

Banner

Snowpack and Water Supply Outlook for British Columbia

February 1, 2003

Note: Some climate data unavailable at publishing date.

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.

[Province-Wide Synopsis](#)

Basin Data and Graphs

[-Upper Fraser](#)

[-Mid and Lower Fraser](#)

[-Thompson](#)

[-Columbia](#)

[-Kootenay](#)

[-Okanagan, Kettle, and Similkameen](#)

[-Coastal](#)

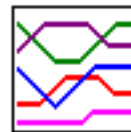
[-NorthEast](#)

[-NorthWest](#)

[groundwater graphs](#)

[2003 Snow Pillow graphs](#)

Province-wide Synopsis



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

Manual snow surveys have been conducted at 125 BC snow courses. These, together with data from 59 BC snow pillows, 16 out of province snow survey locations, and meteorological and streamflow data from Environment Canada, have been used in making the following analyses.

Snowpack

After a very late start to snow accumulation, mid and upper elevation snowpacks throughout BC still vary from below to far below normal for February 1. The Upper Fraser, and Similkameen have around half of their normal snowpacks. Most of the rest of the province is in the 60% to 75% of normal snowpack range, with Vancouver Island and the far north in the 80% to 90% of normal range. Due to generally well above normal temperatures over the last three months, lower elevation snow nearly everywhere is shallow. One example of this is the low-elevation Fraser snow water index, which has improved but is still very low at 41% of normal for this date.

Weather

As indicated by Environment Canada valley bottom weather stations, weather all over the province has been much warmer than normal since November. January mean monthly temperatures varied from 2 or 3 degrees C above normal on the

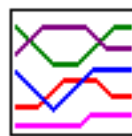
[Corrected or
previously
unpublished data](#)

South Coast and far northern BC, to around 5 degrees C above normal in central areas. Cumulative precipitation since November has been generally less than normal through most of the province, with the exception of the far north, where heavier January snowfall now has winter precipitation totals at near to above normal.

Outlook

By February 1 each year, on average two thirds of the peak snowpack for the winter has fallen. This means that the weather patterns during the next three months or so still can have a significant effect on this year's maximum snowpack. However, if this winter's El Nino (drier & warmer) conditions persist through the remainder of the winter, freshet volumes will probably be below normal this spring.

Upper Fraser & Nechako Basins



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

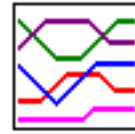
February 1

January precipitation at Prince George was higher than usual during the last half of January, however cumulative totals since November 1 are still far below normal. In the Upper Fraser, the snow water equivalent index has improved slightly from 40% of normal January 1, to 52% of normal for February 1. In the Nechako basin, the snow water index remains around 60% of normal for this date. Nearly all readings in these basins are minimums of record. While this shortage of snow is general for low and higher elevations, it is slightly more pronounced at lower elevations due to the continued warmer temperatures. The mean monthly temperature at Prince George was again around 5 degrees C above normal during January.

Due to the drier winter overall, regional streamflows, as represented by the mean monthly flow in the Fraser River at Marguerite, continued to be below normal during January.

[Top](#)

Middle and Lower Fraser



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

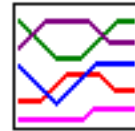
February 1

Both the Middle and Lower Fraser basins have well below normal snowpacks for February 1, with both snow water indexes at 66% of normal. No climate data is yet available for the index climate stations.

Regional streamflows as represented by the mean monthly flow in the Fraser River at Hope, continued to be well below normal during January, as a result of the drier than normal weather of the previous months through much of the Fraser basin.

[• Top](#)

Thompson Basin



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

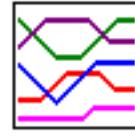
February 1

The Thompson basin continued to be warmer than usual during January, with a mean monthly temperature over 5 degrees C above normal. These warmer temperatures have been a contributor to a below normal snowpack which has around half the normal snow at lower elevation survey sites. In the North Thompson near normal January precipitation increased the mid and upper elevation snowpack from last month's 61% to 72% of the normal snow water index for February 1. In the South Thompson precipitation, as measured at Kamloops, was below normal, however the February 1 snow water equivalent index rose slightly from 75% last month to 77% of normal.

Streamflows, as measured by mean monthly flow in the Thompson at Spences Bridge, were 86% of normal during January, recovered slightly from well below normal flows of the previous two dry months.

[• Top](#)

Columbia Basin



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

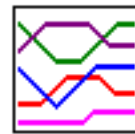
February 1

Like much of the interior, the mean monthly temperature in the Columbia basin was well above normal (around 4 degrees C) during January. Precipitation was below normal during the month, resulting in a slight drop in the cumulative precip total since November to 85% of normal. The snow water index, which had been at a well below normal 63% last month, has risen to 72% of normal for February 1.

Streamflows, as represented by the mean monthly flow in the Columbia River at Donald, were around 60% above normal during January, possibly due to warmer temperatures and runoff of some low elevation snow.

[Top](#)

Kootenay Basin



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

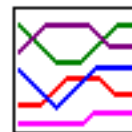
February 1

While the mean monthly temperature at Cranbrook was 4.5 degrees above normal, it was cool enough that the more near normal precipitation has increased last month's well below normal snowpacks significantly. The mid to upper elevation snow water index for the Kootenay basin has risen to 72% of normal for February 1, however low elevation snow may be somewhat less than that figure.

Streamflows, as measured by the mean monthly flow in the Kootenay River at Ft Steele, were up slightly from last month's far below normal flows to 78% of normal during January.

[Top](#)

Okanagan, Kettle, and Similkameen Basins



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

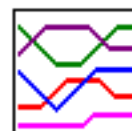
February 1

While January precipitation throughout this region was near normal, cumulative total precipitation since November is still well below normal in the Okanagan and far below normal in the Similkameen. With the warmer than normal temperatures persisting, low elevation snow is around half of normal for February 1. The mid to upper elevation snow water index for the Okanagan is 71% of normal, while the drier Similkameen has an index of only 52% of normal for February 1. An anomaly in BC is the Kettle valley, which appears to have a near normal snowpack.

Streamflows in the region, as represented by the monthly inflows to Okanagan Lake, were above normal during January, possibly due to runoff of low elevation snow caused by warmer temperatures.

[• Top](#)

Vancouver Island & Coastal Regions



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

February 1

Despite higher precipitation than most of BC through the winter so far, (just below normal for the South Coast, and above normal for Vancouver Island), the higher than normal temperatures have resulted in below normal snowpacks for February 1. The snow water index for the South Coast is only 61% of normal, while the Vancouver Island snow index is higher at 80% of normal. Mid coast snowpacks, from limited data, appear to be well below normal for this date.

Streamflows, as represented by the inflows to Upper Campbell Lake, were 58% above normal during January. As the snowline is higher than usual, this is probably due to runoff from lower and even middle elevations.

[• Top](#)

North East Region



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

February 1

A month ago both the Peace and Liard basins had half or less of their normal snowpacks, however much heavier than normal snowfall during the last half of January has improved the snowpacks dramatically. The snow water index for the Peace basin is now at 71% of normal, while the Liard basin snow index for February 1 has risen from 46% to 80% of normal.

Streamflows in the region, as represented by mean monthly inflows to Williston Lake, were above normal during January, due to the higher precipitation and slightly warmer than normal temperatures.

[Top](#)

NorthWest Region



[Data](#)
[Graphs](#)



[Snow Survey Data](#)
[Measurements](#)

February 1

While climate data is not in yet, it appears precipitation in the Skeena basin was near to above normal during January. The snow water index for the Skeena basin rose slightly to 74% of normal for February 1. In the Stikine basin, precipitation was twice normal during the last month, bringing cumulative total precipitation since November to near normal. The snow water index for the Stikine is 90% of February 1 normal.

Streamflows in the region, as measured by the mean monthly flow in the Skeena River at Usk, was well above normal during January, possibly due to higher than normal temperatures overall during the month.

[Top](#)

Banner

UPPER and MIDDLE FRASER

February 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	
PRINCE GEORGE A	1A10	690	28	34	56	79	46	224	46	114	41
PACIFIC LAKE	1A11	770	28	89	179	370	216	679	216	451	35
BURNS LAKE	1A16	800	30	40	56	92	60	232	44	120	32
CANOE RIVER	2A01A	910	27	16	32	80	45	140	39	90	28
PHILIP LAKE	4A13	980	29	84	184	208	118	353	118	202	36
HEDRICK LAKE	1A14	1100	28	118	248	421	252	823	252	500	35
HEDRICK LAKE	1A14P	1100	01	-	394	604	356	649	356	536*	3
BIRD CREEK	1A23	1180	04	28	68	106	68	176	66	109*	12
KAZA LAKE	1A12	1190	29	96	193	279	213	440	125	239	33
MOUNT SHEBA	4A18	1490	28	124	299	613	326	918	317	570	33
BARKERVILLE	1A03P	1520	01	-	116	206	150	351	150	253	24
KNUDSEN LAKE	1A15	1580	28	136	284	581	290	899	290	584	32
MC BRIDE (UPPER)	1A02	1580	29	81	178	255	140	503	140	296	49
REVOLUTION CREEK	1A17P	1690	01	-	333	625	305	930	305	574	17

LONGWORTH (UPPER)	1A05	1740	28	105	236	632	-	890A	315	556	29
MARMOT JASPER	AL12	1830	03	40	71	155	86	191	86	156*	5
YELLOWHEAD	1A01P	1860	01	-	338	428	233	596	233	455	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	04	26	48	55	54	224	35	94	35
TAHTSA LAKE	1B02	1300	04	202	617	1123	738	1209	508A	821	48
TAHTSA LAKE	1B02P	1300	01	-	613	1177	829	1177	652	903	9
KIDPRICE LAKE	4B01	1370	04	146	420	953	595	953	440	638	45
MOUNT PONDOSY	1B08P	1400	01	-	326	747	512	750	393	578	10
MOUNT WELLS	1B01	1490	04	67	188	443	235	549B	213	385	19
NUTLI LAKE	1B07	1490	04	85	227	484	275	579	275	392*	11
MOUNT WELLS	1B01P	1490	01	-	213	-	299	555	296	426	9
MOUNT SWANNELL	1B06	1620	04	41	88	256	163	382B	125	217*	14

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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	30	4	16	34	26	126	0	58	33
NAZKO	1C08	1070	Not Available			41	45	137B	6A	75	26
BIG CREEK	1C21	1140	30	7	10	32	33	100B	0	52	30
GRANITE MOUNTAIN	1C33	1150	03	35	59	131	90	217	77	145	10
LAC LE JEUNE (LOWER)	1C07	1370	27	25	59	80	62	208	25	81	46
BRIDGE GLACIER (LOWER)	1C39	1400	02	127	368	482	-	688	414	503*	7
BRALORNE	1C14	1450	02	38	92	122	74	338	0	138	32
SHOVELNOSE MOUNTAIN	1C29	1450	31	48	122	177	126	307	84	202	23
BOSS MOUNTAIN MINE	1C20P	1460	01	-	285	424	289	574	289	440	9
LAC LE JEUNE (UPPER)	1C25	1460	27	34	89	103	78	177	13	105	30
BRENDA MINE	2F18P	1460	Not Measured			309	148	368	148	264	10
BARKERVILLE	1A03P	1520	01	-	116	206	150	351	150	253	24
MOUNT TIMOTHY	1C17	1660	27	38	92	209	151	384	103	232	36

YANKS PEAK EAST	1C41P	1670	01	-	304	521	409	761	409	595	6
GREEN MOUNTAIN	1C12P	1780	01	-	585	820	393	948	393	605	9
MCGILLIVRAY PASS	1C05	1800	02	115	345	464	265	645	150	403	51
MISSION RIDGE	1C18P	1850	01	-	256	448	232	794	232	424	16
DOWNTON LAKE (UPPER)	1C38	1890	02	163	496	706	378	980	378	610	8
TYAUGHTON CREEK (NORTH)	1C40	1950	Not Measured			-	182	654	182	265	6
BRALORNE (UPPER)	1C37	1980	02	100	306	506	346	724	346	465	8

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Banner

MIDDLE and LOWER FRASER*February 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	30	4	16	34	26	126	0	58	33
NAZKO	1C08	1070	Not Available			41	45	137B	6A	75	26
BIG CREEK	1C21	1140	30	7	10	32	33	100B	0	52	30
GRANITE MOUNTAIN	1C33	1150	03	35	59	131	90	217	77	145	10
LAC LE JEUNE (LOWER)	1C07	1370	27	25	59	80	62	208	25	81	46
BRIDGE GLACIER (LOWER)	1C39	1400	02	127	368	482	-	688	414	503*	7
BRALORNE	1C14	1450	02	38	92	122	74	338	0	138	32
SHOVELNOSE MOUNTAIN	1C29	1450	31	48	122	177	126	307	84	202	23
BOSS MOUNTAIN MINE	1C20P	1460	01	-	285	424	289	574	289	440	9
LAC LE JEUNE (UPPER)	1C25	1460	27	34	89	103	78	177	13	105	30
BRENDA MINE	2F18P	1460	Not Measured			309	148	368	148	264	10

BARKERVILLE	1A03P	1520	01	-	116	206	150	351	150	253	24
MOUNT TIMOTHY	1C17	1660	27	38	92	209	151	384	103	232	36
YANKS PEAK EAST	1C41P	1670	01	-	304	521	409	761	409	595	6
GREEN MOUNTAIN	1C12P	1780	01	-	585	820	393	948	393	605	9
MCGILLIVRAY PASS	1C05	1800	02	115	345	464	265	645	150	403	51
MISSION RIDGE	1C18P	1850	01	-	256	448	232	794	232	424	16
DOWNTON LAKE (UPPER)	1C38	1890	02	163	496	706	378	980	378	610	8
TYAUGHTON CREEK (NORTH)	1C40	1950	Not Measured			-	182	654	182	265	6
BRALORNE (UPPER)	1C37	1980	02	100	306	506	346	724	346	465	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	31	27	68	104	108	270	10A	106*	27
SUMMALLO RIVER WEST	3D01C	790	Not Available			230	150	368	0	242	11
CALLAGHAN CREEK	3A20	1040	31	97	328	560	424	879	50	577	19
DISAPPOINTMENT LAKE	1D18P	1040	01	-	492P	1184P	570P	1597	570P	1124*	4

DICKSON LAKE	1D16	1070	04	126	542	1110A	478	1220	398	918	10
DOG MOUNTAIN	3A10	1080	29	56	237	971	377	1187Z	316	731	19
BEAVER PASS	WA12	1120	29	102	353	594	196	922	36	502*	34
KLESILKWA	3D03A	1130	04	19	47	236	57	508	0	257	48
SPUZZUM CREEK	1D19P	1180	01	-	638	1174	593	1804E	593	1226*	4
STAVE LAKE	1D08	1210	04	148	608	920	526	1430	163	907	32
WAHLEACH LAKE	1D09	1400	04	64	199	418	247	815	33	396	34
WAHLEACH LAKE	1D09P	1400	01	-	381	838	472	1036	472	780	10
NAHATLATCH RIVER	1D10	1520	04	190	736	999	423	1359	262	893	29
EASY PASS	WA13	1580	Not Available			-	-	2184	279	1160*	30
CHILLIWACK RIVER	1D17P	1600	01	-	638	1178	656	1668	656	1063*	11
GREAT BEAR	1D15P	1660	01	-	791	1358	608	1391	608	1143	11
TENQUILLE LAKE	1D06	1680	31	204	673	895	550	1206	241	769	31
TENQUILLE LAKE	1D06P	1680	01	-	623	881	450	881	450	666*	2
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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E - ESTIMATED BASED ON AREAL AVERAGE											
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SKAGIT

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	
SUMALLO RIVER WEST	3D01C	790	Not Available			230	150	368	0	242	11
FREEZEOUT CREEK TRAIL	WA11	1070	28	41	127	180	99	462	13	225*	33
BEAVER PASS	WA12	1120	29	102	353	594	196	922	36	502*	34
KLESILKWA	3D03A	1130	04	19	47	236	57	508	0	257	48

HARTS PASS	WA09	1980	27	180	526	1006	404	1328	246	782*	48
HARTS PASS	WA09P	1980	01	-	533	752	371	1005P	371	698*	5
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED											
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Banner

THOMPSON

February 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	02	59	144	178	198	340	98	250	19
KNOUFF LAKE	1E05	1200	31	31	60	134	86	229	38	114	43
COOK CREEK	1E14P	1280	01	-	248	356	308	413	308	359*	3
COOK FORKS	1E06	1390	31	168	414	604	363	874	353	610	29
BOSS MOUNTAIN MINE	1C20P	1460	01	-	285	424	289	574	289	440	9
MOUNT COOK	1E02P	1550	01	-	724	938	600	938	600	769*	2
MOUNT COOK	1E02A	1580	Not Available			840	551	1237	536	866	27
AZURE RIVER	1E08P	1620	01	-	578	855	506	998	506	835	6
ADAMS RIVER	1E07	1720	01	122	334	528	334	654	285	452	22

KOSTAL LAKE	1E10P	1770	01	-	426	591	441	764	415	620	18
NORTH CLEMINA CREEK	1E13	1860	28	134	396	659	380	796	315	532	14

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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	
ANGLEMONT	1F02	1190	28	52	133	224	227	483	131	274	43
ABERDEEN LAKE	1F01A	1310	28	30	63	95A	81	193	48	119	48
MONASHEE PASS	2E01	1370	04	69	167	225	141	364	122	245	43
ADAMS RIVER	1E07	1720	01	122	334	528	334	654	285	452	22
KIRBYVILLE LAKE	2A25	1750	05	200	659	917	516	1160	381	810	27
SILVER STAR MOUNTAIN	2F10	1840	28	116	358	648	287	721	229	507	44
PARK MOUNTAIN	1F03P	1890	01	-	463	644	331	867	331	602	18
ENDERBY	1F04	1900	29	181	550	809	350	932	348	691	40

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	30	4	16	34	26	126	0	58	33
NAZKO	1C08	1070	Not Available			41	45	137B	6A	75	26
BIG CREEK	1C21	1140	30	7	10	32	33	100B	0	52	30
GRANITE MOUNTAIN	1C33	1150	03	35	59	131	90	217	77	145	10
LAC LE JEUNE (LOWER)	1C07	1370	27	25	59	80	62	208	25	81	46
BRIDGE GLACIER (LOWER)	1C39	1400	02	127	368	482	-	688	414	503*	7
BRALORNE	1C14	1450	02	38	92	122	74	338	0	138	32
SHOVELNOSE MOUNTAIN	1C29	1450	31	48	122	177	126	307	84	202	23
BOSS MOUNTAIN MINE	1C20P	1460	01	-	285	424	289	574	289	440	9
LAC LE JEUNE (UPPER)	1C25	1460	27	34	89	103	78	177	13	105	30
BRENDA MINE	2F18P	1460	Not Measured			309	148	368	148	264	10
BARKERVILLE	1A03P	1520	01	-	116	206	150	351	150	253	24
MOUNT TIMOTHY	1C17	1660	27	38	92	209	151	384	103	232	36
YANKS PEAK EAST	1C41P	1670	01	-	304	521	409	761	409	595	6
GREEN MOUNTAIN	1C12P	1780	01	-	585	820	393	948	393	605	9

MCGILLIVRAY PASS	1C05	1800	02	115	345	464	265	645	150	403	51
MISSION RIDGE	1C18P	1850	01	-	256	448	232	794	232	424	16
DOWNTON LAKE (UPPER)	1C38	1890	02	163	496	706	378	980	378	610	8
TYAUGHTON CREEK (NORTH)	1C40	1950	Not Measured			-	182	654	182	265	6
BRALORNE (UPPER)	1C37	1980	02	100	306	506	346	724	346	465	8

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

COLUMBIA

February 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	
CANOE RIVER	2A01A	910	27	16	32	80	45	140	39	90	28
DOWNIE SLIDE (LOWER)	2A27	980	05	121	326	426	290	740	256	509	21
GLACIER	2A02	1250	30	134	362	440	311	828	241	494	62
FIELD	2A03A	1280	30	34	54	72	62	233	46	133	63
SUNWAPTA FALLS	AL11	1400	03	45	109	81	65	254	48B	143*	30
VERMONT CREEK	2A19	1520	Not Available			269	134	574	102	320	33
AZURE RIVER	1E08P	1620	01	-	578	855	506	998	506	835	6
DOWNIE SLIDE (UPPER)	2A29	1630	05	235	806	1022	534	1422	466	933	21
KICKING HORSE	2A07	1650	30	69	146	167	102	384	102	248	56
KIRBYVILLE LAKE	2A25	1750	05	200	659	917	516	1160	381	810	27
MOUNT REVELSTOKE	2A06P	1830	01	-	637	892	-	1140	511	850	9

NORTH CLEMINA CREEK	1E13	1860	28	134	396	659	380	796	315	532	14
FIDELITY MOUNTAIN	2A17	1870	29	189	478	856	430	1376	430	867	40
BEAVERFOOT	2A11	1890	Not Available			130	78	249	78	154	35
KEYSTONE CREEK	2A18	1890	05	128	393	608	292	866	290	548	33
BUSH RIVER	2A23	1920	05	146	425	678	325	902	292	598	35
GOLDSTREAM	2A16	1920	05	208	613	882	504	1136	460	793	34
NIGEL CREEK	AL10	1920	03	81	173	287	128	528	94B	298*	30
MOLSON CREEK	2A21P	1980	01	-	544	877	435	1155	417	760	21
MOUNT ABBOT	2A14	1980	31	198	570	946	396	1209	396	842	44
SUNBEAM LAKE	2A22	2010	05	166	484	691	348	886	348	642	35
MIRROR LAKE	AL06	2030	30	48	96	234	79	348	79	215*	35
BOW SUMMIT II	AL07A	2080	29	68	132	310	130	480	86B	269*	22

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	31	108	278	342	237	616	237	420	31
BAIRD	WA02	980	28	46	127	180	130	295	20	151*	43

FARRON	2B02A	1220	03	79	210	209	134	346	63	232	29
MONASHEE PASS	2E01	1370	04	69	167	225	141	364	122	245	43
WHATSHAN (UPPER)	2B05	1480	04	136	399	-	266	759	249	479	30
BARNES CREEK	2B06	1620	04	117	313	351	224	612	196	365	35
BARNES CREEK	2B06P	1620	01	-	338	360	195	566	195	378	10
ST. LEON CREEK	2B08	1800	04	216	667	-	474	1247	474	878	32
ST. LEON CREEK	2B08P	1800	01	-	563	799	311	1092	311	755	8
KOCH CREEK	2B07	1860	Not Measured			-	287	708	203	501	32
RECORD MOUNTAIN	2B09	1890	02	161	530	577	216	802	117	482	28
EAST CREEK	2D08P	2030	01	-	383	596	274	1012	274	654	22

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

February 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	27	48	114	252	90	467	51	234	49
MARBLE CANYON	2C05	1520	Not Available			237	107	505	107	261	54
SULLIVAN MINE	2C04	1550	29	65	164	142	102	397	46	217	57
WEASEL DIVIDE	MT02	1660	29	109	343	610	234	858	185	544*	19
BANFIELD MOUNTAIN	MT05P	1710	01	-	254	356	180	475	180	352*	5
MOUNT JOFFRE	2C16	1750	Not Available			266	96	439	96	265	29
MORRISSEY RIDGE	2C09Q	1800	01	-	330	470	172	886	172	495	19
MOYIE MOUNTAIN	2C10P	1930	01	-	225	330	179	499	104	267	22
HAWKINS LAKE	MT06P	1970	01	-	363	495	201	612	201	396*	5
ALLISON PASS	AL01	1980	28	72	181	267	133	521	133	333*	13

THUNDER CREEK	2C17	2010	Not Available			141	80	335	69	193	29
FLOE LAKE	2C14	2090	Not Available			569	239	811	239	548	31
FLOE LAKE	2C14P	2090	01	-	349	555	221	731	221	510	8
HIGHWOOD SUMMIT (BUSH)	AL02	2210	28	70	155	284	89	480	89	269*	23
MOUNT ASSINIBOINE	2C15	2230	Not Available			409	140	592	140	375	31
SUNSHINE VILLAGE	AL05	2230	04	110	259	445	150	678	150	412*	17

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	
DUNCAN LAKE NO. 2	2D07A	650	30	40	90	74	94	283	60	136*	12
FERGUSON	2D02	880	31	108	278	342	237	616	237	420	31
NELSON	2D04	930	03	82	234	271	147	508	79	276	64
CHAR CREEK	2D06	1310	02	124	364	384	177	650	117	381	37
BUNCHGRASS MEADOW	WA01P	1520	01	-	505	602	259	719	259	515*	5
GRAY CREEK (LOWER)	2D05	1550	05	80	221	-	217	511	127	326	52
KOCH CREEK	2B07	1860	Not Measured			-	287	708	203	501	32

MOUNT TEMPLEMAN	2D09	1860	Not Available			724	409	1115	409	748	33
GRAY CREEK (UPPER)	2D10	1910	05	132	386	-	301	792	268	527	32
EAST CREEK	2D08P	2030	01	-	383	596	274	1012	274	654	22
REDFISH CREEK	2D14P	2104	01	-	653	1024	-	1024	1024	1024*	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

Banner

COASTAL

February 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	01	-	238	-	-	790	700	745*	2
CHAPMAN CREEK	3A26	1022	31	146	540	980Z	-	1250	546	887	6
CALLAGHAN CREEK	3A20	1040	31	97	328	560	424	879	50	577	19
DOG MOUNTAIN	3A10	1080	29	56	237	971	377	1187Z	316	731	19
GROUSE MOUNTAIN	3A01	1100	29	77	322	1164	472	1530Z	50	762	53
ORCHID LAKE	3A19	1190	30	182	654	1210	656	1624	408	1141	24
ORCHID LAKE	3A19P	1190	01	-	921	1126	784	1859	491	1227*	16
UPPER SQUAMISH RIVER	3A25P	1340	01	-	911	1073	713	1510	713	1025	11
NOSTETUKO RIVER	3A22P	1500	01	-	210	409	-	628	203	429*	13

UPPER MOSELY CREEK	3A24P	1650	01	-	101	206	168	509	107	243*	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	04	42	162	254	140	528	0	248	30
TENNENT LAKE	3B22	950	05	116	474	-	638	880	202B	660	12
WOLF RIVER (MIDDLE)	3B18	1070	04	92	334	370	218	742	16	401	31
FORBIDDEN PLATEAU	3B01	1130	04	192	802	802	694	1640	42	955	47
JUMP CREEK	3B23P	1160	01	-	379	829	424	1251	206	710	7
WOLF RIVER (UPPER)	3B17P	1490	01	-	966	832	555	1371	501	881	13
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	1B02	1300	04	202	617	1123	738	1209	508A	821	48
TAHTSA LAKE	1B02P	1300	01	-	613	1177	829	1177	652	903	9
BURNT BRIDGE CREEK	3C08P	1330	01	-	240	746	349	746	349	603*	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

KETTLE, OKANAGAN and SIMILKAMEEN

February 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	03	79	210	209	134	346	63	232	29
GOAT CREEK	WA04	1220	28	58	140	99	94	224	20	132*	41
MONASHEE PASS	2E01	1370	04	69	167	225	141	364	122	245	43
SUMMIT G.S.	WA05	1400	28	79	198	122	130	244	41	146*	41
BIG WHITE MOUNTAIN	2E03	1680	03	106	274	380	178	483	178	339	37
GRANO CREEK	2E07P	1860	01	-	300	424	180	465	180	339*	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

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	
MC CULLOCH	2F03	1280	31	40	70	120	75	196	57	125	66
SUMMERLAND RESERVOIR	2F02	1280	30	42	65	147	91	307	66	174	38
ABERDEEN LAKE	1F01A	1310	28	30	63	95A	81	193	48	119	48
OYAMA LAKE	2F19	1340	30	33	64	-	86	193	31	129	33
POSTILL LAKE	2F07	1370	30	35	77	145	110	243	73	147	52
TROUT CREEK	2F01	1430	01	44	89	139	96	292	33A	141	65
BRENDA MINE	2F18P	1460	Not Measured			309	148	368	148	264	10
ISLAHT LAKE	2F24	1480	24	56	137B	277	124	364	124	235	19
GREYBACK RESERVOIR	2F08	1550	30	52	154	207	111	269	60	160	32
ISINTOK LAKE	2F11	1680	31	32	56	110A	107	307	26	133	37
MUTTON CREEK NO. 1	WA07	1740	31	104	290	297B	124	480	43	249*	37
MISSION CREEK	2F05P	1780	01	-	236	450	169	495	152	312	31
MOUNT KOKAU	2F12	1810	01	85	229	219	151	373	43	201	36
WHITEROCKS MOUNTAIN	2F09	1830	01	87	235	544	-	693	135	399	31
SILVER STAR MOUNTAIN	2F10	1840	28	116	358	648	287	721	229	507	44
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	28	41	127	180	99	462	13	225*	33
HAMILTON HILL	2G06	1490	02	50	110	193	167	411	104	258	39
MISSEZULA MOUNTAIN	2G05	1550	02	30	60	137	110	284	61	174	36
ISINTOK LAKE	2F11	1680	31	32	56	110A	107	307	26	133	37
LOST HORSE MOUNTAIN	2G04	1920	02	36	52	146	94Z	335	70	165	42
BLACKWALL PEAK	2G03P	1940	01	-	383	664	244	1076	159	595	35
HARTS PASS	WA09	1980	27	180	526	1006	404	1328	246	782*	48
HARTS PASS	WA09P	1980	01	-	533	752	371	1005P	371	698*	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

NORTH EAST*February 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	41	68	60	29	154	29	84	29
MACKENZIE A	4A19	700	30	67	136	122	72	305	58	185	30
PACIFIC LAKE	1A11	770	28	89	179	370	216	679	216	451	35
BULLHEAD MOUNTAIN	4A28	790	01	32	58	76	0T	149	0T	70	19
PHILIP LAKE	4A13	980	29	84	184	208	118	353	118	202	36
WARE (LOWER)	4A04	980	30	67	112	195	114	286	63	135	34
AIKEN LAKE	4A30P	1040	01	-	154	243	161	330	142	197	16
TUTIZZI LAKE	4A06	1070	29	91	181	244	141	348	109	186	34
TSAYDAYCHI LAKE	4A12	1160	29	113	250	325	225	507	146	276	35
PINK MOUNTAIN	4A14	1170	31	3	3	30A	10A	138	10A	62	27
KAZA LAKE	1A12	1190	29	96	193	279	213	440	125	239	33
FREDRICKSON LAKE	4A10	1310	29	75	146	204	147	309	110	179	34

PULPIT LAKE	4A09P	1310	01	-	290	351	314	405	232	310	12
PULPIT LAKE	4A09	1310	30	126	242	358	281	530	190	298	31
PINE PASS	4A02P	1400	01	-	469	884	652	1241	652	745	11
TRYGVE LAKE	4A11	1400	30	105	238	322	215	434	183	258	33
SIKANNI LAKE	4C01	1400	30	89	146	249	151	325	81	185	33
PINE PASS	4A02	1430	31	211	743	1054	785	1194	411	809	31
MORFEE MOUNTAIN	4A16	1450	28	160	423	633	434	952	323	599	34
LADY LAURIER LAKE	4A07	1460	30	119	257	521	283	635	226	357	31
MOUNT SHEBA	4A18	1490	28	124	299	613	326	918	317	570	33
GERMANSEN (UPPER)	4A05	1500	29	98	203	288	200	371	140	239	34
MOUNT STEARNS	4A21	1500	30	42	61	145	48	196	41	101	28
JOHANSON LAKE	4B02	1540	29	94	193	242	182	355	115	208	32
MONKMAN CREEK	4A20	1550	28	69	163	405	-	775	238	409	25
BULLMOOSE CREEK	4A31	1570	31	86	174	394	234	539B	217	368	15
WARE (UPPER)	4A03	1570	30	70	120	253	138	289	108	182	32
KWADACHA RIVER	4A27P	1620	01	-	184	263	176	371	139	246*	17

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

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
FORT NELSON A	4C05	380	01	49	83	102	35	128	35	80	37
DEASE LAKE	4C03	820	01	54	91	81	56	202	36	106	38
JADE CITY	4C15	940	30	74	138	162	-	162	162	162*	1
DEADWOOD RIVER	4C09P	1300	01	-	94	98	-	207	61	109*	8
SIKANNI LAKE	4C01	1400	30	89	146	249	151	325	81	185	33

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

February 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	
NINGUNSAW PASS	4B10	690	29	104	233	293	253Z	603	171	319	28
DEASE LAKE	4C03	820	01	54	91	81	56	202	36	106	38
ISKUT	4D02	1000	28	48	75	78	43Z	162	30	87	29
KINASKAN LAKE	4D11P	1020	01	-	311	274	226	516	155	273*	12
TUMEKA CREEK	4D10P	1220	01	-	326	398	375	744	274	457*	13
WADE LAKE	4D14P	1370	01	-	203	229	221	410	125	260*	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

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	
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	28	26	64	103	103	274	0	137*	23
BEAR PASS	4B11A	460	31	126	340	-	192	821	192	505	18
NINGUNSAW PASS	4B10	690	29	104	233	293	253Z	603	171	319	28
GRANDUC MINE	4B12P	790	01	-	1275	-	-	-	-	-	0
CEDAR-KITEEN	4B18P	885	01	-	259	510	398	510	398	454*	2
TACHEK CREEK	4B06	1140	30	60	99	190Z	113	194	113	160	8
KAZA LAKE	1A12	1190	29	96	193	279	213	440	125	239	33
LU LAKE	4B15P	1310	01	-	94	281	-	281	105	190*	4
TSAI CREEK	4B17P	1360	01	-	619	1151	671	1151	671	813*	5
KIDPRICE LAKE	4B01	1370	04	146	420	953	595	953	440	638	45
TRYGVE LAKE	4A11	1400	30	105	238	322	215	434	183	258	33

HUDSON BAY MTN.	4B03A	1480	29	106	259	479	261	665	221	379	31
SHEDIN CREEK	4B16P	1480	01	-	491	720	630	720	559	630*	7
JOHANSON LAKE	4B02	1540	29	94	193	242	182	355	115	208	32

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