Banner

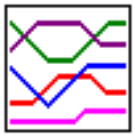
Snowpack and Water Supply Outlook for British Columbia

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.

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.

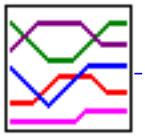
Weather

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


Data Graphs

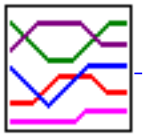

Snow Survey Data Measurements

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.

· Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

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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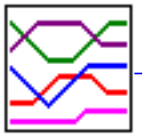
Thompson Basin


Data Graphs


Snow Survey Data Measurements

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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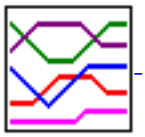
Columbia Basin


Data Graphs


Snow Survey Data Measurements

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


Data Graphs


Snow Survey Data Measurements

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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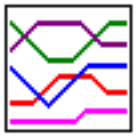
Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

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


Data Graphs


Snow Survey Data Measurements

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


Data Graphs


Snow Survey Data Measurements

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

Data Graphs

Snow Survey Data Measurements

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

					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
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											
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MIDDLE FRASER

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
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

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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MIDDLE and LOWER FRASER

January 1, 2003

MIDDLE FRASER

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
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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E - ESTIMATED BASED ON AREAL AVERAGE											
* - PERIOD OF RECORD AVERAGE											

LOWER FRASER

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
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

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SKAGIT

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
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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LOWER COLUMBIA

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
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

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* - 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

					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
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

Banner

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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 KOBAU	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

					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
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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

VANCOUVER ISLAND

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

NORTH COASTAL

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

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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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* - 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	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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

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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

					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
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

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Banner

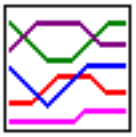
Snowpack and Water Supply Outlook for British Columbia

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



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

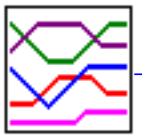
Corrected or previously unpublished data

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

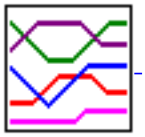
February 1

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

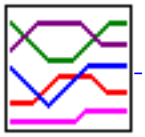
February 1

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

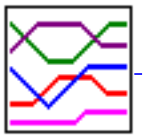
February 1

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

					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
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

					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
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
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

					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
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

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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LOWER FRASER

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
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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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SKAGIT

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
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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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SOUTH THOMPSON

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
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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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

MIDDLE FRASER

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
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

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

Banner

COLUMBIA

February 1, 2003

UPPER COLUMBIA

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
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

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

LOWER COLUMBIA

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
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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

					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
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

VANCOUVER ISLAND

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
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

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

NORTH COASTAL

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
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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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 KOBAU	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

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SIMILKAMEEN

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
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

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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

					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 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

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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

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
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

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E - ESTIMATED BASED ON AREAL AVERAGE

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YUKON

Snow Survey Measurements

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

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Banner

Snowpack and Water Supply Outlook for British Columbia

March 1, 2003

Some climate data estimated (March 6 posting)

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

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

Manual snow surveys have been conducted at 171 BC snow courses. These, together with data from 59 BC snow pillows, 24 out of province snow survey locations, and meteorological and streamflow data from Environment Canada, have been used in making the following analyses.

Snowpack

Snowpacks throughout BC still vary from slightly to far below normal for March 1. The northern quarter of the province, and a small area in the southern parts of the West Kootenay/Lower Columbia have near normal snowpacks. Much of the interior plateau, including the Nechako, parts of the Upper and Middle Fraser, and the North Thompson, have much less snow than normal for this date. Other areas which now have well below normal snow are the South Coast and lower Fraser. The Similkameen, Chilkotin, and some south west portions of the Okanagan appear to have far below normal snowpacks. Low elevation snow in the southern half of the province is quite low, as indicated by the Fraser low-elevation snow index of 47% of normal March 1 snow.

Weather

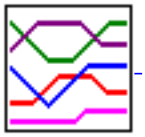
As indicated by Environment Canada valley bottom weather stations, weather over most of the province has been drier than usual over February (except the far north), with temperatures more variable.

Outlook

If this winter's El Nino (drier & warmer) conditions persist through the remainder of the winter and into spring, freshet volumes in the southern three-quarters of the province will be well below normal. However, it appears the El Nino warm current is fading, and Environment Canada is now predicting a wetter than normal spring and early summer throughout the province, with the exception of the south coast. If so, this could increase freshet volumes significantly, and lessen potential water supply problems during the summer.

Environment Canada's EL Nino pages

Upper Fraser & Nechako Basins


Data Graphs


Snow Survey Data Measurements

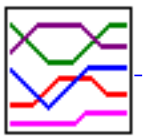
March 1

The Upper Fraser and Nechako basins both have well below usual snowpacks, with mid to upper elevation snow water indexes near 60% of normal for March 1. Around half of the snow readings in these basins are minimums of record. February temperatures and precipitation were nearer normal. Cumulative winter precipitation at Prince George is still well below normal, although in the north Nechako it appears to be near normal. The Fraser low-elevation snow water index is at 49% of normal for March 1, as a result of the generally drier winter, and the warmer temperatures of November through January.

Regional streamflows, as represented by the mean monthly flow in the Fraser River at Marguerite, were below usual during February, at 79% of normal.

· Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

March 1

February precipitation was well below normal at Quesnel, with cumulative total precipitation since November 1 now less than half of normal winter precipitation. Temperatures during the month were average for the time of year. The snow water equivalent index for the middle Fraser basin mid and upper elevation stations is at 65% of normal snowpack for March 1, however much of the interior plateau has around half its normal snow. A narrow band from Bridge River through 100 Mile House appears to have nearer to usual snow.

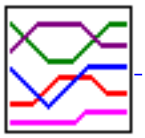
In the lower Fraser basin, the much drier month has resulted in the snow water index for mid and upper elevation snow stations dropping significantly, from 66% of normal on February 1 to 57% of normal March 1.

The Fraser low-elevation snow water index is at 49% of normal for March 1, as a result of the generally drier than usual winter, and the very warm Nov-Jan temperatures.

Regional streamflows as represented by the mean monthly flow in the Fraser River at Hope, continue to be low due to these drier conditions in the basin, at 69% of normal during February.

· Top

Thompson Basin



Data Graphs

Snow Survey Data Measurements

March 1

The North Thompson basin experienced far lower precipitation than usual during February, with cumulative winter total precipitation now at 70% of normal. Monthly mean temperature at Blue River was around 2 degrees C above normal. The March 1 snow index is at 67% of normal, down significantly from last month. Many of the snow measurements were minimums of record.

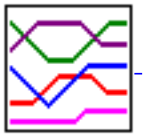
The South Thompson Snow index dropped very slightly from 77% of normal February 1 to 75% on March 1.

Streamflows, as measured by mean monthly flow in the Thompson at Spences

Bridge, were lower than usual for this time of year at 86% of normal.

Top

Columbia Basin


Data Graphs


Snow Survey Data Measurements

March 1

Snowpacks are below to well below normal in the Columbia basins. While the overall Columbia snow water index for March 1 is at 70% of normal, snowpacks vary through the basin. The extreme upper Columbia is drier, with snowpacks in the Golden area at around 60% of usual, with conditions gradually improving towards the lower Columbia, where some areas around the Arrow Lakes appear to have only slightly below normal mid and upper elevation snowpacks. Precipitation during February was far less than usual, bringing cumulative winter totals to 72% of normal.

Streamflows, as represented by the mean monthly flow in the Columbia River at Donald, were well above normal during February, possibly due to a higher than usual (2 degrees C) mean monthly temperature and low elevation snowmelt.

Top

Kootenay Basin


Data Graphs


Snow Survey Data Measurements

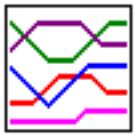
March 1

Snowpacks in the Kootenays also vary. While the overall Kootenay snow Index is at 70% of normal, the East Kootenays along the Rockies on March 1 had many readings less than 60% of normal, varying as you move west to 60-70% in the West Kootenays. Southern portions of the West Kootenays appear to have only slightly below normal mid to upper elevation snowpacks.

Streamflows, as measured by the mean monthly flow in the Kootenay River at Ft Steele, were fairly low during February (note that there is little valley bottom area above this gauge location, and low elevation snowmelt would have less impact than in the above mentioned Columbia R at Donald).

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

March 1

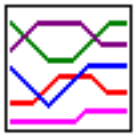
The February precipitation and winter cumulative precipitation at Kelowna are both around 75% of normal. Monthly mean temperature in February was 2 degrees C above normal. Snowpacks reflect this, with the Okanagan-Kettle snow water index at 75% of normal for March 1. There is some variation, with the western side of the Okanagan generally having less than 60% of normal snow, and the SE Okanagan where snowpacks at the higher elevations appear only slightly below normal.

The Similkameen appears to have had a much drier month, with precipitation at Princeton of only 22% of normal for February. Temperatures over the month were slightly above normal. The snowpack is far below normal with the snow water equivalent index for the Similkameen at only 49% of normal.

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

Top

Vancouver Island & Coastal Regions


Data Graphs


Snow Survey Data Measurements

March 1

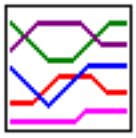
A very dry February has brought cumulative winter precipitation totals at Vancouver down to 72% of normal. The South Coast snow water index has dropped significantly from below normal in January to far below (54% of normal) on March 1. Limited data from the Central Coast indicates snowpacks there are also far below normal for this date.

Vancouver Island also experience a very dry February, however the preceeding two months had been quite wet, bringing cumulative Nov-Feb total precipitation to near normal. The snow water index is at 69% of normal for March 1.

Streamflows, as represented by the mean monthly inflows to Upper Campbell Lake, were lower due to the dry month, at 74% of normal over February.

Top

North East Region



Data Graphs

Snow Survey Data Measurements

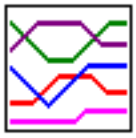
March 1

The northern quarter of BC has been much less affected by El Nino than the southern regions, with cumulative winter precipitation at Ft St John and Ft Nelson near to above normal. While some of the southernmost areas of the Peace basin have well below normal snowpacks, the snow increases as you move north. Sparse data indicates that the Liard basin has only slightly below normal snowpacks.

Streamflows in the region, as represented by mean monthly inflows to Williston Lake, were well above normal during February.

Top

NorthWest Region



Data Graphs

Snow Survey Data Measurements

March 1

Snowpacks in the Skeena are below normal , with a snow water index of 68% of usual. As in Northeast BC, as you move north the snowpack increases. The Stikine snow water index is at 86% of normal, reflecting the relatively high precipitation over the last two months.

Streamflows in the region, as measured by the mean monthly flow in the Skeena River at Usk, were slightly below normal during February.

· Top

Banner

UPPER and MIDDLE FRASER

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
HANSARD	1A06A	610	27	54	141	136	101	396	44	196	30
PRINCE GEORGE A	1A10	690	28	53	96	107	73	296	33	136	41
PACIFIC LAKE	1A11	770	23	134	326	540	294	832	277	569	40
BURNS LAKE	1A16	800	04	41	80	112	80	240	60	143	31
CANOE RIVER	2A01A	910	26	20	38	100	55	251	32	113	62
PHILIP LAKE	4A13	980	24	84	208	260	138	382	138	252	39
HEDRICK LAKE	1A14	1100	23	159	394	554	327	954	327	618	35
HEDRICK LAKE	1A14P	1100	01	-	491	761	386	761	386	605*	3
BIRD CREEK	1A23	1180	04	37	74	150	88	232	88	135*	13
KAZA LAKE	1A12	1190	24	92	213	328	270	478	186	297	37
LU LAKE	4B15	1300	28	53	122	300	174	406	140	269	24
FORFAR CREEK (UPPER)	1A24	1410	25	88	276	638	388	648	328	462	9
EQUITY MINE	4B14	1420	28	81	190	410	272	514	204	351	25
MOUNT SHEBA	4A18	1490	23	170	432	848	410	1037	394	715	32

BARKERVILLE	1A03P	1520	01	-	150A	270	158	479	158	319	24
KNUDSEN LAKE	1A15	1580	23	170	409	737	404	1098	404	722	32
MC BRIDE (UPPER)	1A02	1580	25	88	234	320	169	594	169	361	49
NARROW LAKE	1A21	1650	26	152	455	-	515	1300	419	777	27
REVOLUTION CREEK	1A17P	1690	01	-	393	754	336	1119	336	696	17
LONGWORTH (UPPER)	1A05	1740	23	159	438	760	436	1104	307	674	45
DOME MOUNTAIN	1A19	1820	25	128	318	615	378	981	351	650	29
MARMOT JASPER	AL12	1830	25	55	117	201	91	314	91	200*	19
YELLOWHEAD	1A01	1860	25	97	253	417	189	660	185	432	32
YELLOWHEAD	1A01P	1860	01	-	371	514	266	720	266	499	6
HOLMES RIVER	1A18	1900	25	151	455	624	327	910	321	620	29

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

					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
SKINS LAKE	1B05	880	04	29	60	109	70	226	54	115	39
TAHTSA LAKE	1B02	1300	03	193	666	1476	828	1476	571	1025	51
TAHTSA LAKE	1B02P	1300	01	-	692	1442	896	1512	661	1084	9

KIDPRICE LAKE	4B01	1370	03	140	461	1137	655	1137	429	802	51
MOUNT PONDOSY	1B08P	1400	01	-	360	994	558	994	405	710	10
MOUNT WELLS	1B01	1490	03	79	244	562	288	886	277	464	50
NUTLI LAKE	1B07	1490	04	85	229	649	324	651	304	487*	12
MOUNT WELLS	1B01P	1490	01	-	244	579	351	607	329	495	10
MOUNT SWANNELL	1B06	1620	03	52	132	315	173	446	148	263*	14

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

MIDDLE FRASER

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
PUNTZI MOUNTAIN	1C22	940	27	9	20	48	36	128	0	63	32
BROOKMERE	1C01	980	28	39	113	147	135	351	53	194	58
NAZKO	1C08	1070	Not Available			60	50	155	0	80	26
BIG CREEK	1C21	1140	27	9	10	42	48	112	0	55	31
GRANITE MOUNTAIN	1C33	1150	28	48	87	167	100	254	94	164	10
DUFFY LAKE	1C28	1200	01	102	323	480	242	762	194	459	24
PAVILION	1C06	1230	26	11	20	70	50	168	0	71	46
LAC LE JEUNE (LOWER)	1C07	1370	27	29	65	77	60	244	20	101	44

BRIDGE GLACIER (LOWER)	1C39	1400	27	125	392	542	304	954	304	574*	8
DEADMAN RIVER	1C32	1430	26	31	44	107	85A	170	62	105	19
BRALORNE	1C14	1450	27	37	110	170	97	363	0	169	39
SHOVELNOSE MOUNTAIN	1C29	1450	28	47	96	235	155	398	104	253	22
BOSS MOUNTAIN MINE	1C20P	1460	01	-	308	533	315	735	315	511	9
BRENDA MINE	2F18	1460	26	62	155	276	150	495	130	287	34
LAC LE JEUNE (UPPER)	1C25	1460	27	38	90	117	78	213	13A	134	30
BRENDA MINE	2F18P	1460	01	-	212	389	184	431	184	342	10
HIGHLAND VALLEY	1C09A	1510	27	29	64	90	46	229	25A	89	37
BARKERVILLE	1A03P	1520	01	-	150A	270	158	479	158	319	24
HORSEFLY MOUNTAIN	1C13A	1550	04	85	252	-	302	624	238	418	30
GNAWED MOUNTAIN	1C19	1580	27	28	76	106	58	259	15	111	35
MOUNT TIMOTHY	1C17	1660	01	60	239	262	173	468	141	285	40
YANKS PEAK EAST	1C41P	1670	01	-	398	660	443	900	443	700	6
PENFOLD CREEK	1C23	1680	26	172	540	928	453	1132	453	828	28
GREEN MOUNTAIN	1C12P	1780	01	-	613	930	445	1259	445	754	9
MCGILLIVRAY PASS	1C05	1800	27	116	349	582	302	1016	222	522	51
MISSION RIDGE	1C18P	1850	01	-	277	561	287	866	269	515	16
DOWNTON LAKE (UPPER)	1C38	1890	27	149	518	876	458	1250	458	755	8

TYAUGHTON CREEK (NORTH)	1C40	1950	27	105	320	480	282	916	282	368	8
BRALORNE (UPPER)	1C37	1980	27	100	322	674	370	944	370	631	8

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

Banner

MIDDLE and LOWER FRASER

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PUNTZI MOUNTAIN	1C22	940	27	9	20	48	36	128	0	63	32
BROOKMERE	1C01	980	28	39	113	147	135	351	53	194	58
NAZKO	1C08	1070	Not Available			60	50	155	0	80	26
BIG CREEK	1C21	1140	27	9	10	42	48	112	0	55	31
GRANITE MOUNTAIN	1C33	1150	28	48	87	167	100	254	94	164	10
DUFFY LAKE	1C28	1200	01	102	323	480	242	762	194	459	24
PAVILION	1C06	1230	26	11	20	70	50	168	0	71	46
LAC LE JEUNE (LOWER)	1C07	1370	27	29	65	77	60	244	20	101	44
BRIDGE GLACIER (LOWER)	1C39	1400	27	125	392	542	304	954	304	574*	8
DEADMAN RIVER	1C32	1430	26	31	44	107	85A	170	62	105	19
BRALORNE	1C14	1450	27	37	110	170	97	363	0	169	39
SHOVELNOSE MOUNTAIN	1C29	1450	28	47	96	235	155	398	104	253	22

BOSS MOUNTAIN MINE	1C20P	1460	01	-	308	533	315	735	315	511	9
BRENDA MINE	2F18	1460	26	62	155	276	150	495	130	287	34
LAC LE JEUNE (UPPER)	1C25	1460	27	38	90	117	78	213	13A	134	30
BRENDA MINE	2F18P	1460	01	-	212	389	184	431	184	342	10
HIGHLAND VALLEY	1C09A	1510	27	29	64	90	46	229	25A	89	37
BARKERVILLE	1A03P	1520	01	-	150A	270	158	479	158	319	24
HORSEFLY MOUNTAIN	1C13A	1550	04	85	252	-	302	624	238	418	30
GNAWED MOUNTAIN	1C19	1580	27	28	76	106	58	259	15	111	35
MOUNT TIMOTHY	1C17	1660	01	60	239	262	173	468	141	285	40
YANKS PEAK EAST	1C41P	1670	01	-	398	660	443	900	443	700	6
PENFOLD CREEK	1C23	1680	26	172	540	928	453	1132	453	828	28
GREEN MOUNTAIN	1C12P	1780	01	-	613	930	445	1259	445	754	9
MCGILLIVRAY PASS	1C05	1800	27	116	349	582	302	1016	222	522	51
MISSION RIDGE	1C18P	1850	01	-	277	561	287	866	269	515	16
DOWNTON LAKE (UPPER)	1C38	1890	27	149	518	876	458	1250	458	755	8
TYAUGHTON CREEK (NORTH)	1C40	1950	27	105	320	480	282	916	282	368	8
BRALORNE (UPPER)	1C37	1980	27	100	322	674	370	944	370	631	8

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

LOWER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
WOLVERINE CREEK	1D13	300	01	12	40	176	100	232	0	98*	27
SUMMALLO RIVER WEST	3D01C	790	27	20	59	263	188	442	79	271	11
BROOKMERE	1C01	980	28	39	113	147	135	351	53	194	58
CALLAGHAN CREEK	3A20	1040	26	115	372	722	472	1260	200	770	25
DISAPPOINTMENT LAKE	1D18P	1040	25	-	620P	1476P	904P	1746	904P	1353*	4
DICKSON LAKE	1D16	1070	25	182	688	1490A	796	1490A	542	1263	10
DOG MOUNTAIN	3A10	1080	24	93	366	1149	518	2146Z	345	1016	19
BEAVER PASS	WA12	1120	01	112	384	764	307	1298	30	656*	54
KLESILKWA	3D03A	1130	25	32	63	415	118	759	0	296	52
SPUZZUM CREEK	1D19P	1180	01	-	739	1620	746	1620	746	1286*	3
DUFFEY LAKE	1C28	1200	01	102	323	480	242	762	194	459	24
STAVE LAKE	1D08	1210	25	196	739	1309	721	2500A	353	1285	35
WAHLEACH LAKE	1D09	1400	25	93	259	640	356	1072	86	528	36
WAHLEACH LAKE	1D09P	1400	01	-	494	1094	634	1213	634	955	10
NAHATLATCH RIVER	1D10	1520	25	205	764	1340A	565	2380A	450	1194	34
EASY PASS	WA13	1580	Not Available			-	665	2913	478	1652*	36
CHILLIWACK RIVER	1D17P	1600	01	-	795	1474	795	1567	795	1154*	9
GREAT BEAR	1D15P	1660	01	-	870	1658	750	1752	708	1423	11
TENQUILLE LAKE	1D06	1680	28	196	762	1096	608	1568	410	980	49
TENQUILLE LAKE	1D06P	1680	01	-	675	1058	518	1058	518	788*	2

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SKAGIT

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SUMALLO RIVER WEST	3D01C	790	27	20	59	263	188	442	79	271	11
FREEZEOUT CREEK TRAIL	WA11	1070	28	48	145	274	137	615	15	274*	54
BEAVER PASS	WA12	1120	01	112	384	764	307	1298	30	656*	54
KLESILKWA	3D03A	1130	25	32	63	415	118	759	0	296	52
LIGHTNING LAKE	3D02	1220	28	71	190	250	150	497	51	282	29
HARTS PASS	WA09	1980	27	203	688	1260	498	1636	312	949*	52
HARTS PASS	WA09P	1980	01	-	516	988	444	1320A	444	892*	5

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

Banner

THOMPSON

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
BLUE RIVER	1E01B	670	02	58	179	266	226	411	210	290	20
KNOUFF LAKE	1E05	1200	27	31	76	151	94	284	36	133	44
COOK CREEK	1E14P	1280	01	-	308	499	338	499	338	436*	3
COOK FORKS	1E06	1390	28	186	570	888	462	1288	453	782	40
BOSS MOUNTAIN MINE	1C20P	1460	01	-	308	533	315	735	315	511	9
MOUNT COOK	1E02P	1550	01	-	821	1166	680	1166	680	923*	2
MOUNT COOK	1E02A	1580	01	230	748	1072	642	1550A	573	1054	29
AZURE RIVER	1E08P	1620	01	-	634	1024	548	1335	548	980	6
ADAMS RIVER	1E07	1720	Not Available		656	402	892	262	575	32	

KOSTAL LAKE	1E10P	1770	01	-	477	727	485	1019	485	733	18
TROPHY MOUNTAIN	1E03A	1860	01	87	216	490	283	778	281	453	28
NORTH CLEMINA CREEK	1E13	1860	25	153	456	776	451	899	355	657	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

SOUTH THOMPSON

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
ANGLEMONT	1F02	1190	Not Available			292	276	635	200	337	46
ABERDEEN LAKE	1F01A	1310	26	40	86	123	101	231	51	145	49
MONASHEE PASS	2E01	1370	24	82	202	271	169	442	149	306	43
BOULEAU LAKE	2F21	1400	23	70	188	266	172	432A	165	295	32
ADAMS RIVER	1E07	1720	Not Available			656	402	892	262	575	32
KIRBYVILLE LAKE	2A25	1750	03	206	752	1160	613	1476	526	986	29
SILVER STAR MOUNTAIN	2F10	1840	23	150	456	729	347	912	347	636	44
PARK MOUNTAIN	1F03P	1890	01	-	554	786	383	1021	383	739	18
ENDERBY	1F04	1900	27	204	710	1030	440	1200	440	859	39

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

					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
PUNTZI MOUNTAIN	1C22	940	27	9	20	48	36	128	0	63	32
BROOKMERE	1C01	980	28	39	113	147	135	351	53	194	58
NAZKO	1C08	1070	Not Available			60	50	155	0	80	26
BIG CREEK	1C21	1140	27	9	10	42	48	112	0	55	31
GRANITE MOUNTAIN	1C33	1150	28	48	87	167	100	254	94	164	10
DUFFY LAKE	1C28	1200	01	102	323	480	242	762	194	459	24
PAVILION	1C06	1230	26	11	20	70	50	168	0	71	46
LAC LE JEUNE (LOWER)	1C07	1370	27	29	65	77	60	244	20	101	44
BRIDGE GLACIER (LOWER)	1C39	1400	27	125	392	542	304	954	304	574*	8
DEADMAN RIVER	1C32	1430	26	31	44	107	85A	170	62	105	19
BRALORNE	1C14	1450	27	37	110	170	97	363	0	169	39
SHOVELNOSE MOUNTAIN	1C29	1450	28	47	96	235	155	398	104	253	22
BOSS MOUNTAIN MINE	1C20P	1460	01	-	308	533	315	735	315	511	9

BRENDA MINE	2F18	1460	26	62	155	276	150	495	130	287	34
LAC LE JEUNE (UPPER)	1C25	1460	27	38	90	117	78	213	13A	134	30
BRENDA MINE	2F18P	1460	01	-	212	389	184	431	184	342	10
HIGHLAND VALLEY	1C09A	1510	27	29	64	90	46	229	25A	89	37
BARKERVILLE	1A03P	1520	01	-	150A	270	158	479	158	319	24
HORSEFLY MOUNTAIN	1C13A	1550	04	85	252	-	302	624	238	418	30
GNAWED MOUNTAIN	1C19	1580	27	28	76	106	58	259	15	111	35
MOUNT TIMOTHY	1C17	1660	01	60	239	262	173	468	141	285	40
YANKS PEAK EAST	1C41P	1670	01	-	398	660	443	900	443	700	6
PENFOLD CREEK	1C23	1680	26	172	540	928	453	1132	453	828	28
GREEN MOUNTAIN	1C12P	1780	01	-	613	930	445	1259	445	754	9
MCGILLIVRAY PASS	1C05	1800	27	116	349	582	302	1016	222	522	51
MISSION RIDGE	1C18P	1850	01	-	277	561	287	866	269	515	16
DOWNTON LAKE (UPPER)	1C38	1890	27	149	518	876	458	1250	458	755	8
TYAUGHTON CREEK (NORTH)	1C40	1950	27	105	320	480	282	916	282	368	8
BRALORNE (UPPER)	1C37	1980	27	100	322	674	370	944	370	631	8

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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Banner

COLUMBIA

March 1, 2003

UPPER COLUMBIA

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
CANOE RIVER	2A01A	910	26	20	38	100	55	251	32	113	62
DOWNIE SLIDE (LOWER)	2A27	980	03	132	386	578	-	1018	378	631	23
GLACIER	2A02	1250	27	140	409	568	378	952	251	631	63
FIELD	2A03A	1280	26	39	70	92	101	248	53	162	63
SUNWAPTA FALLS	AL11	1400	26	46	99	135	94	277	79	170*	31
VERMONT CREEK	2A19	1520	05	86	232	354	159	643	152	400	36
AZURE RIVER	1E08P	1620	01	-	634	1024	548	1335	548	980	6
DOWNIE SLIDE (UPPER)	2A29	1630	03	243	930	1260	614	2120	614	1139	23
KICKING HORSE	2A07	1650	26	76	176	215	140	462	140	308	56
KIRBYVILLE LAKE	2A25	1750	03	206	752	1160	613	1476	526	986	29
MOUNT REVELSTOKE	2A06P	1830	01	-	738	-	577	1487	537	1014	8

NORTH CLEMINA CREEK	1E13	1860	25	153	456	776	451	899	355	657	14
FIDELITY MOUNTAIN	2A17	1870	26	209	701	1143	599	1703	534	1081	40
BEAVERFOOT	2A11	1890	05	50	108	174	80A	333	80A	192	41
KEYSTONE CREEK	2A18	1890	03	138	448	725	357	1277	357	696	34
BUSH RIVER	2A23	1920	03	148	457	769	377	1078	281	727	35
GOLDSTREAM	2A16	1920	03	212	741	1105	582	1351	553	968	39
NIGEL CREEK	AL10	1920	26	84	206	399	150	655	135	368*	31
MOLSON CREEK	2A21P	1980	01	-	641	1043	510	1109	437	865	19
MOUNT ABBOT	2A14	1980	28	211	708	1119	549	1448	508	1051	43
SUNBEAM LAKE	2A22	2010	03	178	577	805	408	1117	389	780	34
MIRROR LAKE	AL06	2030	26	64	140	302	122	483	122	259*	36
BOW SUMMIT II	AL07A	2080	26	74	157	376	137	533	124	322*	23

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

					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
FERGUSON	2D02	880	25	105	297	408	283	796	283	539	51
BAIRD	WA02	980	24	56	140	203	162	368	0	185*	44
FARRON	2B02A	1220	24	89	219	268	160	450	79	295	30

MONASHEE PASS	2E01	1370	24	82	202	271	169	442	149	306	43
WHATSHAN (UPPER)	2B05	1480	24	146	449	519	285	918	285	611	41
BARNES CREEK	2B06	1620	24	132	384	428	266	634	251	447	41
BARNES CREEK	2B06P	1620	01	-	397	446	229	682	229	440	9
ST. LEON CREEK	2B08	1800	24	236	755	1207	500	1621	500	1098	33
ST. LEON CREEK	2B08P	1800	01	-	656	1013	416	1392	416	974	9
KOCH CREEK	2B07	1860	24	164	571	679	337	996	269	625	38
RECORD MOUNTAIN	2B09	1890	01	168	608	691	277	1136	147	628	28
EAST CREEK	2D08P	2030	01	-	424	720	330	1167	312	790	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

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
KISHENEHN	MT01	1190	24	51	119	203	117	399	36	211*	57
FERNIE EAST	2C07	1250	02	71	168	318	118	584	61	313	52
SINCLAIR PASS	2C01	1370	28	28	56	82	67	262	48	126	56
BRUSH CREEK TIMBER	MT03	1520	26	36	89	157	142	432	86	223*	50
MARBLE CANYON	2C05	1520	28	80	185	303	153	579	152	330	56
SULLIVAN MINE	2C04	1550	26	76	198	224	121	465	53	268	57
WEASEL DIVIDE	MT02	1660	28	155	442	803	287	1257	254	740*	44
KIMBERLEY (MIDDLE)V O R	2C12	1680	23	71	172	213	111	386	97	242	34
BANFIELD MOUNTAIN	MT05P	1710	01	-	282	434	239	663	239	405*	5

MOUNT JOFFRE	2C16	1750	05	85	184	370	122	551	122	329	31
MORRISSEY RIDGE	2C09Q	1800	01	-	428	686	232	1074	232	620	19
MOYIE MOUNTAIN	2C10P	1930	01	-	285	435	219	653	149	338	23
HAWKINS LAKE	MT06P	1970	01	-	427	610	254	881	254	509*	5
ALLISON PASS	AL01	1980	24	89	234	375	189	625	189	409*	20
WILKINSON SUMMIT (BUSH)	AL03	1980	24	27	62	-	-	307	122	180*	13
THUNDER CREEK	2C17	2010	Not Measured			219	93	378	91	239	33
FLOE LAKE	2C14	2090	05	154	448	682	279	993	279	665	33
FLOE LAKE	2C14P	2090	01	-	413	634	300	889	254	614	8
KIMBERLEY (UPPER) V O R	2C11	2140	23	101	273	373	152	696	152	390	34
HIGHWOOD SUMMIT (BUSH)	AL02	2210	25	83	198	404	145	455	145	328*	24
MOUNT ASSINIBOINE	2C15	2230	05	116	302	489	185	680	185	454	33
SUNSHINE VILLAGE	AL05	2230	27	124	302	569	211	770	211	495*	32

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

WEST KOOTENAY

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
DUNCAN LAKE NO. 2	2D07A	650	26	27	92	112	108	263	72	142*	12
FERGUSON	2D02	880	25	105	297	408	283	796	283	539	51
NELSON	2D04	930	24	90	216	326	201	558	140	353	63
SANDON	2D03	1070	28	70	210	270	214	475	214	347	26
CHAR CREEK	2D06	1310	01	135	430	446	231	754	231	476	35
BUNCHGRASS MEADOW	WA01P	1520	01	-	625	711	318	1049	318	665*	5
GRAY CREEK (LOWER)	2D05	1550	04	101	264	-	245	663	201	406	53
KOCH CREEK	2B07	1860	24	164	571	679	337	996	269	625	38
MOUNT TEMPLEMAN	2D09	1860	Not Measured			892	490	1534	490	935	33
GRAY CREEK (UPPER)	2D10	1910	04	154	513	-	343	955	343	651	32
EAST CREEK	2D08P	2030	01	-	424	720	330	1167	312	790	22
REDFISH CREEK	2D14P	2104	01	-	761	1256	-	1256	1256	1256*	1

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

Banner

KETTLE, OKANAGAN and SIMILKAMEEN

March 1, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FARRON	2B02A	1220	24	89	219	268	160	450	79	295	30
GOAT CREEK	WA04	1220	24	51	142	135	112	300	0	162*	40
CARMI	2E02	1250	02	43	100	102	88	274	56	147	40
MONASHEE PASS	2E01	1370	24	82	202	271	169	442	149	306	43
SUMMIT G.S.	WA05	1400	24	84	213	173	160	305	63	190*	39
BIG WHITE MOUNTAIN	2E03	1680	03	117	328	454	234	676	213	426	37
GRANO CREEK	2E07P	1860	01	-	334	510	206	634	206	440*	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
MC CULLOCH	2F03	1280	28	46	79	130	107	249	71	157	63
SUMMERLAND RESERVOIR	2F02	1280	27	52	108	215	116	381	97	214	42
ABERDEEN LAKE	1F01A	1310	26	40	86	123	101	231	51	145	49
OYAMA LAKE	2F19	1340	27	40	81	147	111	241	73	157	33
POSTILL LAKE	2F07	1370	28	54	122	183	147	274	98	186	53
BOULEAU LAKE	2F21	1400	23	70	188	266	172	432A	165	295	32
VASEUX CREEK	2F20	1400	27	32	76	72	60	284	60	139	32
TROUT CREEK	2F01	1430	25	41	117	190	138	335	55	169	63
BRENDA MINE	2F18	1460	26	62	155	276	150	495	130	287	34
BRENDA MINE	2F18P	1460	01	-	212	389	184	431	184	342	10
ISLAHT LAKE	2F24	1480	27	66	180	330	165	497	165	317	21
GREYBACK RESERVOIR	2F08	1550	27	69	191	174	123	312	91	198	36
ESPERON CR (UPPER)	2F13	1650	23	82	210	412	182	635	157	371	34
ISINTOK LAKE	2F11	1680	28	38	66	129	133	358	53	164	38
MACDONALD LAKE	2F23	1740	26	84	208	479	241	583	170	394	26
MUTTON CREEK NO. 1	WA07	1740	28	102	330	335B	140	589	0	306*	59
MISSION CREEK	2F05P	1780	01	-	304	514	206	610	206	388	31
GRAYSTOKE LAKE	2F04	1810	03	80	200	352	128	605	128	330	24
MOUNT KOBAU	2F12	1810	01	88	259	269	195	488	61	259	37
WHITEROCKS MOUNTAIN	2F09	1830	03	98	295	610	263	809	180	499	47

SILVER STAR MOUNTAIN	2F10	1840	23	150	456	729	347	912	347	636	44

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SIMILKAMEEN

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
BROOKMERE	1C01	980	28	39	113	147	135	351	53	194	58
FREEZEOUT CREEK TRAIL	WA11	1070	28	48	145	274	137	615	15	274*	54
LIGHTNING LAKE	3D02	1220	28	71	190	250	150	497	51	282	29
HAMILTON HILL	2G06	1490	04	57	140	305	210	676	127	326	41
MISSEZULA MOUNTAIN	2G05	1550	01	38	79	204	138	363	76	221	39
ISINTOK LAKE	2F11	1680	28	38	66	129	133	358	53	164	38
LOST HORSE MOUNTAIN	2G04	1920	23	51	100	160	174	508	92	204	40
BLACKWALL PEAK	2G03P	1940	01	-	431	848	311	1323	213	728	35
HARTS PASS	WA09	1980	27	203	688	1260	498	1636	312	949*	52
HARTS PASS	WA09P	1980	01	-	516	988	444	1320A	444	892*	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

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09	880	25	114	509	1378	736	3150A	95	1183	48
PALISADE LAKE	3A09P	880	Not Available			-	-	1287	1287	1287*	1
CHAPMAN CREEK	3A26	1022	Not Available			1274Z	790	1412	662	1268	7
CALLAGHAN CREEK	3A20	1040	26	115	372	722	472	1260	200	770	25
DOG MOUNTAIN	3A10	1080	24	93	366	1149	518	2146Z	345	1016	19
GROUSE MOUNTAIN	3A01	1100	24	109	390	1286	658	2320A	143	997	52
ORCHID LAKE	3A19	1190	25	227	849	1412	951	2960A	444	1568	28
ORCHID LAKE	3A19P	1190	01	-	1034	1476	932	3093	805	1621*	16

UPPER SQUAMISH RIVER	3A25P	1340	01	-	953	1346	806	2301	806	1380	13
NOSTETUKO RIVER	3A22P	1500	01	-	240	518	-	769	203	536*	13
UPPER MOSELY CREEK	3A24P	1650	01	-	124	298	186	555	98	272*	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

					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
WOLF RIVER (LOWER)	3B19	640	24	33	126	374	236	1064	0	347	32
TENNENT LAKE	3B22	950	05	132	576	914Z	-	1200	290A	833	16
UPPER THELWOOD LAKE	3B10	980	24	180	754	1214	828	2440A	281	1204	42
WOLF RIVER (MIDDLE)	3B18	1070	24	95	354	552	350	1344	71	532	32
FORBIDDEN PLATEAU	3B01	1130	24	205	864	1197	953	2730A	260	1279	47
JUMP CREEK	3B23P	1160	01	-	484	1163	589	2016	304	977	7
MOUNT COKELY	3B02A	1190	04	122	478	776	388	1016	178	701	21

WOLF RIVER (UPPER)	3B17P	1490	01	-	1033	1033	698	1777	512	1178	14

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

NORTH COASTAL

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
WEDEENE RIVER SOUTH	3C07	300	28	78	268	499	-	817	207	412*	18
TAHTSA LAKE	1B02	1300	03	193	666	1476	828	1476	571	1025	51
TAHTSA LAKE	1B02P	1300	01	-	692	1442	896	1512	661	1084	9
BURNT BRIDGE CREEK	3C08P	1330	01	-	274	900	420	900	420	694*	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

March 1, 2003

PEACE

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 ST. JOHN A	4A25	690	01	45	90	78	38	191	38	107	29
MACKENZIE A	4A19	700	28	74	172	180	92	345	92	232	30
PACIFIC LAKE	1A11	770	23	134	326	540	294	832	277	569	40
BULLHEAD MOUNTAIN	4A28	790	Not Measured			86	0T	142	0T	89	19
PHILIP LAKE	4A13	980	24	84	208	260	138	382	138	252	39
WARE (LOWER)	4A04	980	25	67	155	214	138	246	97	164	39
AIKEN LAKE	4A30P	1040	01	-	180	295	188	363	162	242	16
TUTIZZI LAKE	4A06	1070	24	82	191	290	164	386	140	230	39
TSAYDAYCHI LAKE	4A12	1160	24	110	267	444	284	540	166	342	39
PINK MOUNTAIN	4A14	1170	28	27	58	33	10A	160	10A	77	39
KAZA LAKE	1A12	1190	24	92	213	328	270	478	186	297	37
FREDRICKSON LAKE	4A10	1310	24	71	164	228	178	315	129	214	38

PULPIT LAKE	4A09P	1310	01	-	360	408	347	448	290	361	12
PULPIT LAKE	4A09	1310	25	128	299	407	350	531	233	357	38
PINE PASS	4A02P	1400	01	-	600	1100	735	1485	735	921	11
TRYGVE LAKE	4A11	1400	25	108	246	337	243	453	211	315	38
SIKANNI LAKE	4C01	1400	25	80	169	273	184	335	107	229	37
PINE PASS	4A02	1430	26	233	720	1262	925	1502	480	1005	39
MORFEE MOUNTAIN	4A16	1450	23	184	518	790	601	1166	312	739	35
LADY LAURIER LAKE	4A07	1460	25	120	295	571	328	662	255	438	36
MOUNT SHEBA	4A18	1490	23	170	432	848	410	1037	394	715	32
GERMANSEN (UPPER)	4A05	1500	24	95	225	366	240	520	174	302	42
MOUNT STEARNS	4A21	1500	25	39	76	141	64	227	56	123	28
JOHANSON LAKE	4B02	1540	24	84	191	271	216	368	148	253	39
MONKMAN CREEK	4A20	1550	23	97	222	503	211	925	211	522	21
BULLMOOSE CREEK	4A31	1570	27	97	248	510	276	663	273	440	15
WARE (UPPER)	4A03	1570	25	73	165	253	157	360	114	220	42
KWADACHA RIVER	4A27P	1620	01	-	221	315	206	405	195	297*	18

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	28	56	97	124	40	177A	40	98	37
WATSON LAKE A	YK01	700	26	65	121	174	113	216	61	127*	37
FRANCES RIVER	YK02	730	26	63	134	154	143	312	65	135*	27
DEASE LAKE	4C03	820	01	66	118	120A	75	229	45	125	38
JADE CITY	4C15	940	27	71	158	208	-	208	208	208*	1
SUMMIT LAKE	4C02	1280	Not Available			100A	-	190	0T	106	34
DEADWOOD RIVER	4C09P	1300	01	-	113	109	113	220	58	123*	9
SIKANNI LAKE	4C01	1400	25	80	169	273	184	335	107	229	37

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

March 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SPEEL RIVER	AK03	80	Not Available			813	389B	1024	389B	664*	32
TELEGRAPH CREEK	4D01	580	01	46	108	109	96	345	53	156	28
NINGUNSAW PASS	4B10	690	26	103	287	416	292	629	232	408	28
DEASE LAKE	4C03	820	01	66	118	120A	75	229	45	125	38
ISKUT	4D02	1000	26	31	75	101	63	176	33	107	28
KINASKAN LAKE	4D11P	1020	01	-	341	338	268	527	204	331*	12
TUMEKA CREEK	4D10P	1220	01	-	364	487	421	789	338	535*	13
WADE LAKE	4D14P	1370	01	-	248	278	249	475	162	302*	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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
ATLIN LAKE	4E02A	730	02	34	104	113	80	185A	50	110*	19
LOG CABIN	4E01	880	25	76	207	436	372	514	124	330	42
PINE LK AIRSTRIP	YK03	1010	27	74	150A	192	177	330	25	187*	27
MONTANA MTN.	YK05	1020	28	44	83	132	65	202	65	127*	27
TAGISH	YK04	1080	26	47	88	151	82	198	75	121*	27

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
TERRACE A	4B13A	180	27	21	62	173	116	407	0	149*	21
BEAR PASS	4B11A	460	02	134	360	546	428	824	416	610	19
NINGUNSAW PASS	4B10	690	26	103	287	416	292	629	232	408	28
GRANDUC MINE	4B12P	790	01	-	1384	1725	-	1725	1725	1725*	1
CEDAR-KITEEN	4B18P	885	01	-	319	649	469	649	469	559*	2

MCKENDRICK CREEK	4B07	1050	25	58	198	275	182	391	177	269	35
TACHEK CREEK	4B06	1140	26	67	120	203	149	330	117	206	35
KAZA LAKE	1A12	1190	24	92	213	328	270	478	186	297	37
LU LAKE	4B15	1300	28	53	122	300	174	406	140	269	24
LU LAKE	4B15P	1310	01	-	116	319	-	319	116	220*	4
TSAI CREEK	4B17P	1360	01	-	694	1384	758	1384	743	972*	5
KIDPRICE LAKE	4B01	1370	03	140	461	1137	655	1137	429	802	51
TRYGVE LAKE	4A11	1400	25	108	246	337	243	453	211	315	38
EQUITY MINE	4B14	1420	28	81	190	410	272	514	204	351	25
CHAPMAN LAKE	4B04	1460	25	93	300	543	346	691	268	414	38
HUDSON BAY MTN.	4B03A	1480	26	90	312	620	378	719	287	459	31
SHEDIN CREEK	4B16P	1480	01	-	563	878	724	904	664	756*	7
MOUNT CRONIN	4B08	1480	25	107	345	646	470	869	348	522	34
JOHANSON LAKE	4B02	1540	24	84	191	271	216	368	148	253	39

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

Province-Wide Synopsis

Basin Data and Graphs

-Upper Fraser

-Mid and Lower Fraser

-Thompson

-Columbia

-Kootenay

-Okanagan, Kettle, and Similkameen

-Coastal

-NorthEast

-NorthWest

Volume Forecasts

BC Snowpack Map

groundwater graphs 2003

Snowpack and Water Supply Outlook for British Columbia

April 1, 2003

Fraser Volume forecasts re-posted April 8

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

B.C Summary Graphs of Snow Water Equivalents

Manual snow surveys have been conducted at 171 BC snow courses. These, together with data from 58 BC snow pillows, 29 out of province snow survey locations, and meteorological and streamflow data from Environment Canada, have been used in making the following analyses.

Snowpack

Snow water equivalent "% of normal" ratings have increased significantly all over the province during the last month, as a result of heavier precipitation than usual nearly everywhere. Snowpacks vary considerably between and within regions. The Northeast has above normal snow, with much of the remainder of the province in the 70% to 85% of normal range. The central interior plateau has less than half its normal snowpack for April 1.

Throughout much of the southern 2/3 of the province, low elevation snow is much shallower than usual for this time of year.

View provincial map of snowpack "% of April 1 normal SWE"

Weather

As indicated by Environment Canada valley bottom weather stations, weather over most of the province has been considerably wetter than the usual March. Driest were the Middle Fraser, with well below normal precipitation, and the Okanagan,

Snow pillow info & graphs

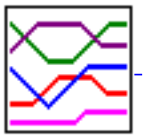
Corrected or previously unpublished data

with near normal March precipitation. The Peace basin appears to have had nearly triple its usual March precipitation. Temperatures through most of the province have been nearly normal during March. Exceptions are the Okanagan and south coast, which have been slightly warmer than usual, and the northeast, with slightly colder temperatures than normal this month.

Outlook

Freshet volumes in the far north may be near to above normal, however they will likely be below normal in most of the rest of the province. Unless the spring and early summer is wetter than usual, the plateau areas of the central interior will have much less runoff than normal.

Upper Fraser & Nechako Basins



Data Graphs

Snow Survey Data Measurements

April 1

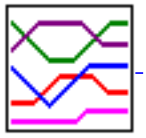
Although March has seen considerably greater than normal snow fall, the Upper Fraser and Nechako basins still have well below usual snowpacks, with mid to upper elevation snow water indexes of 73% and 71% of normal for April 1. Most of the snow readings in the south Nechako basin are still minimums of record, as are some of those in the Upper Fraser. The Fraser low-elevation snow water index is still at 49% of normal for April 1, as a result of the generally drier winter, and the warmer temperatures of November through January. March precipitation was well above normal, however cumulative winter precipitation in both basins is still below normal. Mean monthly temperatures were around 2 degrees C below normal during March.

Note that the precipitation index station for the Nechako in the data graphs has been changed to Wisteria, on the north shore of Ootsa Lake, as Fort St James data has usually not been available at publishing time. Therefore this accumulated winter precipitation index is now more representative of the reservoir portion of the Nechako than the Stuart River.

Regional streamflows, as represented by the mean monthly flow in the Fraser River at Marguerite at 79% of normal, continued to be low due to the overall drier weather of the winter.

Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

April 1

While the overall Middle Fraser snow index is at 74% of normal, actual local conditions vary widely. Snowpacks vary from the near normal in the Bridge River area, to below normal along the eastern mountains, to less than half of usual for April 1 through the Chilcotin and plateau country. Some snow readings are minimums of record. This reflects cumulative winter precipitation in Quesnel, which is our only AES index station which still has well below normal Nov-March precipitation (51% of normal).

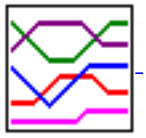
In the Lower Fraser sub-basin, the heavier than normal precipitation over month has resulted in the snow water index for mid and upper elevation snow stations rising to 69% of normal. However, this is still well below normal for April 1 snowpacks.

The Fraser low-elevation snow water index is at 49% of normal for April 1, as a result of the generally drier than usual winter, and the very warm Nov-Jan temperatures.

While regional streamflows, as represented by the mean monthly flow in the Fraser River at Hope, have recovered slightly during March, they continue to be low due to earlier dry conditions in the basin, at 75% of normal for the month.

· Top

Thompson Basin


Data Graphs


Snow Survey Data Measurements

April 1

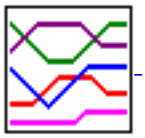
The mean monthly temperature in the Thompson basin was normal during March. While precipitation was well above normal over the month in the North Thompson, it was nearly twice normal in the South Thompson. The mid to upper elevation

snow water equivalent index for the North Thompson has risen to 76% of normal, however there are still some snow readings at lower elevations which are minimums of record. The South Thompson has better mid to upper elevation snowpacks, with a snow index of 83% of normal.

Streamflows, as measured by mean monthly flow in the Thompson at Spences Bridge, continued lower than usual at 83% of normal during March.

Top

Columbia Basin


Data Graphs


Snow Survey Data Measurements

April 1

Precipitation at Revelstoke was double normal during March, with temperatures near normal. Cumulative winter precipitation is now near normal, and the overall Columbia snow water index has risen significantly to 84% of normal. Within the basin, mid to upper elevation snowpacks vary from below normal in the Upper Columbia to near normal in the lower Columbia.

Streamflows, as represented by the mean monthly flow in the Columbia River at Donald, continued to be well above normal during March.

Top

Kootenay Basin


Data Graphs


Snow Survey Data Measurements

April 1

Snowpacks in the Kootenays have increased significantly over the last month with the well above normal precipitation experienced in the region. While the overall Kootenay snow water index of mid and upper elevation snow stations is at 82% of normal for April 1, most of the region has slightly less snow than that, except for a band from Castlegar to Fernie and south to the US border which has near normal

snowpacks. Low elevation snow appears to be significantly shallower than normal.

Streamflows, as measured by the mean monthly flow in the Kootenay River at Ft Steele, continued to be low at 83% of normal.

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

April 1

The Okanagan basin was slightly warmer than usual during March, with near normal precipitation at Kelowna. Snowpacks at mid and upper elevations vary considerably, from less than 60% of normal on the west side of the lake, to 70 to 85% of normal along most of the east side of the lake, and near normal in the Upper Mission Cr and Greyback area. A patch of far below normal snowpack appears to run from the hills in the far south east of the Okanagan, crossing up into the western side of the West Kettle. Most of the Kettle appears to have mid to upper elevation snowpacks only slightly below normal, although like the Okanagan low elevation snow is shallow or non-existant.

The Similkameen got much higher than normal precipitation at Princeton over March, and the snow water index there has risen from around 50% last month to near 70% of normal for April 1.

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

Top

Vancouver Island & Coastal Regions


Data Graphs


Snow Survey Data Measurements

April 1

Despite higher than normal cumulative winter precipitation, Vancouver Island snowpacks are below normal, with the snow water index at 78% of normal for April 1, likely due to warmer than usual temperatures through much of the early and mid winter.

The South Coast snow water index of mid and upper elevation stations is only 64% of normal for April 1, despite near normal cumulative winter precipitation, due to the warmer temperatures of previous months.

Limited data from the Central Coast indicates snowpacks there are well below normal for this date.

Streamflows, as represented by the mean monthly inflows to Upper Campbell Lake, were 176% of normal over March, due to the far above normal precipitation.

Top

North East Region


Data Graphs


Snow Survey Data Measurements

April 1

The northeast of BC has the largest snowpacks in the province, with many of the readings in the Liard and northeast Peace above normal for April 1. There are still areas in the southern portion of the Peace basin, however, which have below normal snowpacks. Fort Nelson' mean monthly temperature was around 2 degrees C below normal for March, while precipitation there was almost triple that expected during the month.

Streamflows in the region, as represented by mean monthly inflows to Williston Lake, were above normal during March.

Top

NorthWest Region


Data Graphs


Snow Survey Data Measurements

April 1

Snowpacks in the Northwest vary, from slightly below normal in the eastern portions of the region, including the upper Skeena and upper Stikine, to well below normal for the upper Bulkley. The snow water index for the Skeena Nass overall is up significantly to 79% of normal, while the Stikine index is at 92% of normal. Precipitation over March has been around 50% above normal.

Streamflows in the region, as measured by the mean monthly flow in the Skeena River at Usk, were below normal for the second month.

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UPPER and MIDDLE FRASER

April 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PRINCE GEORGE A	1A10	690	27	37	116	122	67	313	0	118	41
PACIFIC LAKE	1A11	770	27	123	469	697	378	879	290	628	40
BURNS LAKE	1A16	800	31	33	80	140	104	264	0	129	31
PHILIP LAKE	4A13	980	28	95	263	330	176	423	176	287	40
HEDRICK LAKE	1A14	1100	27	151	503	698	439	1046	351	688	36
HEDRICK LAKE	1A14P	1100	01	-	623	964	581	964	581	795*	3
BIRD CREEK	1A23	1180	01	34	88	180	86	270	84	149*	13
KAZA LAKE	1A12	1190	28	102	271	390	312	453	226	338	38
LU LAKE	4B15	1300	31	62	162	352	222	484	170	318	26
FORFAR CREEK (UPPER)	1A24	1410	27	137	372	626	506	760	426B	534	10
EQUITY MINE	4B14	1420	31	94	258	458	332	640	258	405	26
MOUNT SHEBA	4A18	1490	27	182	632	988	522	1146	495	825	34
BARKERVILLE	1A03P	1520	01	-	221	375	263	524	263	387	26
KNUDSEN LAKE	1A15	1580	27	178	539	903	509	1255	485	826	34

MC BRIDE (UPPER)	1A02	1580	26	111	334	406	225	780	225	429	50
NARROW LAKE	1A21	1650	27	180	642	812	642	1350	541	900	28
REVOLUTION CREEK	1A17P	1690	01	-	536	955	453	1222	453	798	17
LONGWORTH (UPPER)	1A05	1740	27	185	614	-	572	1234A	467	784	47
DOME MOUNTAIN	1A19	1820	26	154	499	785	534	1057	416	761	32
MARMOT JASPER	AL12	1830	01	73	170	279	102	422	102	238*	33
YELLOWHEAD	1A01	1860	26	140	403	534	262	770	262	507	51
YELLOWHEAD	1A01P	1860	01	-	544	630	349	784	225	593	6
HOLMES RIVER	1A18	1900	26	178	592	792	443	1029	443	724	33

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

NECHAKO

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
TAHTSA LAKE	1B02	1300	01	258	917	1579	985	1579	775	1179	50
TAHTSA LAKE	1B02P	1300	01	-	966	1597	1103	1686	860	1212	10
KIDPRICE LAKE	4B01	1370	01	189	664	1169	817	1247	622	919	49
MOUNT PONDOSY	1B08P	1400	01	-	564	1094	689	1094	576	798	11

MOUNT WELLS	1B01	1490	01	93	285	625	357	960	356	524	48
NUTLI LAKE	1B07	1490	01	101	301	721	375	724	375	559*	12
MOUNT WELLS	1B01P	1490	01	-	344	695	439	725	402	573	11
MOUNT SWANNELL	1B06	1620	01	61	148	350	215	489	203	305*	14

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

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MIDDLE FRASER

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
BROOKMERE	1C01	980	29	44	146	178	146	399	86	201	58
NAZKO	1C08	1070	26	2	6	63	37	165B	0	61	44
GRANITE MOUNTAIN	1C33	1150	31	32	93	213	137	261	73	181	10
DUFFY LAKE	1C28	1200	31	117	423	553	302	866	244	507	25
LAC LE JEUNE (LOWER)	1C07	1370	28	28	67	110A	73	251	0	97	47
BRIDGE GLACIER (LOWER)	1C39	1400	31	163	558	628	364	1086	364	654*	8
DEADMAN RIVER	1C32	1430	31	20	46	144	118	188	30	105	19
SHOVELNOSE MOUNTAIN	1C29	1450	30	48	80	312	172	442	108	260	24
BRALORNE	1C14	1450	31	40	115	122	103	389	0	178	40

LAC LE JEUNE (UPPER)	1C25	1460	28	44	118	147	100	228	43	135	30
BRENDA MINE	2F18P	1460	01	-	244	418	237	497	227	394	10
BRENDA MINE	2F18	1460	27	68	190	318	178	531	178	318	34
BOSS MOUNTAIN MINE	1C20P	1460	01	-	420	778	443	844	443	615	9
HIGHLAND VALLEY	1C09A	1510	27	26	74	108	60	249	3A	96	37
BARKERVILLE	1A03P	1520	01	-	221	375	263	524	263	387	26
HORSEFLY MOUNTAIN	1C13A	1550	29	98	220	456	418	716	282	464	33
GNAWED MOUNTAIN	1C19	1580	27	31	98	120	76	307	37	126	35
MOUNT TIMOTHY	1C17	1660	01	68	191	317	203	533	186	327	40
YANKS PEAK EAST	1C41P	1670	01	-	521	836	626	994	626	829	6
PENFOLD CREEK	1C23	1680	27	216	779	1103	641	1285	641	1000	27
GREEN MOUNTAIN	1C12P	1780	01	-	917	1064	616	1408	616	896	9
MCGILLIVRAY PASS	1C05	1800	31	168	539	630	417	1118	322	602	50
MISSION RIDGE	1C18P	1850	01	-	430	631	381	908	359	576	16
DOWNTON LAKE (UPPER)	1C38	1890	31	231	748	1000	566	1416	566	900	8
TYAUGHTON CREEK (NORTH)	1C40	1950	31	139	466	536	300	844	300	432	8
BRALORNE (UPPER)	1C37	1980	31	165	590	740	526	1010	526	755	8

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Banner

MIDDLE and LOWER FRASER

April 1, 2003

MIDDLE FRASER

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
BROOKMERE	1C01	980	29	44	146	178	146	399	86	201	58
NAZKO	1C08	1070	26	2	6	63	37	165B	0	61	44
GRANITE MOUNTAIN	1C33	1150	31	32	93	213	137	261	73	181	10
DUFFY LAKE	1C28	1200	31	117	423	553	302	866	244	507	25
LAC LE JEUNE (LOWER)	1C07	1370	28	28	67	110A	73	251	0	97	47
BRIDGE GLACIER (LOWER)	1C39	1400	31	163	558	628	364	1086	364	654*	8
DEADMAN RIVER	1C32	1430	31	20	46	144	118	188	30	105	19
SHOVELNOSE MOUNTAIN	1C29	1450	30	48	80	312	172	442	108	260	24
BRALORNE	1C14	1450	31	40	115	122	103	389	0	178	40
LAC LE JEUNE (UPPER)	1C25	1460	28	44	118	147	100	228	43	135	30
BRENDA MINE	2F18P	1460	01	-	244	418	237	497	227	394	10
BRENDA MINE	2F18	1460	27	68	190	318	178	531	178	318	34
BOSS MOUNTAIN MINE	1C20P	1460	01	-	420	778	443	844	443	615	9

HIGHLAND VALLEY	1C09A	1510	27	26	74	108	60	249	3A	96	37
BARKERVILLE	1A03P	1520	01	-	221	375	263	524	263	387	26
HORSEFLY MOUNTAIN	1C13A	1550	29	98	220	456	418	716	282	464	33
GNAWED MOUNTAIN	1C19	1580	27	31	98	120	76	307	37	126	35
MOUNT TIMOTHY	1C17	1660	01	68	191	317	203	533	186	327	40
YANKS PEAK EAST	1C41P	1670	01	-	521	836	626	994	626	829	6
PENFOLD CREEK	1C23	1680	27	216	779	1103	641	1285	641	1000	27
GREEN MOUNTAIN	1C12P	1780	01	-	917	1064	616	1408	616	896	9
MCGILLIVRAY PASS	1C05	1800	31	168	539	630	417	1118	322	602	50
MISSION RIDGE	1C18P	1850	01	-	430	631	381	908	359	576	16
DOWNTON LAKE (UPPER)	1C38	1890	31	231	748	1000	566	1416	566	900	8
TYAUGHTON CREEK (NORTH)	1C40	1950	31	139	466	536	300	844	300	432	8
BRALORNE (UPPER)	1C37	1980	31	165	590	740	526	1010	526	755	8

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LOWER FRASER

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
SUMMALLO RIVER WEST	3D01C	790	29	34	117	306	150	512B	0	238	11
BROOKMERE	1C01	980	29	44	146	178	146	399	86	201	58

CALLAGHAN CREEK	3A20	1040	01	128	522	882	546	1604	192	902	26
DISAPPOINTMENT LAKE	1D18P	1040	Not Available			1930P	1248P	1966	1248P	1715*	3
DICKSON LAKE	1D16	1070	28	246	1004	1980A	1108	2990A	738	1547	11
DOG MOUNTAIN	3A10	1080	31	104	421	1622	746	2720A	51	1223	58
BEAVER PASS	WA12	1120	30	135	559	866	322	1849	94	790*	58
KLESILKWA	3D03A	1130	28	43	125	497	92	792	0	293	55
SPUZZUM CREEK	1D19P	1180	01	-	1159	2096	1031	2096	1031	1641*	3
DUFFEY LAKE	1C28	1200	31	117	423	553	302	866	244	507	25
STAVE LAKE	1D08	1210	28	265	984	1667	954	2750A	579	1554	35
WAHLEACH LAKE	1D09	1400	28	136	465	796	491	1270	125	659	35
WAHLEACH LAKE	1D09P	1400	01	-	850	1344	878	1380P	634	1154	11
NAHATLATCH RIVER	1D10	1520	28	298	1171	1497	772	2410A	749	1417	35
EASY PASS	WA13	1580	Not Available			-	-	3094	996	2061*	31
CHILLIWACK RIVER	1D17P	1600	01	-	1268	1894	1069	1894	1040	1372*	9
GREAT BEAR	1D15P	1660	01	-	1331	1973	998	2400	998	1784	11
TENQUILLE LAKE	1D06	1680	31	295	1071	1244	780	1795	605	1159	50
TENQUILLE LAKE	1D06P	1680	01	-	1080	1193	713	1193	713	953*	2

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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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
SUMALLO RIVER WEST	3D01C	790	29	34	117	306	150	512B	0	238	11

FREEZEOUT CREEK TRAIL	WA11	1070	29	56	208	353	117	665	8	306*	58
BEAVER PASS	WA12	1120	30	135	559	866	322	1849	94	790*	58
KLESILKWA	3D03A	1130	28	43	125	497	92	792	0	293	55
LIGHTNING LAKE	3D02	1220	28	73	238	330	175	622	140	305	55
HARTS PASS	WA09	1980	29	259	932	1430	587	1725	541	1092*	60
HARTS PASS	WA09P	1980	01	-	655	1217	546	1770	546	1099*	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

THOMPSON

April 1, 2003

NORTH THOMPSON

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
BLUE RIVER	1E01B	670	31	47	154	283	238	425	186	276	20
KNOUFF LAKE	1E05	1200	30	27	96	153	122	274	58	144	47
COOK CREEK	1E14P	1280	01	-	409	638	495	664	495	599*	3
COOK FORKS	1E06	1390	29	198	680	940A	656	1394	530A	897	40
BOSS MOUNTAIN MINE	1C20P	1460	01	-	420	778	443	844	443	615	9
MOUNT COOK	1E02P	1550	01	-	1133	1406	939	1406	939	1173*	2
MOUNT COOK	1E02A	1580	29	272	907	1240A	845	1709	790A	1271	29
AZURE RIVER	1E08	1620	27	245	893	1137	686	1422A	686	1086	33
AZURE RIVER	1E08P	1620	01	-	919	1215	716	1511	716	1155	6

ADAMS RIVER	1E07	1720	29	156	520	810	540	1069	435	707	33
KOSTAL LAKE	1E10P	1770	01	-	641	897	635	1165	618	878	18
NORTH CLEMINA CREEK	1E13	1860	26	199	669	916	562	1018	560	808	14
TROPHY MOUNTAIN	1E03A	1860	30	116	332	634	412	888	366	545	29

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

SOUTH THOMPSON

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
ANGLEMONT	1F02	1190	27	77	215	333	268	561	142	353	45
ABERDEEN LAKE	1F01A	1310	27	36	99	121	89	259	6	143	64
MONASHEE PASS	2E01	1370	05	105	295	312	188	517	188	343	54
BOULEAU LAKE	2F21	1400	30	70	230	282	172B	564	172B	354	32
ADAMS RIVER	1E07	1720	29	156	520	810	540	1069	435	707	33
KIRBYVILLE LAKE	2A25	1750	27	272	945	1339	870	1816	701	1189	30
SILVER STAR MOUNTAIN	2F10	1840	29	188	640	827	464	1115	414	760	44
PARK MOUNTAIN	1F03P	1890	01	-	762	908	549	1207	549	867	18

ENDERBY	1F04	1900	31	246	920	1169	618	1430	610	1019	40

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

					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
BROOKMERE	1C01	980	29	44	146	178	146	399	86	201	58
NAZKO	1C08	1070	26	2	6	63	37	165B	0	61	44
GRANITE MOUNTAIN	1C33	1150	31	32	93	213	137	261	73	181	10
DUFFY LAKE	1C28	1200	31	117	423	553	302	866	244	507	25
LAC LE JEUNE (LOWER)	1C07	1370	28	28	67	110A	73	251	0	97	47
BRIDGE GLACIER (LOWER)	1C39	1400	31	163	558	628	364	1086	364	654*	8
DEADMAN RIVER	1C32	1430	31	20	46	144	118	188	30	105	19
SHOVELNOSE MOUNTAIN	1C29	1450	30	48	80	312	172	442	108	260	24
BRALORNE	1C14	1450	31	40	115	122	103	389	0	178	40
LAC LE JEUNE (UPPER)	1C25	1460	28	44	118	147	100	228	43	135	30
BRENDA MINE	2F18P	1460	01	-	244	418	237	497	227	394	10
BRENDA MINE	2F18	1460	27	68	190	318	178	531	178	318	34

BOSS MOUNTAIN MINE	1C20P	1460	01	-	420	778	443	844	443	615	9
HIGHLAND VALLEY	1C09A	1510	27	26	74	108	60	249	3A	96	37
BARKERVILLE	1A03P	1520	01	-	221	375	263	524	263	387	26
HORSEFLY MOUNTAIN	1C13A	1550	29	98	220	456	418	716	282	464	33
GNAWED MOUNTAIN	1C19	1580	27	31	98	120	76	307	37	126	35
MOUNT TIMOTHY	1C17	1660	01	68	191	317	203	533	186	327	40
YANKS PEAK EAST	1C41P	1670	01	-	521	836	626	994	626	829	6
PENFOLD CREEK	1C23	1680	27	216	779	1103	641	1285	641	1000	27
GREEN MOUNTAIN	1C12P	1780	01	-	917	1064	616	1408	616	896	9
MCGILLIVRAY PASS	1C05	1800	31	168	539	630	417	1118	322	602	50
MISSION RIDGE	1C18P	1850	01	-	430	631	381	908	359	576	16
DOWNTON LAKE (UPPER)	1C38	1890	31	231	748	1000	566	1416	566	900	8
TYAUGHTON CREEK (NORTH)	1C40	1950	31	139	466	536	300	844	300	432	8
BRALORNE (UPPER)	1C37	1980	31	165	590	740	526	1010	526	755	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

April 1, 2003

UPPER COLUMBIA

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
DOWNIE SLIDE (LOWER)	2A27	980	27	145	502	704	448	1062	448	680	26
GLACIER	2A02	1250	01	169	611	665	485	1161	371B	730	66
FIELD	2A03A	1280	26	33	86	96	96	251	8	153	63
SUNWAPTA FALLS	AL11	1400	01	61	175	198	119	333	89	195*	34
VERMONT CREEK	2A19	1520	05	98	295	430	190	843	190	446	37
AZURE RIVER	1E08	1620	27	245	893	1137	686	1422A	686	1086	33
AZURE RIVER	1E08P	1620	01	-	919	1215	716	1511	716	1155	6
DOWNIE SLIDE (UPPER)	2A29	1630	27	305	1120	1490	890	2360A	858	1347	25
KICKING HORSE	2A07	1650	26	100	272	271	185	589	185	346	55
KIRBYVILLE LAKE	2A25	1750	27	272	945	1339	870	1816	701	1189	30
MOUNT REVELSTOKE	2A06P	1830	01	-	1077	1307	848	1686	709	1230	10

NORTH CLEMINA CREEK	1E13	1860	26	199	669	916	562	1018	560	808	14
FIDELITY MOUNTAIN	2A17	1870	27	282	1016	1359	795	1951	730	1248	40
KEYSTONE CREEK	2A18	1890	27	192	614	829	485	1388	485	827	36
BEAVERFOOT	2A11	1890	05	63	152	196	106	460	105	222	43
NIGEL CREEK	AL10	1920	01	133	272	437	208	700	198	428*	34
GOLDSTREAM	2A16	1920	27	267	951	1264	849	1638A	785	1157	39
BUSH RIVER	2A23	1920	27	227	700A	864	502	1331	455	865	36
MOLSON CREEK	2A21P	1980	01	-	945	1223	690	1223	651	1014	20
MOUNT ABBOT	2A14	1980	28	293	1015	1414	715	1849	698	1256	44
SUNBEAM LAKE	2A22	2010	27	230	762	936	590	1384	590	917	36
MIRROR LAKE	AL06	2030	01	86	234	368	161	561	160	302*	63
BOW SUMMIT II	AL07A	2080	01	108	290	439	180	584B	180	366*	24

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

					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
FERGUSON	2D02	880	01	109	421	499	319	881	142	587	65
BAIRD	WA02	980	26	51	137	226	142	363	0	157*	43

FARRON	2B02A	1220	27	78	243	310	162	480	162	330	30
MONASHEE PASS	2E01	1370	05	105	295	312	188	517	188	343	54
WHATSHAN (UPPER)	2B05	1480	05	168	580	601	350	964	350	668	45
BARNES CREEK	2B06	1620	05	165	520	482	299	768	299	518	46
BARNES CREEK	2B06P	1620	01	-	593	544	323	773	323	546	10
ST. LEON CREEK	2B08	1800	05	294	1107	1451	-	1831	818	1253	34
ST. LEON CREEK	2B08P	1800	01	-	1001	1256	581	1553	581	1133	9
KOCH CREEK	2B07	1860	Not Measured			733	397	1156	397	755	44
RECORD MOUNTAIN	2B09	1890	27	202	748	810	356	1307	315	752	28
EAST CREEK	2D08P	2030	01	-	690	-	442	1245	442	922	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

April 1, 2003

EAST KOOTENAY

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
KISHENEHN	MT01	1190	30	48	147	284	104	465	36	203*	56
FERNIE EAST	2C07	1250	31	63	217	407	156	605	151	335	51
SINCLAIR PASS	2C01	1370	26	25	64	96	70	262A	36	135	66
MARBLE CANYON	2C05	1520	26	87	288	353	193	587A	168	364	56
BRUSH CREEK TIMBER	MT03	1520	26	41	119	226	127	434	76	245*	51
SULLIVAN MINE	2C04	1550	26	81	238	297	160	538	137	313	57
WEASEL DIVIDE	MT02	1660	31	180	678	1016	312	1346	312	830*	62
KIMBERLEY (MIDDLE)V O R	2C12	1680	30	76	221	254B	141	462	141	279	34
BANFIELD MOUNTAIN	MT05	1710	27	130	391	-	236	919	236	539*	32

BANFIELD MOUNTAIN	MT05P	1710	01	-	416	561	279	739	279	477*	5
MOUNT JOFFRE	2C16	1750	05	108	299	474	179	711	179	388	34
MORRISSEY RIDGE	2C09Q	1800	01	-	675	866	360	1224	360	744	19
RED MOUNTAIN	MT04	1830	27	150	411	544	224	810	211	483*	64
MOYIE MOUNTAIN	2C10P	1930	01	-	424	540	258	679	216	401	23
HAWKINS LAKE	MT06	1970	28	198	648	869	-	1313	399	761*	30
HAWKINS LAKE	MT06P	1970	01	-	597	782	310	1001	310	613*	5
WILKINSON SUMMIT (BUSH)	AL03	1980	28	63	172	224	100	460	100	215*	39
ALLISON PASS	AL01	1980	28	117	375	432	247	823	247	484*	39
THUNDER CREEK	2C17	2010	Not Measured			277	140A	475	140A	287	33
FLOE LAKE	2C14	2090	05	207	691	806	430	1242	411	791	33
FLOE LAKE	2C14P	2090	01	-	653	769	394	1001	360	724	8
KIMBERLEY (UPPER) V O R	2C11	2140	30	125	383	457B	197	798	197	467	34
HIGHWOOD SUMMIT (BUSH)	AL02	2210	31	117	323	503	180	681	180	395*	32
MOUNT ASSINIBOINE	2C15	2230	05	161	460	600	252	816	252	551	34
SUNSHINE VILLAGE	AL05	2230	01	164	493	658	277	996	277	604*	36

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FERGUSON	2D02	880	01	109	421	499	319	881	142	587	65
NELSON	2D04	930	26	75	237	374	202	622	137	372	65
SANDON	2D03	1070	01	77	289	294	262	585	71	357	64
CHAR CREEK	2D06	1310	01	139	510	534	273	940	273	563	37
SMITH CREEK	ID01	1460	01	239	986	1087	508	1940	508	1119*	61
BUNCHGRASS MEADOW	WA01P	1520	01	-	742	830	414	1214	414	813*	5
GRAY CREEK (LOWER)	2D05	1550	02	125	404	-	331	688	290	472	54
KOCH CREEK	2B07	1860	Not Measured			733	397	1156	397	755	44
MOUNT TEMPLEMAN	2D09	1860	05	278	1010A	1065	-	1608	688	1076	33
GRAY CREEK (UPPER)	2D10	1910	Not Measured			-	492	1123	492	783	33
EAST CREEK	2D08P	2030	01	-	690	-	442	1245	442	922	21
REDFISH CREEK	2D14P	2104	01	-	1193	1519	-	1519	1519	1519*	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

KETTLE, OKANAGAN and SIMILKAMEEN

April 1, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FARRON	2B02A	1220	27	78	243	310	162	480	162	330	30
GOAT CREEK	WA04	1220	27	20	68	89	-	274	0	112*	38
CARMI	2E02	1250	30	17	60	118	82	290	14	142	40
MONASHEE PASS	2E01	1370	05	105	295	312	188	517	188	343	54
SUMMIT G.S.	WA05	1400	27	66	226	170	157	338	23	207*	40
BIG WHITE MOUNTAIN	2E03	1680	30	125	428	534	332	762	332	507	37
GRANO CREEK	2E07P	1860	01	-	454	626	334	769	334	573*	5
BLUEJOINT MOUNTAIN	2E06	2040	Not Measured		761	329	1175	329	742		25

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
MC CULLOCH	2F03	1280	01	16	52	154	108	249	38	155	65
SUMMERLAND RESERVOIR	2F02	1280	27	46	126	240	116	389	96	226	66
ABERDEEN LAKE	1F01A	1310	27	36	99	121	89	259	6	143	64
OYAMA LAKE	2F19	1340	31	31	88	183	122	255	61	170	32
POSTILL LAKE	2F07	1370	31	51	164	227	160	348	109	224	52
VASEUX CREEK	2F20	1400	27	26	42	108	72	239	72	157	32
BOULEAU LAKE	2F21	1400	30	70	230	282	172B	564	172B	354	32
TROUT CREEK	2F01	1430	24	43	130B	215A	117	396	52	182	66
ESPERON CR (MIDDLE)	2F14	1430	30	67	212	366	196	607	196	372	35
BRENDA MINE	2F18	1460	27	68	190	318	178	531	178	318	34
BRENDA MINE	2F18P	1460	01	-	244	418	237	497	227	394	10
ISLAHT LAKE	2F24	1480	27	66	189	373	165A	501	165A	349	20
GREYBACK RESERVOIR	2F08	1550	27	76	247	194	151	351	114	233	49
ESPERON CR (UPPER)	2F13	1650	30	87	254	482	244	805	244	435	34
ISINTOK LAKE	2F11	1680	27	45	110	167	129	424	66	183	38
MACDONALD LAKE	2F23	1740	27	100	300	540	272	677	257	463	26
MUTTON CREEK NO. 1	WA07	1740	25	107	381B	358	173	721	79	345*	62
MISSION CREEK	2F05P	1780	01	-	458	600	326	728	278	472	31
MOUNT KOBAU	2F12	1810	30	87	297	320	220	602	105	318	37

GRAYSTOKE LAKE	2F04	1810	26	110	284	404	196	828	196	405	33
WHITEROCKS MOUNTAIN	2F09	1830	31	103	343	676	318	1021	318	586	48
SILVER STAR MOUNTAIN	2F10	1840	29	188	640	827	464	1115	414	760	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

					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
BROOKMERE	1C01	980	29	44	146	178	146	399	86	201	58
FREEZEOUT CREEK TRAIL	WA11	1070	29	56	208	353	117	665	8	306*	58
LIGHTNING LAKE	3D02	1220	28	73	238	330	175	622	140	305	55
HAMILTON HILL	2G06	1490	27	82	244	399	226	851	164	356	43
MISSEZULA MOUNTAIN	2G05	1550	27	46	123	254	152	516B	104	242	42
ISINTOK LAKE	2F11	1680	27	45	110	167	129	424	66	183	38
LOST HORSE MOUNTAIN	2G04	1920	29	57	174	265	178	533	146E	243	40
BLACKWALL PEAK	2G03P	1940	01	-	623	1043	405	1494	400	833	35
HARTS PASS	WA09	1980	29	259	932	1430	587	1725	541	1092*	60
HARTS PASS	WA09P	1980	01	-	655	1217	546	1770	546	1099*	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

April 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09	880	Not Available			1863	937	3560A	285	1440	55
PALISADE LAKE	3A09P	880	Not Available			-	-	1680	678	1179*	2
POWELL RIVER (LOWER)	3A05	910	Not Available			844	508	1554	85	743	44
CHAPMAN CREEK	3A26	1022	Not Available			1622Z	958	1728Z	704	1498	9
POWELL RIVER (UPPER)	3A02	1040	Not Available			1092	791	1813	467	1046	41
CALLAGHAN CREEK	3A20	1040	01	128	522	882	546	1604	192	902	26
DOG MOUNTAIN	3A10	1080	31	104	421	1622	746	2720A	51	1223	58
GROUSE MOUNTAIN	3A01	1100	31	140	600	1752	930	2670A	44	1203	67

ORCHID LAKE	3A19	1190	Not Available			1895	1254	3770A	980	1905	30
ORCHID LAKE	3A19P	1190	01	-	1430	1836	1220	3819	1220	1984*	16
UPPER SQUAMISH RIVER	3A25P	1340	01	-	1406	1553	1039	1853	1039	1620	12
NOSTETUKO RIVER	3A22P	1500	01	-	417	626	-	988	359	621*	12
UPPER MOSELY CREEK	3A24P	1650	01	-	135	263	201	567	155	289*	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

					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
WOLF RIVER (LOWER)	3B19	640	04	51	164	458	226	1198	0	381	31
TENNENT LAKE	3B22	950	04	204	716	1300Z	-	2830A	432	1034	15
UPPER THELWOOD LAKE	3B10	980	04	273	1124	1576	1126	3200A	492	1554	43
MARGARET LAKE	3B21	1040	26	398	1606	1734B	1434	2570A	540	1873	25
WOLF RIVER (MIDDLE)	3B18	1070	04	162	532	666	392	1706	0	664	31

FORBIDDEN PLATEAU	3B01	1130	04	315	1224	1484	1161	3550A	413	1595	48
JUMP CREEK	3B23P	1160	01	-	649	1556	788	1643	401	1208	6
MOUNT COKELY	3B02A	1190	01	167	692	994	584	2100A	331	864	23
SPROAT LAKE	3B20	1220	26	349	1351	-	1152	2265	462	1600	24
WOLF RIVER (UPPER)	3B17P	1490	01	-	1454	1250	948	1878	796	1420	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

					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
WEDEENE RIVER SOUTH	3C07	300	28	79	308	576	300A	733	36	364*	19
TAHTSA LAKE	1B02	1300	01	258	917	1579	985	1579	775	1179	50
TAHTSA LAKE	1B02P	1300	01	-	966	1597	1103	1686	860	1212	10
BURNT BRIDGE CREEK	3C08P	1330	01	-	420	1028	566	1028	201	683*	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

April 1, 2003

PEACE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FORT ST. JOHN A	4A25	690	30	48	133	126	6	210	0	102	29
MACKENZIE A	4A19	700	30	64	234					226	31
PACIFIC LAKE	1A11	770	27	123	469					628	40
BULLHEAD MOUNTAIN	4A28	790	01	39	106					95	18
PHILIP LAKE	4A13	980	28	95	263					287	40
WARE (LOWER)	4A04	980	29	76	202					188	40
AIKEN LAKE	4A30P	1040	01	-	225					258	16
TUTIZZI LAKE	4A06	1070	28	97	257					255	39
TSAYDAYCHI LAKE	4A12	1160	28	124	338					394	39
PINK MOUNTAIN	4A14	1170	31	34	71					85	39
KAZA LAKE	1A12	1190	28	102	271					338	37
FREDRICKSON LAKE	4A10	1310	28	82	218					245	38

PULPIT LAKE	4A09P	1310	01	-	433					411	12
PULPIT LAKE	4A09	1310	29	140	357					402	38
PINE PASS	4A02P	1400	01	-	844					1101	11
TRYGVE LAKE	4A11	1400	28	118	310					359	38
SIKANNI LAKE	4C01	1400	29	89	254					268	37
PINE PASS	4A02	1430	27	263	870					1150	39
MORFEE MOUNTAIN	4A16	1450	27	217	689					854	35
LADY LAURIER LAKE	4A07	1460	29	147	407					503	36
MOUNT SHEBA	4A18	1490	27	182	632					825	32
GERMANSEN (UPPER)	4A05	1500	28	107	293					352	42
MOUNT STEARNS	4A21	1500	29	55	154					148	28
JOHANSON LAKE	4B02	1540	28	100	280					291	40
MONKMAN CREEK	4A20	1550	27	115	313					593	24
BULLMOOSE CREEK	4A31	1570	28	118	330					510	15
WARE (UPPER)	4A03	1570	Not measured								40
KWADACHA RIVER	4A27P	1620	01	-	304					*341	18

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

MONKMAN CREEK, 4A20 - April 1, 2003 data changed on April 8, 2003

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	69	155					95	37
WATSON LAKE A	YK01	700	27	70	141					125*	36
FRANCES RIVER	YK02	730	27	71	151					150*	26
DEASE LAKE	4C03	820	01	62	181					136	38
JADE CITY	4C15	940	28	72	174					218*	1
SUMMIT LAKE	4C02	1280	Not Available							114	35
DEADWOOD RIVER	4C09P	1300	01	-	154					146*	9
SIKANNI LAKE	4C01	1400	29	89	254					268	40

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

April 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SPEEL RIVER	AK03	80	01	145	518	800	386	1402	300	775*	34
TELEGRAPH CREEK	4D01	580	01	46	109	114	118	343	37	156	28
NINGUNSAW PASS	4B10	690	01	103	353	434Z	353	620	231	438	28
DEASE LAKE	4C03	820	01	62	181	120	50A	259	50A	136	38
ISKUT	4D02	1000	31	54	130	110A	52	167	0	107	28
KINASKAN LAKE	4D11P	1020	01	-	435	349	311	570	256	374*	12
TUMEKA CREEK	4D10P	1220	01	-	484	506	515	869	387	604*	13
WADE LAKE	4D14P	1370	01	-	315	296	325	527	232	347*	11

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
ATLIN LAKE	4E02A	730	29	38	98	139	101	197	50	118*	19
LOG CABIN	4E01	880	25	87	207B	467B	440	596	213	372	43
PINE LK AIRSTRIP	YK03	1010	28	78	156	194B	199	351	122	222*	27
MONTANA MTN.	YK05	1020	31	55	134	144B	87	217A	84	137*	26
TAGISH	YK04	1080	28	53	107	142	102	177	73	133*	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

SKEENA/NASS

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
TERRACE A	4B13A	180	31	5	19	192	96	333	0	84*	23
BEAR PASS	4B11A	460	Not Available			604	519	900	408	706	19
NINGUNSAW PASS	4B10	690	01	103	353	434Z	353	620	231	438	28
GRANDUC MINE	4B12P	790	01	-	1609	1815	-	1815	1815	1815*	1

CEDAR-KITEEN	4B18P	885	01	-	454	773	589	773	589	681*	2
MCKENDRICK CREEK	4B07	1050	27	91	254	311	210	427	183	297	35
TACHEK CREEK	4B06	1140	31	73	178	264	187	362	112	232	35
KAZA LAKE	1A12	1190	28	102	271	390	312	453	226	338	38
LU LAKE	4B15	1300	31	62	162	352	222	484	170	318	26
LU LAKE	4B15P	1310	01	-	169	398	-	398	154	271*	4
TSAI CREEK	4B17P	1360	01	-	919	1534	971	1534	938	1141*	5
KIDPRICE LAKE	4B01	1370	01	189	664	1169	817	1247	622	919	49
TRYGVE LAKE	4A11	1400	28	118	310	426	299	493	257	359	40
EQUITY MINE	4B14	1420	31	94	258	458	332	640	258	405	26
CHAPMAN LAKE	4B04	1460	27	138	392	577	384	762	315	474	38
HUDSON BAY MTN.	4B03A	1480	28	130	399	609	388	846	356	524	31
MOUNT CRONIN	4B08	1480	27	165	477	686	510	1097	433	612	34
SHEDIN CREEK	4B16P	1480	01	-	731	1005	919	1039	758	901*	7
JOHANSON LAKE	4B02	1540	28	100	280	337	266	417	173	291	40

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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Banner

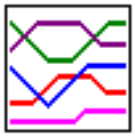
Snowpack and Water Supply Outlook for British Columbia

May 1, 2003

Due to technical problems "0" no snow readings were not placed in data tables when reposted on the 12th. They have been added in red where appplicable.

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



B.C Summary Graphs of Snow Water Equivalents

Manual snow surveys have been conducted at 158 BC snow courses. These, together with data from 59 BC snow pillows, 20 out of province snow survey locations, and meteorological and streamflow data from Environment Canada, have been used in making the following analyses.

Snowpack

May 1 snowpacks vary considerably throughout the province, however many in the southern 2/3 are in the 80% to 90% of normal range. The Upper Fraser and Nechako basins have well below normal snowpacks, and the interior plateau from the Chilcotin to the Nicola, where any snow remains, appear to have had around half of normal snow. The southwest Okanagan and the Similkameen have well below normal snowpacks, as do the mountains on the north side of the Fraser Valley from Vancouver to Hope. The only area with above normal snowpacks is the Liard basin, with around 110% of normal for May 1. The Bridge River area in the Middle Fraser, Lillooet basin in the Lower Fraser, and Kettle River basin all appear to have near normal snowpacks.

Weather

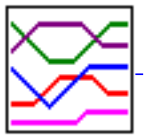
Corrected and previously unpublished data
2003 groundwater graphs
2003 Snow pillow graphs

As indicated by Environment Canada valley bottom weather stations, weather during April has been slightly warmer than usual over much of the province, slightly cooler in the far northwest. Precipitation has varied from below normal in the far northwest, to well above normal in most of the Fraser and southwest, to near normal in the Kootenay and Columbia basins.

Outlook

Freshet volumes in the Liard may be above normal, however they will likely be below to well below normal in most of the rest of the province. Unless the late spring and early summer is wetter than usual, the plateau areas of the central interior will have much less runoff than usual. If the late spring and summer are dry, the lower mainland and the south half of the west side of Okanagan Lake may experience water shortages.

Upper Fraser & Nechako Basins


Data Graphs


Snow Survey Data Measurements

May 1

Snowpacks are well below normal in the Upper Fraser, with the overall basin snow water index at 69% of normal for May 1, down slightly from April 1. Some readings are minimums of record. However, the portion of the Upper Fraser above McBride appears to have larger snowpacks, around 80% of normal for this time of year.

The overall Nechako basin snow index is up slightly at 75% of normal, however there is some variation across the region. The plateau area appears to have less (60-70% range), and some of the individual snow readings are minimums of record. The upper Stuart basin, from limited data, appears to have only slightly below normal snowpacks.

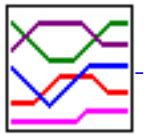
Although cumulative precipitation since November has been only slightly less than usual, the much warmer November through January in these basins has left less low to mid elevation snow than these overall snow indexes might indicate.

Note that the precipitation index station for the Nechako in the data graphs has been changed to Wisteria, on the north shore of Ootsa Lake, as Fort St James data has usually not been available at publishing time. Therefore this accumulated winter precipitation index is now more representative of the reservoir portion of the Nechako than the Stuart River.

Regional streamflows, as represented by the mean monthly flow in the Fraser River at Marguerite, were slightly above normal during April.

Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

May 1

Despite a much higher than usual precipitation in the Middle Fraser (Quesnel data) during April, the cumulative winter precipitation since November is still only at 74% of normal, due to the previous quite dry 5 months. Temperatures during April were slightly warmer than usual overall.

Most of the mountain snowpacks in the Middle Fraser basin are less than usual for this date. The overall basin snow water index is at 83% of normal for May 1, up from 74% on April 1, however, within the basin the snowpack varies, with much of the plateau and mountains along the divide with the Thompson basin actually at less than 70% of normal snowpacks. Many of the individual readings are minimums of record. The central plateau, (Chilcotin through to the Nicola), may see some water shortages in smaller streams unless there is a wetter than usual summer.

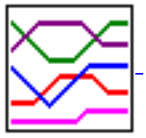
However, the southwest portion of the Middle Fraser (Bridge River area) has had higher precipitation this winter, with normal to above normal snowpacks there. This heavier snowpack extends south into most of the Lillooet basin in the Lower Fraser.

The snow index for mid and upper elevation snow stations in the Lower Fraser overall is up slightly from last month, to 73% of normal for May 1. However, the mountains north of Vancouver and the lower mainland appear to have well below normal snowpacks, and if the remainder of spring and summer are drier than usual there could be some water shortages.

Regional streamflows, as represented by the mean monthly flow in the Fraser River at Hope, were slightly above normal during April due to slightly warmer mean temperatures, and higher precipitation than normal, through most of the Fraser basin.

Top

Thompson Basin



Data Graphs

Snow Survey Data Measurements

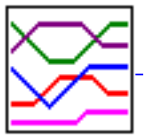
May 1

Precipitation in the North and South Thompson was twice the usual during April, however cumulative winter total precipitation is still only slightly above normal. Blue River mean monthly temperature during April was 1.5 degrees C above normal, continuing the above normal temperatures in the Thompson we have seen all winter. While snowpacks are still below normal, the snow water index of mid and upper elevation snow stations is up slightly from last month in both the North and South Thompson basins. The North Thompson snow index is at 82%, and the South Thompson is at 86% of normal for May 1. Low to mid elevation snow is less than those percentages due to the warm early and mid-winter.

Due to the higher than usual precipitation, streamflows, as measured by mean monthly flow in the Thompson at Spences Bridge were normal during April, after below normal flows all winter.

· Top

Columbia Basin



Data Graphs

Snow Survey Data Measurements

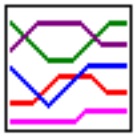
May 1

The snowpacks in the Upper & Lower Columbia overall are slightly below normal, with the snow water index slightly higher than last month, at 89% of normal for May 1. This is fairly consistant through this region, with slightly less in the very upper Columbia, and slightly more along the divide to the Kettle on the lower Columbia. While precipitation over the winter has varied, both April and cumulative winter precipitation to May 1 have been near normal.

Streamflows, as represented by the mean monthly flow in the Columbia River at Donald, was normal during April.

Top

Kootenay Basin


Data Graphs


Snow Survey Data Measurements

May 1

The snow water index for the Kootenays overall is at 89% of normal for May 1. While this is a reasonable estimate of snowpacks in the West Kootenays, snowpacks in the East Kootenays vary. The northern half of the East Kootenays has mid to upper elevation snowpacks mostly in the 70% to 85% of normal range, while the southern portions of the East Kootenays appear to have snowpacks in the 85% to 100% of normal range for May 1. Although precipitation has varied a lot over the winter, April precipitation was only slightly above normal, and cumulative winter precipitation is near normal.

Streamflows, as measured by the mean monthly flow in the Kootenay River at Ft Steele, were slightly below normal during April, as they have been for the last few months.

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

May 1

The snow water index of mid and upper elevation stations in the Okanagan- Kettle is at 81% of normal for the area overall, however there is considerable variation in snow across the region. The Kettle basin appears to have a near normal snowpack for May 1, as does the upper Mission Creek area of the Okanagan. However, while the north and east Okanagan outside of upper Mission has somewhat below normal snowpacks, the more southerly west side of the lake has well to far below normal snow for this date. If the remainder of spring and summer are drier than normal, the central to southern parts of the west side of Okanagan Lake may experience water shortages.

Little low and mid elevation snow accumulated this winter due to generally drier than normal conditions and a very warm December and January. While April has had well above normal precipitation, cumulative winter total precipitation is only at 88% of normal at Kelowna.

In the Similkameen, results of snow measurements show the snowpack similiar to last month, well below normal at 70% of normal for May 1. While the month of April had much higher than usual precipitation (and a slightly warmer than usual mean monthly temperature), overall winter precipitation since November 1 is near normal.

Streamflows in the region, as represented by the monthly inflows to Okanagan Lake, were around 15% less than normal over the month of April.

· Top

Vancouver Island & Coastal Regions

Data Graphs

Snow Survey Data Measurements

May 1

The overall snow water equivalent index for Vancouver Island is 88% of normal for May 1, however it appears central Island mid to upper elevation snowpacks are near normal, with southern Island snowpacks well below normal.

On the South Coast, the overall snow index is up slightly but still well below normal at 67% of normal for May 1. While April had nearly twice normal precipitation at Vancouver, cumulative winter precipitation is normal, however warmer temperatures than usual through parts of the winter reduced snow accumulation. Extreme southern coastal areas appear to have the least snow, with only slightly below normal snowpacks in the Coast range beginning north of Squamish, along the storm track which brought heavy snow into the Lillooet and Bridge basins.

From very sparse data, the Central coast appears to have a below normal snowpack.

Regional streamflows, as represented by the mean monthly inflows to Upper Campbell Lake, were around 50% higher than normal over April.

Top

North East Region


Data Graphs


Snow Survey Data Measurements

May 1 Snowpacks in the Peace basin are slightly normal for May 1, with the snow water index at 83% of normal, similiar to last month, however snowpacks vary within the basin. Northern and eastern portions of the Peace appear to have only slightly below normal snow, lessening to the southeast parts with 60-70% of normal snowpacks.

The Liard, from sparse data, still appears to have slightly above normal snowpacks.

Streamflows in the region, as represented by mean monthly inflows to Williston Lake, were almost 50% higher than normal during April, due to runoff from warm temperatures near the end of April.

Top

NorthWest Region


Data Graphs


Snow Survey Data Measurements

May 1

The Skeena/Nass basins still have below normal snowpacks, with the snow water equivalent index up slightly from last month at 82% of normal for May 1. Smithers weather has been slightly warmer than usual during April, with slightly higher than normal precipitation over the month.

The Stikine basin has been much drier than usual during April, with the result that the cumulative precipitation over the winter, while still above normal, dropped slightly since April 1. The Stikine snow index is down slightly to 82% of normal this month, from April first's 92% value.

Streamflows in the region, as measured by the mean monthly flow in the Skeena River at Usk, were 30% above normal over April.

Banner

UPPER and MIDDLE FRASER

May 1, 2003

UPPER FRASER

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
PACIFIC LAKE	1A11	770	26	72	324	745	361	950	93	530	38
PHILIP LAKE	4A13	980	27	58	226	320	127	406	0	201	39
HEDRICK LAKE	1A14	1100	26	99	431	875	460	1090A	263	648	36
HEDRICK LAKE	1A14P	1100	01	-	641	1054	585	1054	585	825*	3
BIRD LAKE	1A23	1180	28	0	0	184	68	184	0	37	13
KAZA LAKE	1A12	1190	27	88	283	405	308	470	201	330	37
LU LAKE	4B15	1300	30	46	144	426	198	444	155A	264*	23
FORFAR CREEK (UPPER)	1A24	1410	28	124	438	802	466	802	462	558	9
EQUITY MINE	4B14	1420	30	78	242	560	284	620	212	383	25
MOUNT SHEBA	4A18	1490	26	180	674	1191	609	1251	503	876	34
BARKERVILLE	1A03P	1520	01	-	165	405	236	604	169	350	26
KNUDSEN LAKE	1A15	1580	26	163	645	1107	656	1346A	501	874	34
MC BRIDE (UPPER)	1A02	1580	25	92	302	469	271	790	241	433	35
NARROW LAKE	1A21	1650	26	169	699	1063	779	1414	648	978	28

REVOLUTION CREEK	1A17P	1690	01	-	495	1105	495	1211	495	789	17
LONGWORTH (UPPER)	1A05	1740	26	149	586	1236	688	1476A	391	824	50
DOME MOUNTAIN	1A19	1820	25	144	561	1033	624	1138	452	844	30
MARMOT JASPER	AL12	1830	30	50	163	292	142	401	0	231*	31
YELLOWHEAD	1A01	1860	25	121	431	578	321	805A	318	528	52
YELLOWHEAD	1A01P	1860	01	-	581	735	398	836	364	641	6
HOLMES RIVER	1A18	1900	25	172	669	917	526	1140	518	803	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

NECHAKO

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
SKINS LAKE	1B05	880	28	0	0	0T	0	100	0	3	34
TAHTSA LAKE	1B02	1300	28	230	1002	1628	1110	1770	701	1258	51
TAHTSA LAKE	1B02P	1300	01	-	1018	1798	1231	1798	866	1320	10
KIDPRICE LAKE	4B01	1370	28	185	704	1265	873	1367	551	935	51
MOUNT PONDOSY	1B08P	1400	01	-	631	1277	741	1277	546	813	9
MOUNT WELLS	1B01	1490	28	88	326	721	419	958	309	515	48

NUTLI LAKE	1B07	1490	28	115	391	806	422	806	331	526*	12
MOUNT WELLS	1B01P	1490	01	-	381	789	488	792	405	598	11
MOUNT SWANNELL	1B06	1620	28	57	224	457	282	457	109	301*	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

MIDDLE FRASER

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
BROOKMERE	1C01	980	28	0	0T	108	66	419	0	102	56
GRANITE MOUNTAIN	1C33	1150	Not Available			136	14	136	0	27	10
LAC LE JEUNE (LOWER)	1C07	1370	28	0	0	27	10	163	0	18	45
BRIDGE GLACIER (LOWER)	1C39	1400	30	143	588	592	352	1018	352	644*	7
DEADMAN RIVER	1C32	1430	29	0	0	106	52	121	0	35	19
BRALORNE	1C14	1450	30	0	0	95	0	255	0	76	39
SHOVELNOSE MOUNTAIN	1C29	1450	30	9	32	170A	30	302	0	70	23
BOSS MOUNTAIN MINE	1C20P	1460	01	-	386	686	435	829	435	595	9
BRENDA MINE	2F18	1460	29	35	132	263	181	526	0	236	34

LAC LE JEUNE (UPPER)	1C25	1460	28	5	15	92	28	136	0	33	30
BRENDA MINE	2F18P	1460	01	-	117	159	98	279	0	171	10
HIGHLAND VALLEY	1C09A	1510	30	0	0	50	0	142	0	29	37
BARKERVILLE	1A03P	1520	01	-	165	405	236	604	169	350	26
HORSEFLY MOUNTAIN	1C13A	1550	29	78	208	564	372	676	136	422	32
GNAWED MOUNTAIN	1C19	1580	30	0	0T	120	50	241	0T	78	35
MOUNT TIMOTHY	1C17	1660	27	60	201	319	237	536	118	290	40
YANKS PEAK EAST	1C41P	1670	01	-	536	994	645	1039	645	849	6
PENFOLD CREEK	1C23	1680	26	206	876	1231	710	1420	710	1081	30
GREEN MOUNTAIN	1C12P	1780	01	-	1042	1134	661	1341	661	950	9
MCGILLIVRAY PASS	1C05	1800	30	154	647	675	458	1118	302	603	50
MISSION RIDGE	1C18P	1850	01	-	521	664	375	963	313	541	16
DOWNTON LAKE (UPPER)	1C38	1890	30	202	836	918	604	1340	604	911	7
TYAUGHTON CREEK (NORTH)	1C40	1950	30	147	638	500	290A	806	290A	390	7
BRALORNE (UPPER)	1C37	1980	30	167	750	742	518	1002	518	718	7

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

MIDDLE and LOWER FRASER

May 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
GRANITE MOUNTAIN	1C33	1150	Not Available		136	14	136	0	27	10	
BRIDGE GLACIER (LOWER)	1C39	1400	30	143	588	592	352	1018	352	644*	7
SHOVELNOSE MOUNTAIN	1C29	1450	30	9	32	170A	30	302	0	70	23
BOSS MOUNTAIN MINE	1C20P	1460	01	-	386	686	435	829	435	595	9
BRENDA MINE	2F18	1460	29	35	132	263	181	526	0	236	34
LAC LE JEUNE (UPPER)	1C25	1460	28	5	15	92	28	136	0	33	30
BRENDA MINE	2F18P	1460	01	-	117	159	98	279	0	171	10
BARKERVILLE	1A03P	1520	01	-	165	405	236	604	169	350	26
HORSEFLY MOUNTAIN	1C13A	1550	29	78	208	564	372	676	136	422	32
MOUNT TIMOTHY	1C17	1660	27	60	201	319	237	536	118	290	40
YANKS PEAK EAST	1C41P	1670	01	-	536	994	645	1039	645	849	6

PENFOLD CREEK	1C23	1680	26	206	876	1231	710	1420	710	1081	30
GREEN MOUNTAIN	1C12P	1780	01	-	1042	1134	661	1341	661	950	9
MCGILLIVRAY PASS	1C05	1800	30	154	647	675	458	1118	302	603	50
MISSION RIDGE	1C18P	1850	01	-	521	664	375	963	313	541	16
DOWNTON LAKE (UPPER)	1C38	1890	30	202	836	918	604	1340	604	911	7
TYAUGHTON CREEK (NORTH)	1C40	1950	30	147	638	500	290A	806	290A	390	7
BRALORNE (UPPER)	1C37	1980	30	167	750	742	518	1002	518	718	7

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 FRASER

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
CALLAGHAN CREEK	3A20	1040	30	72	312	744	496	1568	256	805	25
DISAPPOINTMENT LAKE	1D18P	1040	28	-	987P	2000P	1298P	2000P	1298P	1739*	3
DICKSON LAKE	1D16	1070	28	221	1084	2122	1242	3180A	604	1550	12
DOG MOUNTAIN	3A10	1080	28	122	547	1576	909	2760A	122	1238	19
BEAVER PASS	WA12	1120	28	107	437	848	226	1600	135	763*	54
SPUZZUM CREEK	1D19P	1180	01	-	1151	2070	1118	2936P	1118	1990*	4
STAVE LAKE	1D08	1210	28	252	1144	1745	999	3120A	796	1653	36
WAHLEACH LAKE	1D09	1400	28	130	514	846	566	1417	177	699	36
WAHLEACH LAKE	1D09P	1400	01	-	954	1426	975	1585	509	1140	11

NAHATLATCH RIVER	1D10	1520	28	296	1385	1655	897	2720A	897	1487	35
EASY PASS	WA13	1580	Not Available			-	-	3414	1072	2210*	29
CHILLIWACK RIVER	1D17P	1600	01	-	1331	2111	1178	2405P	925	1496*	10
GREAT BEAR	1D15P	1660	01	-	1410	2261	1091	2487	1091	1898	11
TENQUILLE LAKE	1D06	1680	30	284	1281	1352	885	1814	676	1222	46
TENQUILLE LAKE	1D06P	1680	01	-	1193	1256	780	1256	780	1018*	2
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											

SKAGIT

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
FREEZEOUT CREEK TRAIL	WA11	1070	29	14	48	246	23	658	0	181*	51
BEAVER PASS	WA12	1120	28	107	437	848	226	1600	135	763*	54
LIGHTNING LAKE	3D02	1220	29	42	148	251	123	599	24	260	31
HARTS PASS	WA09	1980	29	239	1039	1582	632	1847	531	1162*	59
HARTS PASS	WA09P	1980	01	-	922	1366	592	1669	592	1067	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											

Banner

THOMPSON

May 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
BLUE RIVER	1E01B	670	01	0	0	40	0	265	0	36	20
COOK CREEK	1E14P	1280	01	-	203	461	311	465	311	412*	3
COOK FORKS	1E06	1390	28	155	628	1044	596	1438	579	859	39
BOSS MOUNTAIN MINE	1C20P	1460	01	-	386	686	435	829	435	595	9
MOUNT COOK	1E02P	1550	01	-	1219	1665	924	1665	924	1295*	2
MOUNT COOK	1E02A	1580	28	256	1104	1460	905	1758	905	1331	29
AZURE RIVER	1E08P	1620	01	-	990	1478	773	1620	773	1280	6
ADAMS RIVER	1E07	1720	26	151	594	926	578	1173	396	762	32
KOSTAL LAKE	1E10P	1770	01	-	705	1034	683	1256	683	921	18
TROPHY MOUNTAIN	1E03A	1860	26	127	414	778	486	960	417	619	27

NORTH CLEMINA CREEK	1E13	1860	25	193	763	1045	646	1115	579	870	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

SOUTH THOMPSON

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
ANGLEMONT	1F02	1190	28	0	0	233	144	496	0	213	45
MONASHEE PASS	2E01	1370	29	79	286	252	185	505	67	291	45
BOULEAU LAKE	2F21	1400	25	38	138	256	162	488	95	309	31
ADAMS RIVER	1E07	1720	26	151	594	926	578	1173	396	762	32
KIRBYVILLE LAKE	2A25	1750	30	223	1090	1526	865	1797	770	1269	31
SILVER STAR MOUNTAIN	2F10	1840	28	170	665	917	525	1135	371	765	44
PARK MOUNTAIN	1F03P	1890	01	-	850	1047	665	1343	653	976	18
ENDERBY	1F04	1900	27	275	1010	1306	730	1430	700	1106	40

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

May 1, 2003

UPPER COLUMBIA

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
DOWNIE SLIDE (LOWER)	2A27	980	30	62	264	620	292	910	0	525	25
GLACIER	2A02	1250	28	126	563	718	538	1247	320	703	57
SUNWAPTA FALLS	AL11	1400	30	21	74	183	71	389	0	149*	32
VERMONT CREEK	2A19	1520	01	64	230	407	150	1026	140	388	37
AZURE RIVER	1E08P	1620	01	-	990	1478	773	1620	773	1280	6
DOWNIE SLIDE (UPPER)	2A29	1630	30	277	1272	1758	802	2242	802	1424	24
KIRBYVILLE LAKE	2A25	1750	30	223	1090	1526	865	1797	770	1269	31
MOUNT REVELSTOKE	2A06P	1830	01	-	1139	1520	924	1625	874	1304	10
NORTH CLEMINA CREEK	1E13	1860	25	193	763	1045	646	1115	579	870	14

FIDELITY MOUNTAIN	2A17	1870	28	259	1162	1554	869	1986	817	1341	40
BEAVERFOOT	2A11	1890	02	28	98	208	58	495	58	207	42
KEYSTONE CREEK	2A18	1890	30	176	707	937	514	1421	514	863	37
BUSH RIVER	2A23	1920	30	217	910	1011	492	1392	492	892	35
NIGEL CREEK	AL10	1920	30	100	351	521	231	752	207	429*	33
GOLDSTREAM	2A16	1920	30	264	1121	1457	861	1781	850	1229	40
MOLSON CREEK	2A21P	1980	01	-	1001	1358	746	1375E	746	1080	20
MOUNT ABBOT	2A14	1980	30	275	1318	1618	-	1811	853	1361	42
SUNBEAM LAKE	2A22	2010	30	224	916	1108	611	1562	611	976	36
BOW SUMMIT II	AL07A	2080	28	101	325	470	213	597	201	383*	23

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

					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
FERGUSON	2D02	880	28	66	307	405	270	773	160	444	57
FARRON	2B02A	1220	02	20	86	145	136	406	23	226	30
MONASHEE PASS	2E01	1370	29	79	286	252	185	505	67	291	45
WHATSHAN (UPPER)	2B05	1480	29	130	550	492	375	983	255	594	42

BARNES CREEK	2B06	1620	29	146	532	455	357	742	211	500	42
BARNES CREEK	2B06P	1620	01	-	634	536	360	818	360	554	10
ST. LEON CREEK	2B08P	1800	01	-	1001	1463	701	1501	701	1181	9
ST. LEON CREEK	2B08	1800	29	265	1151	1537	816	1974	816	1340	36
KOCH CREEK	2B07	1860	29	196	807	785	519	1201	391	815	42
RECORD MOUNTAIN	2B09	1890	25	188	740	857	435	1278	157	783	28
EAST CREEK	2D08P	2030	01	-	739	975	480	1346	480	967	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

May 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FERNIE EAST	2C07	1250	30	14	61	289	112	541	0	191	51
SINCLAIR PASS	2C01	1370	29	0	0	52	0	246	0	57	57
MARBLE CANYON	2C05	1520	29	58	205	359	125	612	102	302	56
BRUSH CREEK TIMBER	MT03	1520	29	0	0	96	81	417	0	143	52
SULLIVAN MINE	2C04	1550	29	56	176	258	144	518	0	232	57
WEASEL DIVIDE	MT02	1660	28	170	655	970	416	1422	348	838*	63
KIMBERLEY (MIDDLE)V O R	2C12	1680	28	43	136	237	132	483	0	204	34
BANFIELD MOUNTAIN	MT05P	1710	01	-	333	478	277	884	213	465	6

MOUNT JOFFRE	2C16	1750	01	70	249	540	184	772	180	389	34
MORRISSEY RIDGE	2C09Q	1800	01	-	750	1054	454	1345	317	700	17
RED MOUNTAIN	MT04	1830	01	96	376	516	279	841	0	442*	65
MOYIE MOUNTAIN	2C10P	1930	01	-	383	480	286	674	18	351	23
HAWKINS LAKE	MT06P	1970	01	-	607	798	409	1041	409	772	6
ALLISON PASS	AL01	1980	05	128	441	577	339	838	287	476*	16
WILKINSON SUMMIT (BUSH)	AL03	1980	29	55	124	262	174	279	23	188*	14
THUNDER CREEK	2C17	2010	Not Measured			349	185	556	163	302	34
FLOE LAKE	2C14	2090	02	184	720	934	497	1369	497	856	34
FLOE LAKE	2C14P	2090	01	-	780	886	491	1035	481	788	8
KIMBERLEY (UPPER) V O R	2C11	2140	28	126	430	518	260	935	188	498	34
HIGHWOOD SUMMIT (BUSH)	AL02	2210	29	125	378	640	330	726	221	463*	38
SUNSHINE VILLAGE	AL05	2230	28	160	531	767	345	1092	338	639*	36
MOUNT ASSINIBOINE	2C15	2230	01	144	494	675	339	930	339	607	34

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

					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
FERGUSON	2D02	880	28	66	307	405	270	773	160	444	57
NELSON	2D04	930	30	0	0	154	152	508	0	177	47
SANDON	2D03	1070	01	0	0	112	0T	399	0	83	54
CHAR CREEK	2D06	1310	01	102	430	431	259	838	79	480	36
BUNCHGRASS MEADOW	WA01P	1520	01	-	764	770	483	1224	483	683	6
GRAY CREEK (LOWER)	2D05	1550	30	105	410	-	387	726	229	456	53
KOCH CREEK	2B07	1860	29	196	807	785	519	1201	391	815	42
MOUNT TEMPLEMAN	2D09	1860	01	246	1094	1170	731	1679	731	1144	35
GRAY CREEK (UPPER)	2D10	1910	30	196	786	-	596	1300	518	821	33
EAST CREEK	2D08P	2030	01	-	739	975	480	1346	480	967	21
REDFISH CREEK	2D14P	2104	01	-	1369	1706	-	1706	1706	1706*	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

KETTLE, OKANAGAN and SIMILKAMEEN

May 1, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FARRON	2B02A	1220	02	20	86	145	136	406	23	226	30
CARMI	2E02	1250	30	0	0	4	0	173	0	29	39
MONASHEE PASS	2E01	1370	29	79	286	252	185	505	67	291	45
BIG WHITE MOUNTAIN	2E03	1680	30	110	452	540	346	762	237	494	37
GRANO CREEK	2E07P	1860	01	-	529	683	420	806	420	611*	5
BLUEJOINT MOUNTAIN	2E06	2040	29	188	764	768	379	1201	287	775	27

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SUMMERLAND RESERVOIR	2F02	1280	30	0	0	87	12	368	0	129	38
McCULLOCH	2F03	1280	30	0	0	0	0T	188	0	30	57
ABERDEEN LAKE	1F01A	1310	28	0	0	19	31	144	0	27	49
OYAMA LAKE	2F19	1340	30	2	5	68	94	185	0	66	33
POSTILL LAKE	2F07	1370	30	32	107	156	167	282	0	135	51
VASEUX CREEK	2F20	1400	01	0	0	0	20	192	0	59	32
BOULEAU LAKE	2F21	1400	25	38	138	256	162	488	95	309	31
TROUT CREEK	2F01	1430	28	0	0	134	0	386	0	93	55
BRENDA MINE	2F18	1460	29	35	132	263	181	526	0	236	34
BRENDA MINE	2F18P	1460	01	-	117	159	98	279	0	171	10
ISLAHT LAKE	2F24	1480	28	39	125	302	168	433	66	282	21
GREYBACK RESERVOIR	2F08	1550	01	33	104	146	187	386	0	181	31
ESPERON CR (UPPER)	2F13	1650	27	83	274	496	234	805	119	391	33
ISINTOK LAKE	2F11	1680	30	19	59	125	94	437	0	137	38
MACDONALD LAKE	2F23	1740	29	92	337	555	332	650	198	459	26
MISSION CREEK	2F05P	1780	01	-	510	630	424	784	140	490	31
GRAYSTOKE LAKE	2F04	1810	30	100	292	418B	240	940	120	412	32
MOUNT KOBAU	2F12	1810	27	94	342	311	236	597	53	324	37
WHITEROCKS MOUNTAIN	2F09	1830	01	87	331	666	320	1013	175	534	32
SILVER STAR MOUNTAIN	2F10	1840	28	170	665	917	525	1135	371	765	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

					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
BROOKMERE	1C01	980	30	0	0T	108	66	419	0	102	56
FREEZEOUT CREEK TRAIL	WA11	1070	29	14	48	246	23	658	0	181*	51
LIGHTNING LAKE	3D02	1220	29	42	148	251	123	599	24	260	31
HAMILTON HILL	2G06	1490	29	46	168	351	135	838	0	268	43
MISSEZULA MOUNTAIN	2G05	1550	29	12	39	202	50	323	0	154	38
ISINTOK LAKE	2F11	1680	30	19	59	125	94	437	0	137	38
LOST HORSE MOUNTAIN	2G04	1920	27	60	194	300	197	554	64	245	42
BLACKWALL PEAK	2G03P	1940	01	-	683	1136	439	1566	375	832	35
HARTS PASS	WA09	1980	29	239	1039	1582	632	1847	531	1162*	59
HARTS PASS	WA09P	1980	01	-	922	1366	592	1669	592	1067	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											

Banner

COASTAL

May 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09	880	28	134	671	1657	941	3600A	0	1479	49
PALISADE LAKE	3A09P	880	Not Available			-	1080	1268	1080	1174*	2
POWELL RIVER (LOWER)	3A05	910	28	44	181	-	-	585B	183	305*	3
CHAPMAN CREEK	3A26	1022	Not Measured			1658Z	1018	1710	756	1594	8
CALLAGHAN CREEK	3A20	1040	30	72	312	744	496	1568	256	805	25
POWELL RIVER (UPPER)	3A02	1040	28	157	673	-	-	1712	533	881*	5
DOG MOUNTAIN	3A10	1080	28	122	547	1576	909	2760A	122	1238	19
GROUSE MOUNTAIN	3A01	1100	30	138	640	1746	1048	2870A	120	1212	53

ORCHID LAKE	3A19	1190	28	313	1422	1867	1348	3845A	900	2030	30
ORCHID LAKE	3A19P	1190	01	-	1536	-	1356	3862	1058	2074*	16
UPPER SQUAMISH RIVER	3A25P	1340	01	-	1530	1583	1088	2760P	1088	1635	13
NOSTETUKO RIVER	3A22P	1500	01	-	499	656	-	917	207	555*	11
UPPER MOSELY CREEK	3A24P	1650	01	-	176	259	198	494	143	253*	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

					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
WOLF RIVER (LOWER)	3B19	640	28	0	0	184	0T	1118	0	192	33
TENNENT LAKE	3B22	950	Not Available			-	690	1238Z	0	909	15
UPPER THELWOOD LAKE	3B10	980	28	270	1286	1484	1248	3560A	644	1594	42
MARGARET LAKE	3B21	1040	25	381	1810	1652	-	3840Z	632	1982	26

WOLF RIVER (MIDDLE)	3B18	1070	28	141	528	584	406	1652	0	584	32
FORBIDDEN PLATEAU	3B01	1130	28	310	1463	1490	1237	3500A	448	1628	46
JUMP CREEK	3B23P	1160	01	-	668	1564	833	1564	360	1159	6
MOUNT COKELY	3B02A	1190	05	164	768	1048	708	2062	274	850	22
SPROAT LAKE	3B20	1220	25	328	1440A	1514	1186	3810Z	613	1681	27
WOLF RIVER (UPPER)	3B17P	1490	01	-	1722	1234	1042	1888	701	1445	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

					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
WEDEENE RIVER SOUTH	3C07	300	02	0	0	315	74	599	0	111	18
TAHTSA LAKE	1B02	1300	28	230	1002	1628	1110	1770	701	1258	51
TAHTSA LAKE	1B02P	1300	01	-	1018	1798	1231	1798	866	1320	10
BURNT BRIDGE CREEK	3C08P	1330	01	-	536	1095	600	1095	585	770*	5

A - SAMPLING PROBLEMS WERE ENCOUNTERED
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E - ESTIMATED BASED ON AREAL AVERAGE
* - PERIOD OF RECORD AVERAGE

Banner

NORTH EAST

May 1, 2003

PEACE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	26	72	324	745	361	950	93	530	38
BULLHEAD MOUNTAIN	4A28	790	30	0	0	113	0	113	0	3	17
WARE (LOWER)	4A04	980	28	36	108	206	111	229	0	125	37
PHILIP LAKE	4A13	980	27	58	226	320	127	406	0	201	39
AIKEN LAKE	4A30P	1040	01	-	158	284	150	284	71	157	16
TUTIZZI LAKE	4A06	1070	27	47	166	237	96	325	0	155	39
TSAYDAYCHI LAKE	4A12	1160	27	96	348	523	325	625	168	380	40
PINK MOUNTAIN	4A14	1170	04	16	28	91	3	151	0	36	39
KAZA LAKE	1A12	1190	27	88	283	405	308	470	201	330	37
FREDRICKSON LAKE	4A10	1310	27	63	197	269	241	358A	128	232	39
PULPIT LAKE	4A09	1310	28	102	362	460	452	560	287	399	38
PULPIT LAKE	4A09P	1310	01	-	344	427	469	500	308	394	12
TRYGVE LAKE	4A11	1400	27	101	330	430	328	495	272	371	39

SIKANNI LAKE	4C01	1400	28	70	235	319	201	360	115	252	39
PINE PASS	4A02P	1400	01	-	936	1378	975	1537	975	1165	11
PINE PASS	4A02	1430	26	260	996	1640	1157	1732	681	1224	42
MORFEE MOUNTAIN	4A16	1450	26	194	819	1059	689	1181A	410	810	32
LADY LAURIER LAKE	4A07	1460	28	124	441	706	429	747	305	528	40
MOUNT SHEBA	4A18	1490	26	180	674	1191	609	1251	503	876	34
GERMANSEN (UPPER)	4A05	1500	27	99	337	467	315	597	181	355	41
MOUNT STEARNS	4A21	1500	28	49	130	200	77	271	0	143	29
JOHANSON LAKE	4B02	1540	27	82	266	348	275	418	143	295	40
MONKMAN CREEK	4A20	1550	26	114	378	790	456	1016	329	614	25
BULLMOOSE CREEK	4A31	1570	30	118	330	696	440	696	294	480	15
WARE (UPPER)	4A03	1570	28	81	257	336	210	402	141	273	39
KWADACHA RIVER	4A27P	1620	01	-	289	371	289	476	259	375*	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

* - 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

WATSON LAKE A	YK01	700	29	21	60	116	51	145	0	35*	32
FRANCES RIVER	YK02	730	29	31	91	147	111	237	0	74*	26
DEASE LAKE	4C03	820	30	0	0T	61A	0T	178	0	40	36
JADE CITY	4C15	940	28	49	144	116A	-	116A	116A	116*	1
SUMMIT LAKE	4C02	1280	30	0	0	128		200A	0	38	36
DEADWOOD RIVER	4C09P	1300	01	-	105	113	122	207	27	114*	9
SIKANNI LAKE	4C01	1400	28	70	235	319	201	360	115	252	39

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

May 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SPEEL RIVER	AK03	80	29	66	259	792	320	1240	51	659*	37
TELEGRAPH CREEK	4D01	580	28	0	0	0	0	163	0	28	27
NINGUNSAW PASS	4B10	690	05	39	165	317Z	262	547	0	246	27
DEASE LAKE	4C03	820	30	0	0T	61A	0T	178	0	40	36
KINASKAN LAKE	4D11P	1020	01	-	356	338	311	487	216	321*	12
TUMEKA CREEK	4D10P	1220	01	-	458	495	543	838	411	586*	13
WADE LAKE	4D14P	1370	01	-	285	304	374	546	187	353*	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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
ATLIN LAKE	4E02A	730	30	0	0	0	0	97	0	15	17
LOG CABIN	4E01	880	01	33	127	417	386	531	173	352	45
PINE LK AIRSTRIP	YK03	1010	29	37	120	203	150	327	89	187*	27
MONTANA MTN.	YK05	1020	30	17	40	160A	89	191	0	110*	27
TAGISH	YK04	1080	29	20	62	150A	87	205	0	106*	27

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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
BEAR PASS	4B11A	460	Not Available			-	370	859	256	575	17
NINGUNSAW PASS	4B10	690	05	39	165	317Z	262	547	0	246	27
GRANDUC MINE	4B12P	790	01	-	1661	1774	-	1774	1774	1774*	1
CEDAR-KITEEN	4B18P	885	01	-	259	761	585	761	585	673*	2

MCKENDRICK CREEK	4B07	1050	28	58	199	380	168	422	80	236	35
TACHEK CREEK	4B06	1140	27	51	140	313	136	318	69	172	33
KAZA LAKE	1A12	1190	27	88	283	405	308	470	201	330	37
LU LAKE	4B15	1300	30	46	144	426	198	444	155A	264*	23
LU LAKE	4B15P	1310	01	-	94	443	-	443	124	246*	4
TSAI CREEK	4B17P	1360	01	-	1024	1853	1076	1853	1046	1295*	5
KIDPRICE LAKE	4B01	1370	28	185	704	1265	873	1367	551	935	51
TRYGVE LAKE	4A11	1400	27	101	330	430	328	495	272	371	39
EQUITY MINE	4B14	1420	30	78	242	560	284	620	212	383	25
CHAPMAN LAKE	4B04	1460	28	117	423	708	367	749	308	485	37
HUDSON BAY MTN.	4B03A	1480	28	119	433	735	401	787	362	532	31
MOUNT CRONIN	4B08	1480	28	155	568	867	510	1125	422	653	34
SHEDIN CREEK	4B16P	1480	01	-	728	1095	1005	1140	791	994*	7
JOHANSON LAKE	4B02	1540	27	82	266	348	275	418	143	295	40

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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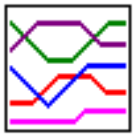
Banner

Snowpack and Water Supply Outlook for British Columbia

May 15, 2003

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



B.C Summary Graphs of Snow Water Equivalents

The May 15 snow survey is of a relatively small number of stations compared with the surveys done in the previous measurements. Data from 37 snow courses and 58 snow pillows around the province have been used to form the basis for the following reports.

Snowpack

Mountain snowpacks have melted less than usual over the last two weeks due to the cool weather. There has been some continued accumulation of snow at higher elevations, especially in the Upper Fraser, Thompson, Columbia, and Kootenay basins. While most of the province continues to have less snow than usual for this date, the Columbia and Kootenay now have near normal snowpacks for May 15. From very little data, the Liard still has above normal snowpacks.

Weather

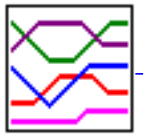
The first two weeks of May have been cooler than usual, and while some snow melt has occurred, it has been much less than normal for the last two weeks. Some higher elevation stations, have seen continued accumulation of snow, where normally we would see significant melt over this period. Precipitation has been less than normal over the first two weeks of May.

Outlook

Freshet volumes in the Liard may be above normal, and in the Columbia &

Kootenay regions near normal. However they will likely be below to well below normal in most of the rest of the province. Unless the late spring and early summer is wetter than usual, the plateau areas of the central interior will have much less runoff than usual. If the late spring and summer are dry, the lower mainland and the south half of the west side of Okanagan Lake may experience water shortages.

Upper Fraser & Nechako Basins


Data Graphs


Snow Survey Data Measurements

May 15

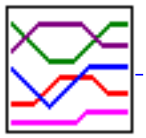
Weather in the first half of May has been cooler than usual, with approximately normal precipitation. Temperatures have been low enough that we have seen some continued snow accumulation at higher elevations. Snowpacks, however, are still well less than normal for May 15.

Streamflows are low due to the cool weather, however any extended heat will bring them up rapidly. With the less than normal snowpacks, it would take extremely unusual weather over the next month to create serious flooding on larger rivers. Depending on whether the summer is wet or dry, water supply in smaller, low lying basins on the plateau could become a problem.

Note that the precipitation index station for the Nechako in the data graphs has been changed to Wistaria, on the north shore of Ootsa Lake, as Fort St James data has usually not been available at publishing time. Therefore this accumulated winter precipitation index is now more representative of the reservoir portion of the Nechako than the Stuart River.

· Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

May 15

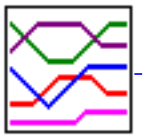
Despite the slower than usual melt due to cool weather, snowpacks in the middle

Fraser remain well below normal for this date, with the exception of the Bridge River basin, with above normal mountain snowpacks for May 15. Smaller, low elevations basins on the majority of the plateau country may be short of water this summer, unless the summer is wetter than normal.

Streamflows are low at this time due to the last week of cool weather, however any extended period of hot weather in the next few weeks will bring them up rapidly. Damaging flooding along the mainstem Fraser appears unlikely this freshet due to the generally well less then normal snowpacks. Smaller systems which may have heavier runoff are the Lillooet and Bridge Rivers.

· Top

Thompson Basin


Data Graphs


Snow Survey Data Measurements

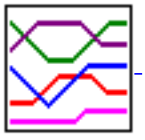
May 15

Due to the generally cooler than usual weather over the last two weeks, snowmelt has been slow, with a few upper elevation stations in the North Thompson, and most in the South Thompson, showing continued snow accumulation. While snowpacks for the North Thompson are still less than usual, the South Thompson mountain snowpacks are near normal for May 15.

Streamflow are low at this time due to the cool weather of the last week, however any extended warm weather will bring them up rapidly. However, it would take extremely unusual weather in the next month or so to create damaging flooding along the North Thompson this freshet.

· Top

Columbia Basin


Data Graphs


Snow Survey Data Measurements

May 15

Snowpacks at upper elevations in the Columbia have mostly continued to accumulate snow over the last two weeks, with slow melt at mid-elevations, due to cooler than usual weather. Mountain snowpacks are near normal for May 15.

Streamflows are quite low due to this cool weather, and the slightly lower than normal precipitation. Any extended hot weather over the next 6 weeks or so will bring streams up rapidly.

Top

Kootenay Basin


Data Graphs


Snow Survey Data Measurements

May 15

Snowpacks in the Kootenays are near to slightly above normal for May 15. Cooler weather than usual has slowed mid-elevation melt, and some upper elevation stations have showed slight continued accumulation over the last two weeks.

Streamflows are low for this date due to the cool weather, however any extended hot weather will bring water levels up rapidly.

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

May 15

Due to overall cooler than normal weather over the last two weeks, mid-elevation snowmelt has been slower than usual, and a few upper elevation stations have shown some snow accumulation. Mountain snowpacks in the Kettle, and northeast

Okanagan, appear to be near normal for May 15, with those in the southwest Okanagan much less than usual. From sparse data, the Similkameen, due to delayed melt and some late accumulations, has a much closer to normal mountain snowpack than earlier, though still less than usual.

Streamflows are low for this date due to the cool weather and slow snow melt, however any extended hot weather will bring them up rapidly.

Top

Vancouver Island & Coastal Regions


Data Graphs


Snow Survey Data Measurements

May 15

From very limitted data, the melt of mountain snowpacks on central Vancouver Island also appear to have been delayed due to cool weather, and are now above normal. On southern Vancouver Island they are still well below normal for May 15. While the very southern coast between Squamish and Vancouver has much less than normal snow for this date, mountainous areas north of Whistler (adjacent to the Lillooet and Bridge basins) now have above normal snowpacks for May 15. Very sparse data indicates the Central Coast has below normal snowpacks for this date.

Streamflows are low for this time of spring freshet throughout the region, but will rise rapidly with any extended hot weather.

Top

North East Region


Data Graphs


Snow Survey Data Measurements

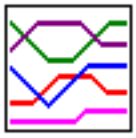
May 15

From relatively few measurements on this smaller survey, melt appears to have been slower than usual over the last two weeks, with some continued snow accumulation at higher elevations. The Peace basin apears to still have a lower than usual snowpack for May 15, and the Liard continues to have more snow than normal.

Streamflows in the region are slightly lower than usual for this date due to the recent cooler weather. Any sustained heat will bring flows up rapidly.

Top

NorthWest Region



Data Graphs

Snow Survey Data Measurements

May 15

From the small survey done, melt appears to have been proceeding at a near normal rate in the northwest of BC. Snowpacks appear to be still less than normal in the Skeena and Nass mountains, and slightly less than normal in the Stikine. Streamflows in the region are slightly lower than usual for this time of freshet due to the recent cool weather, however they will rise rapidly given any sustained heat over the next few weeks.

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UPPER and MIDDLE FRASER

May 15, 2003

UPPER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	09	48	214	694	249	728	0	341	28
HEDRICK LAKE	1A14P	1100	15	-	435	998	623	998	623	813*	3
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
KNUDSEN LAKE	1A15	1580	09	154	660	1075	705	1205	359	832	28
MC BRIDE (UPPER)	1A02	1580	09	79	297	448	255	752	24	367	35
NARROW LAKE	1A21	1650	10	158	690	-	797	1375	489	950	27
REVOLUTION CREEK	1A17P	1690	15	-	443	1074	495	1161	228	713	17
LONGWORTH (UPPER)	1A05	1740	09	139	616	1172	768	1219	292	772	49
DOME MOUNTAIN	1A19	1820	09	136	604	999	682	1168	385	813	30
YELLOWHEAD	1A01P	1860	15	-	611	731	383	825	139	579	6
HOLMES RIVER	1A18	1900	09	174	688	928	571	1125	359	777	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

NECHAKO

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
TAHTSA LAKE	1B02P	1300	15	-	972	1765	1286	1765	732	1255	10
MOUNT PONDOSY	1B08P	1400	15	-	561	1198	680	1198	314	645	10
MOUNT WELLS	1B01P	1490	15	-	344	759	497	759	277	510	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											

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25

MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

Banner

MIDDLE and LOWER FRASER

May 15, 2003

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

LOWER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
DISAPPOINTMENT LAKE	1D18P	1040	15	-	730P	1930P	-	1930P	1652	1791*	2
DOG MOUNTAIN	3A10	1080	15	94	431	1565	-	2920Z	0	1100	17
SPUZZUM CREEK	1D19P	1180	15	-	1032	2085	1069	2085	1069	1663*	3
WAHLEACH LAKE	1D09P	1400	15	-	911	1436	942	1624	335	960	11
CHILLIWACK RIVER	1D17P	1600	15	-	1335	2186	1166	2186	764	1249*	8
GREAT BEAR	1D15P	1660	15	-	1425	2411	1114	2436	1114	1823	11
TENQUILLE LAKE	1D06	1680	15	267	1248	1328	875	1875	625	1162	46
TENQUILLE LAKE	1D06P	1680	15	-	1144	1211	765	1211	765	988*	2

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

SKAGIT

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
HARTS PASS	WA09P	1980	Not Available		1285	467	1748	467	952	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

Banner

THOMPSON

May 15, 2003

NORTH THOMPSON

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
COOK CREEK	1E14P	1280	15	No Snow		308	143	345	143	265*	3
COOK FORKS	1E06	1390	17	110	489	924	498	1359	274	688	39
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
MOUNT COOK	1E02P	1550	15	-	1196	1793	953	1793	953	1373*	2
MOUNT COOK	1E02A	1580	17	237	1077	1544	992	1856	873	1270	27
AZURE RIVER	1E08P	1620	15	-	923	1406	806	1665	806	1230	6
ADAMS RIVER	1E07	1720	13	146	678	972	638	1158	280	712	31
KOSTAL LAKE	1E10P	1770	15	-	691	1058	709	1357	588	887	18
NORTH CLEMINA CREEK	1E13	1860	09	194	813	1060	683	1177	536	856	12

TROPHY MOUNTAIN	1E03A	1860	11	125	499	796	722	1114	301	608	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

SOUTH THOMPSON

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
ADAMS RIVER	1E07	1720	13	146	678	972	638	1158	280	712	31
SILVER STAR MOUNTAIN	2F10	1840	12	161	685	895	515	1054	100	661	44
PARK MOUNTAIN	1F03P	1890	15	-	864	1090	699	1321	474	927	18
ENDERBY	1F04	1900	14	250	1060	1366	768	1499	662	1089	40

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

	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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

Banner

COLUMBIA

May 15, 2003

UPPER COLUMBIA

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
AZURE RIVER	1E08P	1620	15	-	923	1406	806	1665	806	1230	6
MOUNT REVELSTOKE	2A06P	1830	15	-	1133	1567	969	1777	700	1297	10
NORTH CLEMINA CREEK	1E13	1860	09	194	813	1060	683	1177	536	856	12
MOLSON CREEK	2A21P	1980	15	-	1061	1335	795	1375E	602	1040	20

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

					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
FARRON	2B02A	1220	16	4	14	32	27	222	0	110	23
BARNES CREEK	2B06P	1620	15	-	675	555	289	761	94	438	10
ST. LEON CREEK	2B08P	1800	15	-	1031	1481	653	1568	639	1080	9
RECORD MOUNTAIN	2B09	1890	11	168	727	818	397	1367	83	676	28
EAST CREEK	2D08P	2030	15	-	806	956	480	1387	461	925	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

May 15, 2003

EAST KOOTENAY

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FERNIE EAST	2C07	1250	18	4	8	156	0	290	0	46	41
SULLIVAN MINE	2C04	1550	15	No Snow		213	0	457	0	105	51
BANFIELD MOUNTAIN	MT05P	1710	15	-	236	373	112	569	0	305	5
MORRISSEY RIDGE	2C09Q	1800	15	-	731	1091	217	1091	0	460	19
MOYIE MOUNTAIN	2C10P	1930	15	-	308	431	100	552	0	255	22
HAWKINS LAKE	MT06P	1970	15	-	523	737	302	1067	178	706	6
FLOE LAKE	2C14P	2090	15	-	874	897	495	1088	304	765	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

WEST KOOTENAY

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
CHAR CREEK	2D06	1310	15	73	316	358	120A	715	0	279	33
BUNCHGRASS MEADOW	WA01P	1520	15	-	665	678	310	1163	307	582	6
GRAY CREEK (LOWER)	2D05	1550	14	95	403	-	-	709	0	351	48
GRAY CREEK (UPPER)	2D10	1910	14	196	839	-	-	1194	311	765	29
EAST CREEK	2D08P	2030	15	-	806	956	480	1387	461	925	21
REDFISH CREEK	2D14P	2104	15	-	1387	1748	-	1748	1748	1748*	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

KETTLE, OKANAGAN and SIMILKAMEEN

May 15, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FARRON	2B02A	1220	16	4	14	32	27	222	0	110	23
BIG WHITE MOUNTAIN	2E03	1680	18	107	426	512	282	732	0	390	37
GRANO CREEK	2E07P	1860	15	-	593	675	353	855	308	563*	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	15	No Snow		0	0	218	0	32	37
VASEUX CREEK	2F20	1400	15	No Snow		0	0	80	0	9	31
TROUT CREEK	2F01	1430	15	No Snow		0	0	307	0	30	50
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
GREYBACK RESERVOIR	2F08	1550	15	6	26	78	56	323	0	100	31
ISINTOK LAKE	2F11	1680	14	1	4	66	0	386	0	78	37
MISSION CREEK	2F05P	1780	15	-	540	638	368	829	0	407	31
MOUNT KOBAU	2F12	1810	14	85	314	306	193	516	0	254	36
WHITEROCKS MOUNTAIN	2F09	1830	15	71	289	618	243	968	0	401	32
SILVER STAR MOUNTAIN	2F10	1840	12	161	685	895	515	1054	100	661	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

					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
MISSEZULA MOUNTAIN	2G05	1550	Not Available			117	0	218	0	54	39
ISINTOK LAKE	2F11	1680	14	1	4	66	0	386	0	78	37
LOST HORSE MOUNTAIN	2G04	1920	16	60	191	254	76	577	4	192	39

BLACKWALL PEAK	2G03P	1940	15	-	671	1110	341	1481	208	706	35
HARTS PASS	WA09P	1980	Not Available			1285	467	1748	467	952	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

Banner

COASTAL

May 15, 2003

SOUTH COASTAL

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09P	880	Not Available			-	-	1045	1045	1045*	1
DOG MOUNTAIN	3A10	1080	15	94	431	1565	-	2920Z	0	1100	17
ORCHID LAKE	3A19	1190	15	256	1230	1927	-	3730A	774	1900	22
ORCHID LAKE	3A19P	1190	15	-	1390	1899	1284	2804	828	1870*	15
UPPER SQUAMISH RIVER	3A25P	1340	15	-	1384	1526	1061	1796	949	1515	12
NOSTETUKO RIVER	3A22P	1500	15	-	420	563	-	860	21	378*	11
UPPER MOSELY CREEK	3A24P	1650	15	-	207	236	94	402	0	142*	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

					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
JUMP CREEK	3B23P	1160	15	-	521	1474	724	1474	251	975	6
WOLF RIVER (UPPER)	3B17P	1490	15	-	1649	1103	1024	1726	507	1300	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

					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
TAHTSA LAKE	1B02P	1300	15	-	972	1765	1286	1765	732	1255	10

BURNT BRIDGE CREEK	3C08P	1330	15	-	484	994	574	994	210	638*	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

May 15, 2003

PEACE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	09	48	214	694	249	728	0	341	28
AIKEN LAKE	4A30P	1040	15	-	60	168	0	188	0	49*	16
PULPIT LAKE	4A09P	1310	15	-	292	369	448	454	49	230	12
PINE PASS	4A02P	1400	15	-	850	1393	1039	1471	813	1073	11
KWADACHA RIVER	4A27P	1620	15	-	311	383	304	468	109	342*	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

	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
DEADWOOD RIVER	4C09P	1300	15	No Snow		19	37	207	0	48*	9

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

May 15, 2003

STIKINE/TAKU

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
KINASKAN LAKE	4D11P	1020	15	-	259	259	238	411	0	177*	12
TUMEKA CREEK	4D10P	1220	15	-	412	458	506	771	195	456*	13
WADE LAKE	4D14P	1370	15	-	244	296	380	427	0	271*	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
LOG CABIN	4E01	880	20	No Snow		355	326	420	4	200	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

* - PERIOD OF RECORD AVERAGE

SKEENA/NASS

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
GRANDUC MINE	4B12P	790	15	-	1455	1545	-	1545	1545	1545*	1
CEDAR-KITEEN	4B18P	885	15	-	120	653	514	653	514	584*	2
LU LAKE	4B15P	1310	15	No Snow		416	-	416	11	167*	4
TSAI CREEK	4B17P	1360	15	-	975	1909	1159	1909	953	1299*	5
HUDSON BAY MTN.	4B03A	1480	15	95	354	701	426	752	160	441	30
SHEDIN CREEK	4B16P	1480	15	-	713	1155	1114	1159	660	978*	7

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

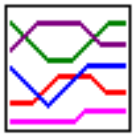
Banner

Snowpack and Water Supply Outlook for British Columbia

June 1, 2003

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



B.C Summary Graphs of Snow Water Equivalents

The June 1 snow survey is quite small as many lower level snow courses are normally free of snow by this date, and those that have snow are depleting rather than accumulating. However, snow surveys have been conducted at 31 snow courses in B.C. and at 7 in adjacent jurisdictions. These, together with data from 59 snow pillows around the province, and Environment Canada climate information, have been used in making the following analyses. Because of the very limited sampling, commentaries are necessarily brief.

A very brief report will be issued about June 18 reporting on mid-month snow levels. For commentary on river conditions during this freshet, please refer to our Current Runoff Conditions page.

Snowpack

Melt rates were slow for the first three weeks of the month, however with the warmer late May, overall melt for the month on mid and upper elevation mountain snowpacks has been near normal. As most of the province had well below normal snowpacks, remaining mountain snowpacks are less than normal. The exceptions, with near normal higher elevation snowpacks for June 1, are the Liard, the Columbia & East Kootenay regions, the Kettle River and northeast Okanagan, an area on the south side of the lower Fraser valley (Chilliwack ASP to Wahleach ASP), and the Lillooet-Bridge area in the southwest. There was very little lower elevation snow in the southern 2/3 of BC this winter, and the snowline there is somewhat higher than is usual for this date. Very little snow is found below 1500

metres, which includes all but higher, shadier spots on the Interior Plateau.

Weather

Most of B.C. experienced cooler than normal temperatures during much of the first three weeks of May, followed by a slightly warmer than usual final 10 days of the month. Overall mean monthly temperatures at our index stations were near normal over May, with the largest variation being Cranbrook in the Kootenays, with a mean monthly temperature during May of 1.2 degrees C below normal. Precipitation was more variable during May, with areas along the west side of the mid-BC Rockies receiving near normal precipitation, and most of the rest of BC receiving below to well below normal precipitation for the month. The Peace and Middle Fraser plateau received less than half of their usual precipitation. Overall cumulative precipitation since November 1 in most of the province is now near normal, with the extremes being Fort Nelson in the Liard with 45% more than normal, and Quesnel in the Middle Fraser, with only 70% of its normal November 1 to June 1 precipitation.

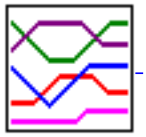
Outlook

In most of the southern 2/3 of the province, with exceptions note in "Snowpack", above, the smaller snowpacks will result in a well below normal runoff. Even in those areas with near normal mountain snowpacks, runoff will probably be lower than usual due to the general lack of lower elevation snow this winter. The Liard may be the only major basin in BC this spring to experience normal runoff volumes, depending on weather patterns over the next month or so. Most rivers in the southern half of the province will probably peak, at below damaging levels, in the next week, unless fairly extensive rain occurs following the current hot weather.

If the late spring and summer in those areas remains dry, the Lower Mainland (lower Fraser Valley) and the south half of the west side of Okanagan Lake may experience water shortages, and the Interior Plateau could get quite dry. With the higher snowline in southern BC this spring, there is an earlier potential fire hazard at mid-elevations.

No further volume forecasts will be made this year. The April 1 and May 1 forecasts can be viewed in the appropriate pages of the archives.

Upper Fraser & Nechako Basins



Data Graphs

Snow Survey Data Measurements

June 1

Weather in the first half of May was cooler than usual, however the warmer temperatures of the last ten days of the month have brought overall melt rates for the month of May to nearly normal in the Upper Fraser and Nechako. Mountain snowpacks in most of the Upper Fraser are well below normal, however there is a small area in the mountains east of McBride which appears to have near normal snow for this date. The Nechako has far less than its normal snowpack, with a snow water index reading of 57% of normal. There is little snow below 1500 metres.

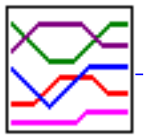
Mean monthly temperatures over May have been near normal. Precipitation in the Upper Fraser was near normal, with the Nechako plateau again receiving less than normal precipitation.

Streamflows, as measured by the mean monthly flow in the Fraser at Marguerite, were well below normal during the month of May, due to less lower elevation snow to melt. With the less than normal snowpacks, it would take extremely unusual weather over the next month to create serious flooding on larger rivers. Unless there is heavy rain in the next few weeks, most rivers should peak from the current heat, (June 5th-8th), at well below damaging levels. Depending on whether the summer is wet or dry, water supply in smaller, low lying basins on the plateau could become a problem.

Note that the precipitation index station for the Nechako in the data graphs has been changed to Wistaria, on the north shore of Ootsa Lake, as Fort St James data has usually not been available at publishing time. Therefore this accumulated winter precipitation index is now more representative of the reservoir portion of the Nechako than the Stuart River.

· Top

Middle and Lower Fraser



Data Graphs

Snow Survey Data Measurements

June 1

Mountain snowpacks in most of the Middle Fraser are well below normal for June 1, with little snow below 1500 metres, a high snowline for this date. This includes most of the Interior plateau. The Bridge and Lillooet basins continue to be exceptions with normal mountain snow for June 1. The Lower Fraser snow index is

at 79% of normal for June 1.

Precipitation in the Middle Fraser was less than half of normal during May, (Quesnel), bringing cumulative precipitation there since November 1 to only 70% of normal. Precipitation was also well below normal in the Lower Fraser over the last month. Temperatures were slightly cooler than usual over May in the Middle Fraser, slightly warmer than normal in the Lower Fraser.

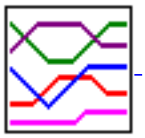
Smaller, low elevations basins on the majority of the plateau country in the Middle Fraser may be short of water this summer, unless the summer is wetter than normal.

Streamflows, as indicated by the mean monthly flow in the Fraser River at Hope, were well below normal during May, due to a lack of lower elevation snow to melt. Damaging flooding along the mainstem Fraser appears very unlikely this freshet due to the generally well less then normal snowpacks. Smaller systems which may have heavier runoff are the Lillooet and Bridge Rivers.

2003 Fraser at Hope Hydrograph

· Top

Thompson Basin



Data Graphs

Snow Survey Data Measurements

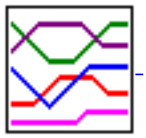
June 1

While snowpacks in the North Thompson are still less than usual, the South Thompson mountain snowpacks are near normal for June 1. Snowlines are higher than usual for this date. The North Thompson snow water index of mid to upper elevation stations is at 85% of normal, with the South Thompson index at 92 % of normal. Precipitation over May and over winter has been slightly above normal in both basins, with temperatures only slightly cooler than usual during May.

Streamflows, as measured by the mean monthly flow in the Thompson River at Spences Bridge, were below normal (81%) during May, due to less lower elevation snow to melt. It would take extremely unusual weather (heavy sustained rain when the river is near peak from snow melt) in the few weeks to create damaging flooding along the North Thompson this freshet.

Top

Columbia Basin



Data Graphs

Snow Survey Data Measurements

June 1

The Columbia snow water index is at 96% of normal for June 1, indicating mountain snowpacks are near normal. Snowmelt in the Upper Columbia has been slightly less than usual over May. Precipitation during May and since November 1 has been slightly less than normal. May mean monthly temperature was near normal, after a cool beginning to the month.

Regional streamflows, as represented by the mean monthly flow in the Columbia River at Donald, were only 75% of normal during May, mainly due to less lower elevation snow than usual to melt.

Top

Kootenay Basin

Data Graphs

Snow Survey Data Measurements

June 1

Despite well below normal precipitation during May, the cumulative precipitation since November 1 in the Kootenays has been near normal. The mean monthly temperature during May was below normal by 1.2 deg C. The snow water equivalent index of mid to upper elevation stations for the entire Kootenays is near normal at 93%, although the snowline appears to be a bit higher than usual for this date.

Regional streamflows, as indicated by the mean monthly flow in the Kootenay River at Fort Steele, were below normal during May (79%), due to cooler

temperatures and less low elevation snow this spring to melt.

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

June 1

While upper Mission Creek and some upper elevations in the northeast Okanagan have near normal snow, the southwest Okanagan appears to still have much less snow than usual for June 1. From limited data, the Kettle appears to have a near normal upper elevation snowpack, however it may be less than normal at mid-elevations for June 1. Upper elevations in the Similkameen also appear to have only slightly less than normal snowpacks. However, snowlines are higher than usual for this date throughout the region.

Precipitation during May has been below normal in the mid-Okanagan (70%) and the Similkameen (63%), and both basins have below normal cumulative precipitation since November 1.

Residents of the Southwest Okanagan should be practicing water conservation, as unless there is a wet summer water shortages for those who rely on upland storage could occur.

Regional streamflows, as represented by the mean monthly inflows to Okanagan Lake, were only around half of normal during May. It is now appearing unlikely that Okanagan Lake will come to its usual 'full pool' level this summer.

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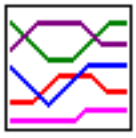
Vancouver Island & Coastal Regions


Data Graphs


Snow Survey Data Measurements

June 1

While southern Vancouver Island appears to have well below normal mountain snowpacks, central Vancouver Island, from sparse data, appears to have near normal mountain snow. The overall Vancouver Island snow index is at 81% of normal for June 1. Precipitation during May was below normal, however cumulative precipitation since November 1 has been above normal.

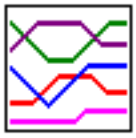
The South Coast has well below normal mountain snowpacks, with a snow water index of only 62% of normal for June 1. Precipitation during May was only 80% of normal, however the cumulative precipitation since November 1 has been near normal. While there is a small area on the south-central coast which appears to have above normal snowpacks (Nostetuko snow pillow to Upper Mosely pillow), the central coast, from sparse data, appears to have well below normal mountain snowpacks.

Unless there is a wetter than normal summer, the Lower Mainland supplied by the mountains on the north side of the valley may have water shortages.

Regional streamflows, as represented by the mean monthly inflows to Upper Campbell Lake, were near normal again during May.

· Top

North East Region



Data Graphs

Snow Survey Data Measurements

June 1

As it has most of the winter, the Peace basin appears to have around 80% of normal snowpacks for June 1. May had less than half of its normal precipitation, however the cumulative precipitation over the winter has been near normal.

While there is next to no data on the Liard basin snowpacks, the mean monthly temperature at Fort Nelson was normal for May, and so snowpacks there should still be above normal for this date.

Streamflows, as represented by the mean monthly inflows to Williston Lake, were slightly below normal 93% during May.

in the region are slightly lower than usual for this date due to the recent cooler weather. Any sustained heat will bring flows up rapidly.

Top

NorthWest Region

Data Graphs

Snow Survey Data Measurements

June 1

The Skeena/Nass snow water equivalent index for June 1 is at 75%, well below normal. While May has been drier than usual, cumulative precipitation since November 1 has been near normal. Snowline appears to be higher than usual for this date.

The Stikine basin, from very little data, appears to have slightly lower than normal June 1 mountain snowpacks.

Streamflows in the region, as represented by the mean monthly flow in the Skeena River at Usk, were slightly below normal (89%) over May, probably due to less than normal lower elevation snow to melt. The Skeena may peak from the sustained heat of these next few days, unless this heat is followed by sustained rainfall over the next week or so, which could bring levels higher. Damaging flooding is less likely than normal this freshet.

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UPPER and MIDDLE FRASER

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	26	No Snow		411	0	411	0	71	29
HEDRICK LAKE	1A14P	1100	01	-	23	1380	296	1380	296	686*	3
BIRD CREEK	1A23	1180	02	No Snow		0	0	0	0	-	9
BARKERVILLE	1A03P	1520	01	No Snow		240	0	291	0	66	19
KNUDSEN LAKE	1A15	1580	26	114	521	1017	610	1039	0	662	28
MC BRIDE (UPPER)	1A02	1580	26	39	163	370	0T	592	0T	204	35
NARROW LAKE	1A21	1650	27	111	523	1093	728	1339	116	794	29
REVOLUTION CREEK	1A17P	1690	01	-	260	935	334	935	0	495	18
LONGWORTH (UPPER)	1A05	1740	26	94	454	1116	698	1194	0	591	46
DOME MOUNTAIN	1A19	1820	26	99	492	966	616	1062	0	664	31
YELLOWHEAD	1A01P	1860	01	-	454	645	263	857	0	464	6
HOLMES RIVER	1A18	1900	26	138	642	874	562	1029	84	687	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

NECHAKO

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
SKINS LAKE	1B05	880	02	No Snow		0	0	0	0	-	14
TAHTSA LAKE	1B02	1300	02	144	682	1385	1099	1651	535	1007	28
TAHTSA LAKE	1B02P	1300	01	-	741	1548	1219	1576	277	1001	10
KIDPRICE LAKE	4B01	1370	02	85	415	1177	822	1209	0	666	28
MOUNT PONDOSY	1B08P	1400	01	-	250	951	509	951	0	280	10
MOUNT WELLS	1B01	1490	02	No Snow		529	317	529	0	250	26
NUTLI LAKE	1B07	1490	02	No Snow		615	321	615	0	267*	12
MOUNT WELLS	1B01P	1490	01	-	91	607	366	607	0	250	11
MOUNT SWANNELL	1B06	1620	02	45	95	346	202	350Z	0	130*	14

A - SAMPLING PROBLEMS WERE ENCOUNTERED
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E - ESTIMATED BASED ON AREAL AVERAGE
* - PERIOD OF RECORD AVERAGE

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	01	-	19	353	83	435	0	175	9
BRENDA MINE	2F18P	1460	01	No Snow		0	0	0	0	-	9
BARKERVILLE	1A03P	1520	01	No Snow		240	0	291	0	66	19
YANKS PEAK EAST	1C41P	1670	01	-	236	911	476	1016	476	590	5
PENFOLD CREEK	1C23	1680	27	149	719	1157	680	1354	353	847	32
GREEN MOUNTAIN	1C12P	1780	01	-	738	905	363	1183	229	610	9
MISSION RIDGE	1C18P	1850	01	-	180	229	0	573	0	151	15

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

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MIDDLE and LOWER FRASER

June 1, 2003

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	01	-	19	353	83	435	0	175	9
BRENDA MINE	2F18P	1460	01	No Snow		0	0	0	0	-	9
BARKERVILLE	1A03P	1520	01	No Snow		240	0	291	0	66	19
YANKS PEAK EAST	1C41P	1670	01	-	236	911	476	1016	476	590	5
PENFOLD CREEK	1C23	1680	27	149	719	1157	680	1354	353	847	32
GREEN MOUNTAIN	1C12P	1780	01	-	738	905	363	1183	229	610	9
MISSION RIDGE	1C18P	1850	01	-	180	229	0	573	0	151	15

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

LOWER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
CALLAGHAN CREEK	3A20	1040	30	20	120	254	26	1228	0	220	19
DISAPPOINTMENT LAKE	1D18P	1040	26	-	655P	1582P	-	1582P	1087	1335*	2
DOG MOUNTAIN	3A10	1080	26	56	280	1227	455	2480Z	56	850	16
BEAVER PASS	WA12	1120	29	26	140	579	0	1270	0	376*	9
SPUZZUM CREEK	1D19P	1180	01	-	773	1823	825	1823	825	1384*	3
WAHLEACH LAKE	1D09P	1400	01	-	713	1225	716	1359	0	650	10
CHILLIWACK RIVER	1D17P	1600	01	-	1009	1969	930	1969	237	1031*	7
GREAT BEAR	1D15P	1660	01	-	1433	2539	934	2539	908	1568	11
TENQUILLE LAKE	1D06	1680	31	217	1132	1128	745	1790	365	986	47
TENQUILLE LAKE	1D06P	1680	01	-	986	998	563	998	563	781*	2

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SKAGIT

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FREEZEOUT CREEK TRAIL	WA11	1070	29	No Snow		0	0	152	0	17*	10

BEAVER PASS	WA12	1120	29	26	140	579	0	1270	0	376*	9
HARTS PASS	WA09	1980	29	165	881	1445	338	1737	338	971*	11
HARTS PASS	WA09P	1980	01	-	686	993	76	1557	76	615	6

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

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Banner

THOMPSON

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
COOK CREEK	1E14P	1280	01	No Snow		0	0	8	0	3*	3
COOK FORKS	1E06	1390	30	54	245	628	164	1026	0	400	40
BOSS MOUNTAIN MINE	1C20P	1460	01	-	19	353	83	435	0	175	9
MOUNT COOK	1E02P	1550	01	-	979	1579	755	1579	755	1167*	2
MOUNT COOK	1E02A	1580	30	175	878	1301	770	1744	377	1075	29
AZURE RIVER	1E08P	1620	01	-	788	1369	683	1778	530	1030	6
ADAMS RIVER	1E07	1720	04	71	372	834	470	1155	0	595	33
KOSTAL LAKE	1E10P	1770	01	-	580	984	638	1377	155	700	18
NORTH CLEMINA CREEK	1E13	1860	26	166	757	1040	535	1135	318	768	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
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SOUTH THOMPSON

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
ADAMS RIVER	1E07	1720	04	71	372	834	470	1155	0	595	33
SILVER STAR MOUNTAIN	2F10	1840	28	112	528	845	350	980	0	468	44
PARK MOUNTAIN	1F03P	1890	01	-	803	1036	512	1269	296	742	17
ENDERBY	1F04	1900	31	183	890	1195	701	1422	430	960	39

A - SAMPLING PROBLEMS WERE ENCOUNTERED
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E - ESTIMATED BASED ON AREAL AVERAGE
* - PERIOD OF RECORD AVERAGE

MIDDLE FRASER

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

BOSS MOUNTAIN MINE	1C20P	1460	01	-	19	353	83	435	0	175	9
BRENDA MINE	2F18P	1460	01	No Snow		0	0	0	0	-	9
BARKERVILLE	1A03P	1520	01	No Snow		240	0	291	0	66	19
YANKS PEAK EAST	1C41P	1670	01	-	236	911	476	1016	476	590	5
PENFOLD CREEK	1C23	1680	27	149	719	1157	680	1354	353	847	32
GREEN MOUNTAIN	1C12P	1780	01	-	738	905	363	1183	229	610	9
MISSION RIDGE	1C18P	1850	01	-	180	229	0	573	0	151	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

* - PERIOD OF RECORD AVERAGE

Banner

COLUMBIA

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
AZURE RIVER	1E08P	1620	01	-	788	1369	683	1778	530	1030	6
MOUNT REVELSTOKE	2A06P	1830	01	-	997	1699	857	2063	240	1146	10
NORTH CLEMINA CREEK	1E13	1860	26	166	757	1040	535	1135	318	768	14
MOLSON CREEK	2A21P	1980	01	-	953	1234	705	1512	98	810	19
BOW SUMMIT II	AL07A	2080	28	49	201	350	0	414	0	171*	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

LOWER COLUMBIA

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
BARNES CREEK	2B06P	1620	01	-	383	341	0	529	0	205	10
ST. LEON CREEK	2B08P	1800	01	-	908	1466	428	1580	225	815	9
RECORD MOUNTAIN	2B09	1890	Not Available			675	38	1073	0	442	28
EAST CREEK	2D08P	2030	01	-	683	938	315	1256	111	770	20

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

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
SULLIVAN MINE	2C04	1550	01	No Snow		0	0	137	0	13	20
BANFIELD MOUNTAIN	MT05P	1710	01	No Snow		124	0	254	0	74	6
MORRISSEY RIDGE	2C09Q	1800	01	-	244	810	168	810	0	140	18
RED MOUNTAIN	MT04	1830	29	18	36	-	-	559	0	135*	37
MOYIE MOUNTAIN	2C10P	1930	01	No Snow		120	0	438	0	60	17
HAWKINS LAKE	MT06P	1970	01	-	170	551	10	947	8	495	6
FLOE LAKE	2C14P	2090	01	-	675	792	289	979	98	610	8
HIGHWOOD SUMMIT (BUSH)	AL02	2210	27	97	381	671	137	671	89	373*	22
SUNSHINE VILLAGE	AL05	2230	29	114	498	686	157	902	107	507*	18

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

					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
BUNCHGRASS MEADOW	WA01P	1520	01	-	366	368	0	800	0	127	6
EAST CREEK	2D08P	2030	01	-	683	938	315	1256	111	770	20
REDFISH CREEK	2D14P	2104	01	-	1185	1624	-	1624	1624	1624*	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

KETTLE, OKANAGAN and SIMILKAMEEN

June 1, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
BIG WHITE MOUNTAIN	2E03	1680	03	28	124	270	44	658	0	202	37
GRANO CREEK	2E07P	1860	01	-	390	604	124	754	11	385*	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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record

BRENDA MINE	2F18P	1460	01	No Snow		0	0	0	0	-	9
ISINTOK LAKE	2F11	1680	01	No Snow		0	-	211	0	25	18
MISSION CREEK	2F05P	1780	01	-	308	488	146	641	0	236	31
MOUNT KOBAU	2F12	1810	31	25	128	229	0	488	0	132	37
WHITEROCKS MOUNTAIN	2F09	1830	29	No Snow		391	0	848	0	196	31
SILVER STAR MOUNTAIN	2F10	1840	28	112	528	845	350	980	0	468	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

					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
FREEZEOUT CREEK TRAIL	WA11	1070	29	No Snow		0	0	152	0	17*	10
ISINTOK LAKE	2F11	1680	01	No Snow		0	-	211	0	25	18
BLACKWALL PEAK	2G03P	1940	01	-	443	889	34	1253	0	452	35
HARTS PASS	WA09	1980	29	165	881	1445	338	1737	338	971*	11
HARTS PASS	WA09P	1980	01	-	686	993	76	1557	76	615	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

Banner

COASTAL

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09P	880	Not Available			-	-	354	354	354*	1
CALLAGHAN CREEK	3A20	1040	30	20	120	254	26	1228	0	220	19
DOG MOUNTAIN	3A10	1080	26	56	280	1227	455	2480Z	56	850	16
ORCHID LAKE	3A19	1190	26	220	1056	1572	1100	3648Z	174	1560	24
ORCHID LAKE	3A19P	1190	01	-	1142	1621	976	2463	124	1509*	14
UPPER SQUAMISH RIVER	3A25P	1340	01	-	1129	1253	773	1485	634	1220	12
NOSTETUKO RIVER	3A22P	1500	01	-	150	206	-	530	0	85*	11
UPPER MOSELY CREEK	3A24P	1650	01	-	38	0	0	204	0	25*	14

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED
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* - PERIOD OF RECORD AVERAGE

VANCOUVER ISLAND

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
TENNENT LAKE	3B22	950	Not Available			-	-	712	0	380	10
JUMP CREEK	3B23P	1160	01	-	101	968	300	983	0	520	6
WOLF RIVER (UPPER)	3B17P	1490	01	-	1362	869	744	2465	305	980	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
* - PERIOD OF RECORD AVERAGE

NORTH COASTAL

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
TAHTSA LAKE	1B02	1300	02	144	682	1385	1099	1651	535	1007	28

TAHTSA LAKE	1B02P	1300	01	-	741	1548	1219	1576	277	1001	10
BURNT BRIDGE CREEK	3C08P	1330	01	-	176	649	364	686	0	373*	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

June 1, 2003

PEACE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	26	No Snow		411	0	411	0	71	29
AIKEN LAKE	4A30P	1040	01	No Snow		0	0	0	0	-	16
PULPIT LAKE	4A09P	1310	01	No Snow		55	189	189	0	48*	12
PINE PASS	4A02P	1400	01	-	634	1305	908	1305	183	795	10
KWADACHA RIVER	4A27P	1620	01	-	199	311	195	458	0	240*	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

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
DEADWOOD RIVER	4C09P	1300	01	No Snow		0	0	31	0	3*	9

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

June 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) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
KINASKAN LAKE	4D11P	1020	01	No Snow		0	0	83	0	11*	12
TUMEKA CREEK	4D10P	1220	01	-	180	218	265	488	0	173*	13
WADE LAKE	4D14P	1370	01	-	30	83	233	243	0	92*	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

					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
GRANDUC MINE	4B12P	790	01	-	1084	904	-	904	904	904*	1
CEDAR-KITEEN	4B18P	885	01	No Snow		289	356	356	289	323*	2
LU LAKE	4B15P	1310	01	No Snow		180	-	180	0	52*	4
TSAI CREEK	4B17P	1360	01	-	761	1826	1181	1826	371	1147*	5
KIDPRICE LAKE	4B01	1370	02	85	415	1177	822	1209	0	666	28
HUDSON BAY MTN.	4B03A	1480	29	63	254	596	397	729	0	288	30
SHEDIN CREEK	4B16P	1480	01	-	446	990	1075	1075	98	755*	7
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											

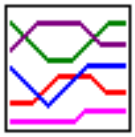
Banner

Snowpack and Water Supply Outlook for British Columbia

May 15, 2003

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



B.C Summary Graphs of Snow Water Equivalents

The May 15 snow survey is of a relatively small number of stations compared with the surveys done in the previous measurements. Data from 37 snow courses and 58 snow pillows around the province have been used to form the basis for the following reports.

Snowpack

Mountain snowpacks have melted less than usual over the last two weeks due to the cool weather. There has been some continued accumulation of snow at higher elevations, especially in the Upper Fraser, Thompson, Columbia, and Kootenay basins. While most of the province continues to have less snow than usual for this date, the Columbia and Kootenay now have near normal snowpacks for May 15. From very little data, the Liard still has above normal snowpacks.

Weather

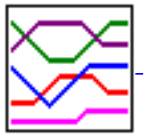
The first two weeks of May have been cooler than usual, and while some snow melt has occurred, it has been much less than normal for the last two weeks. Some higher elevation stations, have seen continued accumulation of snow, where normally we would see significant melt over this period. Precipitation has been less than normal over the first two weeks of May.

Outlook

Freshet volumes in the Liard may be above normal, and in the Columbia &

Kootenay regions near normal. However they will likely be below to well below normal in most of the rest of the province. Unless the late spring and early summer is wetter than usual, the plateau areas of the central interior will have much less runoff than usual. If the late spring and summer are dry, the lower mainland and the south half of the west side of Okanagan Lake may experience water shortages.

Upper Fraser & Nechako Basins


Data Graphs


Snow Survey Data Measurements

May 15

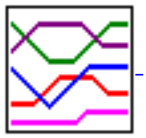
Weather in the first half of May has been cooler than usual, with approximately normal precipitation. Temperatures have been low enough that we have seen some continued snow accumulation at higher elevations. Snowpacks, however, are still well less than normal for May 15.

Streamflows are low due to the cool weather, however any extended heat will bring them up rapidly. With the less than normal snowpacks, it would take extremely unusual weather over the next month to create serious flooding on larger rivers. Depending on whether the summer is wet or dry, water supply in smaller, low lying basins on the plateau could become a problem.

Note that the precipitation index station for the Nechako in the data graphs has been changed to Wistaria, on the north shore of Ootsa Lake, as Fort St James data has usually not been available at publishing time. Therefore this accumulated winter precipitation index is now more representative of the reservoir portion of the Nechako than the Stuart River.

· Top

Middle and Lower Fraser


Data Graphs


Snow Survey Data Measurements

May 15

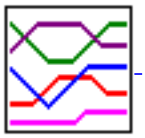
Despite the slower than usual melt due to cool weather, snowpacks in the middle

Fraser remain well below normal for this date, with the exception of the Bridge River basin, with above normal mountain snowpacks for May 15. Smaller, low elevations basins on the majority of the plateau country may be short of water this summer, unless the summer is wetter than normal.

Streamflows are low at this time due to the last week of cool weather, however any extended period of hot weather in the next few weeks will bring them up rapidly. Damaging flooding along the mainstem Fraser appears unlikely this freshet due to the generally well less then normal snowpacks. Smaller systems which may have heavier runoff are the Lillooet and Bridge Rivers.

· Top

Thompson Basin


Data Graphs


Snow Survey Data Measurements

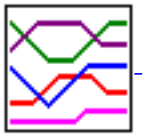
May 15

Due to the generally cooler than usual weather over the last two weeks, snowmelt has been slow, with a few upper elevation stations in the North Thompson, and most in the South Thompson, showing continued snow accumulation. While snowpacks for the North Thompson are still less than usual, the South Thompson mountain snowpacks are near normal for May 15.

Streamflow are low at this time due to the cool weather of the last week, however any extended warm weather will bring them up rapidly. However, it would take extremely unusual weather in the next month or so to create damaging flooding along the North Thompson this freshet.

· Top

Columbia Basin


Data Graphs


Snow Survey Data Measurements

May 15

Snowpacks at upper elevations in the Columbia have mostly continued to accumulate snow over the last two weeks, with slow melt at mid-elevations, due to cooler than usual weather. Mountain snowpacks are near normal for May 15.

Streamflows are quite low due to this cool weather, and the slightly lower than normal precipitation. Any extended hot weather over the next 6 weeks or so will bring streams up rapidly.

Top

Kootenay Basin


Data Graphs


Snow Survey Data Measurements

May 15

Snowpacks in the Kootenays are near to slightly above normal for May 15. Cooler weather than usual has slowed mid-elevation melt, and some upper elevation stations have showed slight continued accumulation over the last two weeks.

Streamflows are low for this date due to the cool weather, however any extended hot weather will bring water levels up rapidly.

Top

Okanagan, Kettle, and Similkameen Basins


Data Graphs


Snow Survey Data Measurements

May 15

Due to overall cooler than normal weather over the last two weeks, mid-elevation snowmelt has been slower than usual, and a few upper elevation stations have shown some snow accumulation. Mountain snowpacks in the Kettle, and northeast

Okanagan, appear to be near normal for May 15, with those in the southwest Okanagan much less than usual. From sparse data, the Similkameen, due to delayed melt and some late accumulations, has a much closer to normal mountain snowpack than earlier, though still less than usual.

Streamflows are low for this date due to the cool weather and slow snow melt, however any extended hot weather will bring them up rapidly.

Top

Vancouver Island & Coastal Regions


Data Graphs


Snow Survey Data Measurements

May 15

From very limitted data, the melt of mountain snowpacks on central Vancouver Island also appear to have been delayed due to cool weather, and are now above normal. On southern Vancouver Island they are still well below normal for May 15. While the very southern coast between Squamish and Vancouver has much less than normal snow for this date, mountainous areas north of Whistler (adjacent to the Lillooet and Bridge basins) now have above normal snowpacks for May 15. Very sparse data indicates the Central Coast has below normal snowpacks for this date.

Streamflows are low for this time of spring freshet throughout the region, but will rise rapidly with any extended hot weather.

Top

North East Region


Data Graphs


Snow Survey Data Measurements

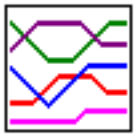
May 15

From relatively few measurements on this smaller survey, melt appears to have been slower than usual over the last two weeks, with some continued snow accumulation at higher elevations. The Peace basin apears to still have a lower than usual snowpack for May 15, and the Liard continues to have more snow than normal.

Streamflows in the region are slightly lower than usual for this date due to the recent cooler weather. Any sustained heat will bring flows up rapidly.

Top

NorthWest Region



Data Graphs

Snow Survey Data Measurements

May 15

From the small survey done, melt appears to have been proceeding at a near normal rate in the northwest of BC. Snowpacks appear to be still less than normal in the Skeena and Nass mountains, and slightly less than normal in the Stikine. Streamflows in the region are slightly lower than usual for this time of freshet due to the recent cool weather, however they will rise rapidly given any sustained heat over the next few weeks.

Top

footer graphic

Banner

UPPER and MIDDLE FRASER

May 15, 2003

UPPER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	09	48	214	694	249	728	0	341	28
HEDRICK LAKE	1A14P	1100	15	-	435	998	623	998	623	813*	3
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
KNUDSEN LAKE	1A15	1580	09	154	660	1075	705	1205	359	832	28
MC BRIDE (UPPER)	1A02	1580	09	79	297	448	255	752	24	367	35
NARROW LAKE	1A21	1650	10	158	690	-	797	1375	489	950	27
REVOLUTION CREEK	1A17P	1690	15	-	443	1074	495	1161	228	713	17
LONGWORTH (UPPER)	1A05	1740	09	139	616	1172	768	1219	292	772	49
DOME MOUNTAIN	1A19	1820	09	136	604	999	682	1168	385	813	30
YELLOWHEAD	1A01P	1860	15	-	611	731	383	825	139	579	6
HOLMES RIVER	1A18	1900	09	174	688	928	571	1125	359	777	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

NECHAKO

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
TAHTSA LAKE	1B02P	1300	15	-	972	1765	1286	1765	732	1255	10
MOUNT PONDOSY	1B08P	1400	15	-	561	1198	680	1198	314	645	10
MOUNT WELLS	1B01P	1490	15	-	344	759	497	759	277	510	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											

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25

MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

Banner

MIDDLE and LOWER FRASER

May 15, 2003

MIDDLE FRASER

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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

LOWER FRASER

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
DISAPPOINTMENT LAKE	1D18P	1040	15	-	730P	1930P	-	1930P	1652	1791*	2
DOG MOUNTAIN	3A10	1080	15	94	431	1565	-	2920Z	0	1100	17
SPUZZUM CREEK	1D19P	1180	15	-	1032	2085	1069	2085	1069	1663*	3
WAHLEACH LAKE	1D09P	1400	15	-	911	1436	942	1624	335	960	11
CHILLIWACK RIVER	1D17P	1600	15	-	1335	2186	1166	2186	764	1249*	8
GREAT BEAR	1D15P	1660	15	-	1425	2411	1114	2436	1114	1823	11
TENQUILLE LAKE	1D06	1680	15	267	1248	1328	875	1875	625	1162	46
TENQUILLE LAKE	1D06P	1680	15	-	1144	1211	765	1211	765	988*	2

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

SKAGIT

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
HARTS PASS	WA09P	1980	Not Available		1285	467	1748	467	952	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

Banner

THOMPSON

May 15, 2003

NORTH THOMPSON

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
COOK CREEK	1E14P	1280	15	No Snow		308	143	345	143	265*	3
COOK FORKS	1E06	1390	17	110	489	924	498	1359	274	688	39
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
MOUNT COOK	1E02P	1550	15	-	1196	1793	953	1793	953	1373*	2
MOUNT COOK	1E02A	1580	17	237	1077	1544	992	1856	873	1270	27
AZURE RIVER	1E08P	1620	15	-	923	1406	806	1665	806	1230	6
ADAMS RIVER	1E07	1720	13	146	678	972	638	1158	280	712	31
KOSTAL LAKE	1E10P	1770	15	-	691	1058	709	1357	588	887	18
NORTH CLEMINA CREEK	1E13	1860	09	194	813	1060	683	1177	536	856	12

TROPHY MOUNTAIN	1E03A	1860	11	125	499	796	722	1114	301	608	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

SOUTH THOMPSON

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
ADAMS RIVER	1E07	1720	13	146	678	972	638	1158	280	712	31
SILVER STAR MOUNTAIN	2F10	1840	12	161	685	895	515	1054	100	661	44
PARK MOUNTAIN	1F03P	1890	15	-	864	1090	699	1321	474	927	18
ENDERBY	1F04	1900	14	250	1060	1366	768	1499	662	1089	40

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

	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
BOSS MOUNTAIN MINE	1C20P	1460	15	-	304	664	364	761	184	464	9
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
BARKERVILLE	1A03P	1520	15	-	105	420	154	503	0	234	25
MOUNT TIMOTHY	1C17	1660	11	42	140	330Z	218	466	0	201	34
YANKS PEAK EAST	1C41P	1670	15	-	511	1046	683	1125	398	800	6
PENFOLD CREEK	1C23	1680	10	196	884	1223	805	1400	585	1019	33
GREEN MOUNTAIN	1C12P	1780	15	-	1009	1106	625	1366	573	845	9
MISSION RIDGE	1C18P	1850	15	-	463	512	262	878	0	382	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

Banner

COLUMBIA

May 15, 2003

UPPER COLUMBIA

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
AZURE RIVER	1E08P	1620	15	-	923	1406	806	1665	806	1230	6
MOUNT REVELSTOKE	2A06P	1830	15	-	1133	1567	969	1777	700	1297	10
NORTH CLEMINA CREEK	1E13	1860	09	194	813	1060	683	1177	536	856	12
MOLSON CREEK	2A21P	1980	15	-	1061	1335	795	1375E	602	1040	20

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

					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
FARRON	2B02A	1220	16	4	14	32	27	222	0	110	23
BARNES CREEK	2B06P	1620	15	-	675	555	289	761	94	438	10
ST. LEON CREEK	2B08P	1800	15	-	1031	1481	653	1568	639	1080	9
RECORD MOUNTAIN	2B09	1890	11	168	727	818	397	1367	83	676	28
EAST CREEK	2D08P	2030	15	-	806	956	480	1387	461	925	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

May 15, 2003

EAST KOOTENAY

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FERNIE EAST	2C07	1250	18	4	8	156	0	290	0	46	41
SULLIVAN MINE	2C04	1550	15	No Snow		213	0	457	0	105	51
BANFIELD MOUNTAIN	MT05P	1710	15	-	236	373	112	569	0	305	5
MORRISSEY RIDGE	2C09Q	1800	15	-	731	1091	217	1091	0	460	19
MOYIE MOUNTAIN	2C10P	1930	15	-	308	431	100	552	0	255	22
HAWKINS LAKE	MT06P	1970	15	-	523	737	302	1067	178	706	6
FLOE LAKE	2C14P	2090	15	-	874	897	495	1088	304	765	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

WEST KOOTENAY

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
CHAR CREEK	2D06	1310	15	73	316	358	120A	715	0	279	33
BUNCHGRASS MEADOW	WA01P	1520	15	-	665	678	310	1163	307	582	6
GRAY CREEK (LOWER)	2D05	1550	14	95	403	-	-	709	0	351	48
GRAY CREEK (UPPER)	2D10	1910	14	196	839	-	-	1194	311	765	29
EAST CREEK	2D08P	2030	15	-	806	956	480	1387	461	925	21
REDFISH CREEK	2D14P	2104	15	-	1387	1748	-	1748	1748	1748*	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

KETTLE, OKANAGAN and SIMILKAMEEN

May 15, 2003

KETTLE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
FARRON	2B02A	1220	16	4	14	32	27	222	0	110	23
BIG WHITE MOUNTAIN	2E03	1680	18	107	426	512	282	732	0	390	37
GRANO CREEK	2E07P	1860	15	-	593	675	353	855	308	563*	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	15	No Snow		0	0	218	0	32	37
VASEUX CREEK	2F20	1400	15	No Snow		0	0	80	0	9	31
TROUT CREEK	2F01	1430	15	No Snow		0	0	307	0	30	50
BRENDA MINE	2F18P	1460	15	No Snow		17	0	125	0	24*	10
GREYBACK RESERVOIR	2F08	1550	15	6	26	78	56	323	0	100	31
ISINTOK LAKE	2F11	1680	14	1	4	66	0	386	0	78	37
MISSION CREEK	2F05P	1780	15	-	540	638	368	829	0	407	31
MOUNT KOBAU	2F12	1810	14	85	314	306	193	516	0	254	36
WHITEROCKS MOUNTAIN	2F09	1830	15	71	289	618	243	968	0	401	32
SILVER STAR MOUNTAIN	2F10	1840	12	161	685	895	515	1054	100	661	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

					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
MISSEZULA MOUNTAIN	2G05	1550	Not Available			117	0	218	0	54	39
ISINTOK LAKE	2F11	1680	14	1	4	66	0	386	0	78	37
LOST HORSE MOUNTAIN	2G04	1920	16	60	191	254	76	577	4	192	39

BLACKWALL PEAK	2G03P	1940	15	-	671	1110	341	1481	208	706	35
HARTS PASS	WA09P	1980	Not Available			1285	467	1748	467	952	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

Banner

COASTAL

May 15, 2003

SOUTH COASTAL

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PALISADE LAKE	3A09P	880	Not Available			-	-	1045	1045	1045*	1
DOG MOUNTAIN	3A10	1080	15	94	431	1565	-	2920Z	0	1100	17
ORCHID LAKE	3A19	1190	15	256	1230	1927	-	3730A	774	1900	22
ORCHID LAKE	3A19P	1190	15	-	1390	1899	1284	2804	828	1870*	15
UPPER SQUAMISH RIVER	3A25P	1340	15	-	1384	1526	1061	1796	949	1515	12
NOSTETUKO RIVER	3A22P	1500	15	-	420	563	-	860	21	378*	11
UPPER MOSELY CREEK	3A24P	1650	15	-	207	236	94	402	0	142*	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

					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
JUMP CREEK	3B23P	1160	15	-	521	1474	724	1474	251	975	6
WOLF RIVER (UPPER)	3B17P	1490	15	-	1649	1103	1024	1726	507	1300	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

					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
TAHTSA LAKE	1B02P	1300	15	-	972	1765	1286	1765	732	1255	10

BURNT BRIDGE CREEK	3C08P	1330	15	-	484	994	574	994	210	638*	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

May 15, 2003

PEACE

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
PACIFIC LAKE	1A11	770	09	48	214	694	249	728	0	341	28
AIKEN LAKE	4A30P	1040	15	-	60	168	0	188	0	49*	16
PULPIT LAKE	4A09P	1310	15	-	292	369	448	454	49	230	12
PINE PASS	4A02P	1400	15	-	850	1393	1039	1471	813	1073	11
KWADACHA RIVER	4A27P	1620	15	-	311	383	304	468	109	342*	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

	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
DEADWOOD RIVER	4C09P	1300	15	No Snow		19	37	207	0	48*	9

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

May 15, 2003

STIKINE/TAKU

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 2003	2002	2001	Max.	Min.	Normal	No. Years Record
KINASKAN LAKE	4D11P	1020	15	-	259	259	238	411	0	177*	12
TUMEKA CREEK	4D10P	1220	15	-	412	458	506	771	195	456*	13
WADE LAKE	4D14P	1370	15	-	244	296	380	427	0	271*	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
LOG CABIN	4E01	880	20	No Snow		355	326	420	4	200	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

* - PERIOD OF RECORD AVERAGE

SKEENA/NASS

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
GRANDUC MINE	4B12P	790	15	-	1455	1545	-	1545	1545	1545*	1
CEDAR-KITEEN	4B18P	885	15	-	120	653	514	653	514	584*	2
LU LAKE	4B15P	1310	15	No Snow		416	-	416	11	167*	4
TSAI CREEK	4B17P	1360	15	-	975	1909	1159	1909	953	1299*	5
HUDSON BAY MTN.	4B03A	1480	15	95	354	701	426	752	160	441	30
SHEDIN CREEK	4B16P	1480	15	-	713	1155	1114	1159	660	978*	7

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