1E02P	1550	01	-	469	694	-	694	694	694*	1
AZURE RIVER	1E08P	1620	01	-	356	660	390	780	390	620	6
KOSTAL LAKE	1E10P	1770	01	-	271	463	346	590	303	453	18
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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## SOUTH THOMPSON

## Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
MONASHEE PASS	2E01	1370	Not Measured		134	99	239	84	165	22	
KIRBYVILLE LAKE	2A25	1750	Not Measured		714	351	854	351	620	19	
PARK MOUNTAIN	1F03P	1890	01	-	321	455	256	632	256	427	17
ENDERBY	1F04	1900	29	149	360	600A	301	742	292	495	27
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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## MIDDLE FRASER

## Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
PUNTZI MOUNTAIN	1C22	940	27	2	2	22	22	106	0	40	30
BIG CREEK	1C21	1140	29	9	10	18	30	62	10	36	16
GRANITE MOUNTAIN	1C33	1150	02	16	26	86	76	158	43	100	10
LAC LE JEUNE (LOWER)	1C07	1370	28	25	41	52	44	123	8	59	30
BRIDGE GLACIER (LOWER)	1C39	1400	05	138	326	330	224	456	204	321*	8

BRALORNE	1C14	1450	05	38	78	96	48	158	48	90	8
BOSS MOUNTAIN MINE	1C20P	1460	01	-	191	330	233	461	233	320	9
LAC LE JEUNE (UPPER)	1C25	1460	28	32	57	84	58	146	10	75	30
BRENDA MINE	2F18P	1460	01	-	100	230	-	304	107	186	8
BARKERVILLE	1A03P	1520	01	-	68	150	90	312	90	168	22
YANKS PEAK EAST	1C41P	1670	01	-	199	375	296	491	296	422	6
GREEN MOUNTAIN	1C12P	1780	01	-	354	573	268	707	268	440	9
MCGILLIVRAY PASS	1C05	1800	05	107	266	301	191	458	191	260	10
MISSION RIDGE	1C18P	1850	01	-	168	302	165	659	148	272	16
DOWNTON LAKE (UPPER)	1C38	1890	05	169	416	602	324	690	294	425	8
TYAUGHTON CREEK (NORTH)	1C40	1950	05	110	264	-	152	364	152	175	7
BRALORNE (UPPER)	1C37	1980	05	104	264	318	244	504	195	368	8

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# COLUMBIA

*January 1, 2003*

## UPPER COLUMBIA

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
DOWNIE SLIDE (LOWER)	2A27	980	06	74	166	-	196	504	190	320	17
GLACIER	2A02	1250	31	92	190	284	188	519	147	328	32
VERMONT CREEK	2A19	1520	05	70	140	206	91	328	91	230	18
AZURE RIVER	1E08P	1620	01	-	356	660	390	780	390	620	6
DOWNIE SLIDE (UPPER)	2A29	1630	06	208	606	770	370	1022	370	690	17
KICKING HORSE	2A07	1650	30	38	66	107	-	257	87	175	23
KIRBYVILLE LAKE	2A25	1750	Not Measured			714	351	854	351	620	19
MOUNT REVELSTOKE	2A06P	1830	01	-	433	616	317	835	317	599	10
FIDELITY MOUNTAIN	2A17	1870	29	152	350	635A	349	1228	334	617	28
BEAVERFOOT	2A11	1890	05	33	56	116	55	215	55	120	18

KEYSTONE CREEK	2A18	1890	06	120	308	449	217	577	217	400	18
BUSH RIVER	2A23	1920	Not Measured			510	243	722	216	442	19
GOLDSTREAM	2A16	1920	06	158	414	660	355	906	355	598	18
MOUNT ABBOT	2A14	1980	30	172	386	651	298	1065	298	615	18
MOLSON CREEK	2A21P	1980	01	-	349	649	322	1072	318	558	22
SUNBEAM LAKE	2A22	2010	Not Measured			489	243	767	243	475	19

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

## LOWER COLUMBIA

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FERGUSON	2D02	880	28	54	93	215	168	409	117	275	23
FARRON	2B02A	1220	01	53	90	159	100	330	40	155	18
MONASHEE PASS	2E01	1370	Not Measured			134	99	239	84	165	22
WHATSHAN (UPPER)	2B05	1480	Not Measured			289	169	543	169	340	18
BARNES CREEK	2B06	1620	Not Measured			233	160	363	146	260	17
BARNES CREEK	2B06P	1620	01	-	236	248	158	409	158	278	10
ST. LEON CREEK	2B08	1800	Not Measured			618	325	1164	325	613	15

ST. LEON CREEK	2B08P	1800	01	-	330	529	221	637	221	569	7
KOCH CREEK	2B07	1860	Not Measured			419	234	452	170	365	14
RECORD MOUNTAIN	2B09	1890	Not Measured			504	188	538	134	320	18
EAST CREEK	2D08P	2030	01	-	214	413	206	858	206	470	21

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

Banner

# KOOTENAY

*January 1, 2003*

## EAST KOOTENAY

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FERNIE EAST	2C07	1250	30	36	41	144	80	330	28	142	27
MARBLE CANYON	2C05	1520	30	42	64	136	74	300	74	184	28
SULLIVAN MINE	2C04	1550	30	58	95	113	71	226	29	138	17
WEASEL DIVIDE	MT02	1660	30	91	185	414	162	691	162	378*	17
BANFIELD MOUNTAIN	MT05P	1710	01	-	180	216	145	340	112	200*	5
MOUNT JOFFRE	2C16	1750	Not Measured			133	-	364	86	180	16
MORRISSEY RIDGE	2C09Q	1800	01	-	176	319	123	706	123	331	19
MOYIE MOUNTAIN	2C10P	1930	01	-	128	176	143	354	76	180	23
HAWKINS LAKE	MT06P	1970	01	-	264	312	145	419	145	250*	5

THUNDER CREEK	2C17	2010	05	48	85	101	61	276	61	135	18
FLOE LAKE	2C14	2090	05	108	245	405	181	747	181	425	18
FLOE LAKE	2C14P	2090	01	-	221	360	173	502	173	363	7
HIGHWOOD SUMMIT (BUSH)	AL02	2210	Not Measured			-	-	399	97	228*	11
MOUNT ASSINIBOINE	2C15	2230	05	90	182	293	111	567	111	290	19
SUNSHINE VILLAGE	AL05	2230	02	84	183	272	137	389	137	240*	6

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

## WEST KOOTENAY

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FERGUSON	2D02	880	28	54	93	215	168	409	117	275	23
NELSON	2D04	930	30	47	85	212	121	366	66	175	43
CHAR CREEK	2D06	1310	01	101	232	268	144	480	110	250	19
BUNCHGRASS MEADOW	WA01P	1520	01	-	343	422	218	488	218	343*	5
GRAY CREEK (LOWER)	2D05	1550	06	72	166	-	-	372	69	195	20
KOCH CREEK	2B07	1860	Not Measured			419	234	452	170	365	14
MOUNT TEMPLEMAN	2D09	1860	Not Measured			486	277	902	277	530	16

GRAY CREEK (UPPER)	2D10	1910	06	112	282	-	-	612	222	385	11
EAST CREEK	2D08P	2030	01	-	214	413	206	858	206	470	21
REDFISH CREEK	2D14P	2104	01	-	401	686	-	686	686	686*	1

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

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**KETTLE, OKANAGAN and SIMILKAMEEN***January 1, 2003***KETTLE****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FARRON	2B02A	1220	01	53	90	159	100	330	40	155	18
MONASHEE PASS	2E01	1370	Not Measured			134	99	239	84	165	22
GRANO CREEK	2E07P	1860	01	-	199	315	143	315	143	232*	5
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											

**OKANAGAN****Snow Survey Measurements**

WATER EQUIVALENT (mm)

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	2003	2002	2001	Max.	Min.	Normal	No. Years Record
SUMMERLAND RESERVOIR	2F02	1280	30	27	42	104	64	198	46	114	39
BRENDA MINE	2F18P	1460	01	-	100	230	-	304	107	186	8
GREYBACK RESERVOIR	2F08	1550	06	41	116	162	84	181	56	115	20
ISINTOK LAKE	2F11	1680	30	13	16	74	85	196	16	86	37
MISSION CREEK	2F05P	1780	01	-	131	311	120	326	104	215	32
MOUNT KOBAN	2F12	1810	29	62	153	185	124	261	28	144	26
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											

## SIMILKAMEEN

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FREEZEOUT CREEK TRAIL	WA11	1070	27	36	41	79	66	259	66	147*	6
MISSEZULA MOUNTAIN	2G05	1550	29	18	21	86	74	197	54	113*	10
ISINTOK LAKE	2F11	1680	30	13	16	74	85	196	16	86	37
BLACKWALL PEAK	2G03P	1940	01	-	199	450	173	923	108	397	33
HARTS PASS	WA09	1980	28	150	287	643	315	744	315	563*	4
HARTS PASS	WA09P	1980	01	-	300	508	282	737P	282	486*	5
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

Banner

**COASTAL***January 1, 2003***SOUTH COASTAL****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
PALISADE LAKE	3A09P	880	Not Available		-	-	785	337	635*	3	
DOG MOUNTAIN	3A10	1080	02	110	320	745	324	897	96	480	16
GROUSE MOUNTAIN	3A01	1100	31	99	300	864	380	878	24	480	22
ORCHID LAKE	3A19	1190	06	180	625	-	498	1214	202	750	20
ORCHID LAKE	3A19P	1190	Not Available		841	505	1285	243	753*	17	
UPPER SQUAMISH RIVER	3A25P	1340	01	-	559	799	454	1072	454	730	11
NOSTETUKO RIVER	3A22P	1500	01	-	94	304	-	524	32	277*	11
UPPER MOSELY CREEK	3A24P	1650	01	-	139	184	149	491	85	192*	14

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

**VANCOUVER ISLAND****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
WOLF RIVER (LOWER)	3B19	640	05	63	174	234	-	326	0	100	13
WOLF RIVER (MIDDLE)	3B18	1070	05	95	300	284	200	590	0	270	14
FORBIDDEN PLATEAU	3B01	1130	05	189	625	662	531	1287	0	630	20
JUMP CREEK	3B23P	1160	01	-	386	589	266	806	244	428	7
WOLF RIVER (UPPER)	3B17P	1490	01	-	625	582	378	1057	150	595	14

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

**NORTH COASTAL****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	

TAHTSA LAKE	1B02P	1300	01	-	369	957	509	957	475	703	10
BURNT BRIDGE CREEK	3C08P	1330	01	-	131	585	-	600	400A	510*	4

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

Banner

**NORTH EAST***January 1, 2003***PEACE****Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
FORT ST. JOHN A	4A25	690	01	7	18	36	28	134	14	57	27
MACKENZIE A	4A19	700	31	19	26	84	40	283	40	116	29
PACIFIC LAKE	1A11	770	26	31	56	183	150	476	150	310	19
PHILIP LAKE	4A13	980	03	42	93	163	92	268	64	150	20
WARE (LOWER)	4A04	980	04	31	52	174	90	240	63	100	12
AIKEN LAKE	4A30P	1040	01	-	175A	-	120	262	86	138	14
TUTIZZI LAKE	4A06	1070	03	55	98	191	94	200	85	135	12
TSAYDAYCHI LAKE	4A12	1160	03	67	165	310	196	393	128	215	19
KAZA LAKE	1A12	1190	03	59	119	219	156	371	113	190	17
FREDRICKSON LAKE	4A10	1310	03	35	54	148	127	250	102	130	13
PULPIT LAKE	4A09	1310	04	71	130	300	224	398	182	220	14
PULPIT LAKE	4A09P	1310	01	-	158	287	247	344	158	242	11
PINE PASS	4A02P	1400	01	-	241	680	460	1016	460	543	13

SIKANNI LAKE	4C01	1400	04	26	44	199	120	257	65	145	19
TRYGVE LAKE	4A11	1400	04	67	135	-	154	299	126	195	15
PINE PASS	4A02	1430	05	137	349	799	606	988	314	620	21
MORFEE MOUNTAIN	4A16	1450	05	92	226	468	349	710	349	450	7
LADY LAURIER LAKE	4A07	1460	05	66	140	427	233	472	154	270	19
MOUNT SHEBA	4A18	1490	26	50	106	450	244	793	244	400	14
GERMANSEN (UPPER)	4A05	1500	03	57	108	251	155	364	99	194	20
MOUNT STEARNS	4A21	1500	04	12	24	138	50	151	45	80	13
JOHANSON LAKE	4B02	1540	03	52	109	201	-	282	90	160	19
MONKMAN CREEK	4A20	1550	Not Measured			294	145	546	145	270	11
BULLMOOSE CREEK	4A31	1570	31	40	80	308	160	493	94	260	14
WARE (UPPER)	4A03	1570	04	35	64	224	121	248	97	145	13
KWADACHA RIVER	4A27P	1620	01	-	86	210	128	307	109	185*	16

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

## LIARD

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	

FORT NELSON A	4C05	380	01	26	47	85	26	112	20	59	35
DEASE LAKE	4C03	820	Not Available			61	42	150	20	71	36
DEADWOOD RIVER	4C09P	1300	Not Measured			79	-	211	34	82*	8
SIKANNI LAKE	4C01	1400	04	26	44	199	120	257	65	145	19

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

Banner

# NORTH WEST

*January 1, 2003*

## STIKINE/TAKU

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
DEASE LAKE	4C03	820	Not Available		61	42	150	20	71	36	
KINASKAN LAKE	4D11P	1020	Not Measured		221	128	378	104	191*	12	
TUMEKA CREEK	4D10P	1220	01	-	180	311	-	591	186	357*	10
WADE LAKE	4D14P	1370	01	-	105	184	166	344	91	206*	11
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											

## YUKON

### Snow Survey Measurements

WATER EQUIVALENT (mm)



Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	2003	2002	2001	Max.	Min.	Normal	No. Years Record
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											

## SKEENA/NASS

### Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2003	2002	2001	Max.	Min.	Normal	
TERRACE A	4B13A	180	27	16	20	100	89	162	0	77*	20
GRANDUC MINE	4B12P	790	01	-	656	1065	-	1065	1065	1065*	1
CEDAR-KITEEN	4B18P	885	01	-	83	338	229	338	229	284*	2
KAZA LAKE	1A12	1190	03	59	119	219	156	371	113	190	17
LU LAKE	4B15P	1310	01	-	41	206	94	206	86	130*	5
TSAI CREEK	4B17P	1360	01	-	390	904	405	904	405	620*	4
TRYGVE LAKE	4A11	1400	04	67	135	-	154	299	126	195	15
HUDSON BAY MTN.	4B03A	1480	31	64	179	359	199	470	135	283	27
SHEDIN CREEK	4B16P	1480	01	-	266	551	454	551	353	443*	7
JOHANSON LAKE	4B02	1540	03	52	109	201	-	282	90	160	19
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