SNOWPACK and WATER SUPPLY OUTLOOK
in
BRITISH COLUMBIA

April 1, 1997

The April 1 snow survey has been conducted throughout the province with a total of 209 snow courses being measured. These readings, together with data from 41 snow pillows, 26 snow courses from adjacent jurisdictions and weather and flow data provided by Environment Canada have been used in making the following reports.

Snowpack

The highest readings of the year occur at this sampling period at many snow courses throughout the province. However, further accumulations will occur at some stations, particularly at the higher elevations. March accumulations were generally a little greater than normal with the result that almost all areas of the province now have above or well above normal snowpacks. The graphs below show this year's snow pack by region compared with the previous two years. The snowpacks in the northwest of the province are a little below normal while those in the South Thompson, the Kootenays and the Okanagan-Kettle are above normal

Weather

The majority of the province received above normal precipitation during March - the only exception was the Similkameen basin where precipitation was slightly below normal. November through March accumulations remain above normal for all areas except the northwest regions of the province. Mean temperatures during March varied from 3oC below normal at the Alaskan border to near normal in the south.

Outlook

With most areas of the province having greater than normal snowpacks for this date, it appears that runoff volumes will be above normal. Due to the wet fall and winter, many areas report that the ground is much wetter than normal and this, as well as causing slope stability problems, will increase the volume of the runoff when snowmelt occurs. Any time there is an above normal snowpack, there is the potential for flooding to occur if the melt sequence is early and/or rapid. This, of course, depends on the weather patterns during the next eight to ten weeks.

Areas where the potential for flooding is the greatest include the Nicola, South Thompson, Okanagan, Kettle, lower Columbia, upper Columbia upstream of Golden, Kootenays, Nechako, Babine and Bulkley basins.

UPPER FRASER AND NECHAKO

Above normal March precipitation combined with temperatures a little below normal have resulted in greater than normal snowpack accumulations throughout the basin. The increase has been particularly noticable in the Nechako basin where the reservoir catchment snowpack is estimated at 28% above normal. In the uncontrolled portion of the Nechako basin , the snowpack is close to record high levels for this time of year. The April through September runoff of inflow to the Nechako Reservoir is for 145% of normal.

The snowpack in the upper Fraser is estimated to be 111% of normal and this, combined with other indicators has resulted in an April through September forecast for the Fraser River at Marguerite of 37,000 million cubic metres which is 8% greater than normal for this period.

Natural flow in the basin during March, as indicated by the Fraser River at Marguerite, was a little below normal for the third consecutive month.

MIDDLE AND LOWER FRASER

Precipitation throughout the middle and lower Fraser basins during March was considerably above normal and this resulted in above normal accumulation of snow at most stations. The regional snowpack indices for the middle and lower Fraser basins are estimated to be 110 and 117% of normal, respectively, up from 107 and 110 % a month ago.

The snowpack in the Nicola River basin is well above normal and the freshet runoff into the lake is forecast to be 177 million cubic metres which is 155% of normal. Nicola Lake has been drawn down in anticipation of this runoff, but high flows out of the lake can be expected for the next few weeks.

The flow in the Fraser River at Hope has been near normal all winter. The April through September forecast for this station is for a volume 15% greater than normal. Peak flows greater than normal can be anticipated, but the peak levels will depend on when, and how rapidly, the snow melts. Weather patterns in the next three months will determine the peak levels. An early fast melt could cause some quite high river levels, while a slow gradual melt would result in peak levels well within the capacity of the rivers.

NORTH AND SOUTH THOMPSON

March precipitation was considerably above normal throughout the basin with the November through March total precipitation estimated to be 129% of normal in the north and 143% in the south, respectively.

The snowpack accumulations during March were greater than normal and the regional snowpack indices for the North and South Thompson are now estimated to be 112 and 125% of normal, respectively. This is considerably greater than was reported this time last year, particularly in the South Thompson.

The flow as measured at the Environment Canada gauge on the Thompson near Spences Bridge has been more than 20% above normal all winter. The volume forecast for the North Thompson at McLure is for 112% of normal while that for the South Thompson River at Chase is for 132% of normal. These above normal volumes will probably result in above average peak levels being reached during the freshet. Whether these flows will be high enough to cause damage will largely depend on the rate of melt, which is a function of the weather patterns in the coming three months.

UPPER AND LOWER COLUMBIA

The mountain snow pack increased overall during March and remains above normal throughout the Columbia Basin. The regional snow water equivalent index increased from 102% of normal last month to 113% on April 1. With few exceptions stations are reporting snow packs between normal and 140% of normal. In the upper Columbia, Downie Slide (2A27) reported a 20 year high water equivalent of 137% of normal, while in the lower basin, Whatshan (Upper) (2B05), and Barnes Creek (2B06) with 39 and 40 year records report record high readings of 143 and 151% of normal, respectively.

Valley temperatures were 0.5 o C below normal during March. After a dry February, March precipitation was 169% of normal.

March runoff, as indicated by the Columbia River at Donald, was slightly above normal. The forecast runoff for the period April through September is 4950 thousand cubic decametres, 105% of the 1961-90 normal. With above normal snowpacks there is potential for above average peak flows with possible flooding in unregulated basins. The peak level reached is, however, largely a function of the weather pattern in the next few weeks

EAST AND WEST KOOTENAY

The April 1 snow water equivalent for the Kootenay basin increased slightly to 127% of normal, from the 124% reported on March 1. All snow courses reporting in the basin have snow water equivalents in the range of 100% to 140% of normal, with virtually no melting to date. Arrow Creek (2D11), with a 19 year record, reports a record high of 135% for this date.

The valley temperatures during March were 0.5 o C below normal. March precipitation was reported to exceed 200% of normal.

March runoff in the basin, indicated by the Kootenay River at Fort Steele, was 110% of the 1961-90 normal. The seasonal runoff for the period April to September, is forecast to be 5620 thousand cubic decametres, 120% of normal. Peak flows are expected to be higher than normal,

SOUTH COAST AND VANCOUVER ISLAND

For the April 1 snow survey period, snowpacks in the lower mainland/Howe Sound area continue to be above normal. To the northwest in the Homathko River drainage, water equivalents are below normal. Precipitation measured at valley bottom weather stations for

March was very heavy. The November-March total precipitation was a record high amount for the lower mainland, but near normal farther up the coast.

On Vancouver Island, the available data is all from the central part of the Island. Most snow courses are close to normal, while two of the lower elevation snow courses are above normal. Precipitation was very high for March, and the seasonal total is just above normal.

Mean monthly temperatures for March were near normal for the South Coast and Vancouver Island.

Monthly runoff into Upper Campbell Lake was 143% of normal for March, in keeping with the high precipitation. The seasonal runoff forecast for April through July is 98% of normal, assuming normal weather conditions during this period.

with the possibility of damaging flooding if there are any extended warm weather during the melt period.

OKANAGAN, SIMILKAMEEN AND KETTLE

March precipitation as measured at valley-bottom stations was 24% greater than normal and temperatures were close to normal for this time of year. Despite this, in the Okanagan and Kettle basins the snowpack accumulations were a little below normal and the regional snowpack is now estimated to be 127% of normal compared with 132% a month ago. In the Similkameen the index has risen from 117% to 124% of normal in the last month.

Seasonal volume runoff is expected to be above normal in all three basins and this will probably result in above normal peak flows. Whether flows and lake levels reach flood stage will depend largely on weather patterns over the next two or three months, particularly during the melting of high level snow in May and June. Rapid melting could result in high peak flows on both the Similkameen and Kettle Rivers. In anticipation of above normal runoff, releases from both Kalamalka and Okanagan lakes have been as high as practicable for some time to provide as much storage space for the freshet runoff as possible. High flows in the Okanagan River channel are likely throughout the spring.

Inflow to Okanagan Lake during March was more than twice normal. This was the 20th consecutive month in which inflows to the lake were greater than normal. The April through July forecast is for 665 million cubic metres which is 55% greater than the normal inflow for this period. Okanagan Lake is now considerably lower than it was at this time last year and it is hoped that the lake will peak at close to its normal maximum level.

April 1 snow surveys in the Peace River show above normal water content in the southern part of the basin, and slightly below normal in the northern part. Information from only a very few snow courses indicates that the Liard River basin snowpack is near normal for this date.

Based on only a few weather stations, precipitation in northeastern British Columbia is estimated to be as follows. Peace River basin: well above normal for March, with the November-March

total at 130% of normal. Liard River basin: March was above normal, and the November-March total is 84%. Mean monthly temperatures in the northeast were 2-3 oC colder than normal.

Regional runoff is indicated by inflow to Williston Lake which was 146% of normal for March, continuing the trend that began in December. The runoff forecast for April through September is 115% of normal, assuming average weather conditions during the period.

NORTHWESTERN

The snowpack in the Skeena-Nass region has increased more than normal during March. In the southern part near Terrace and Smithers, the snowpack is very heavy, with two snow courses reporting new records. However, in the headwater portions of the Skeena and Nass Rivers, the snowpack is close to normal.

In the Iskut and Stikine River basins, most snow courses show below normal water content. Farther north near the Yukon border, the four local snow courses show variable readings, but the average is near normal.

March precipitation in northwest British Columbia was above normal, and average monthly temperatures were about 1 oC cooler than normal. Total precipitation for November through March was normal.

March volume runoff in the Skeena River at Usk was 116% of normal, after four months of below normal flows. The runoff forecast for April through September is 110% of normal.

FRASER

April 1, 1997

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 1997	1996	1995	Max.	Min.	Normal	No. Years Record
UPPER FRASER											
PRINCE GEORGE A	1A10	690	31	55	141	101	36	313	0	132	35
PACIFIC LAKE	1A11	770	01	225	836	478	559	879	290	623	34
MCBRIDE (LOWER)	1A22	790	27	58	164	62	0	284	0	140	22
BURNS LAKE	1A16	800	27	92	264	196	186	234	0	125	26
FORT ST.JAMES	1A07	810	27	83	202	150	109	258	0	140	42
CANOE RIVER	2A01A	910	26	41	121	107	0	262	0	123	56
PHILIP LAKE	4A13	980	04	144	423	312	262	419	180	288	34
HEDRICK LAKE	1A14	1100	01	246	897	598	516	1046	351	689	30
MCBRIDE (MIDDLE)	1A20	1160	27	128	392	348	286	488	214	382	23
BIRD CREEK	1A23	1180	31	111	270	176	180A	180A	84	142*	7
KAZA LAKE	1A12	1190	04	137	389	442	283	453	226	330	32
LU LAKE	4B15	1300	01	149	484	360	300	396	170	310	20
FORFAR CREEK (UPPER)	1A24	1410	26	211	760	584	516	584	426B	525*	4
EQUITY MINE	4B14	1420	01	186	640	452	432	464	258	357	20
MOUNT SHEBA	4A18	1490	01	334	1140	783	824	1146	495	815	28
BARKERVILLE	1A03P	1520	01	-	461	-	-	524	269	393	20
MC BRIDE (UPPER)	1A02	1580	27	148	433	385	400	780	260	462	44
KNUDSEN LAKE	1A15	1580	01	259	910A	775	616	1255	485	864	28

NARROW LAKE	1A21	1650	27	296	1214	686	776	1350	541	895	22
REVOLUTION CREEK	1A17P	1690	01	-	839	815	671	1222	671	863	11
LONGWORTH (UPPER)	1A05	1740	Not Measured			676	562	1234	467	781	43
DOME MOUNTAIN	1A19	1820	26	230	838	601	640A	1057	416	802	26
MARMOT JASPER	AL12	1830	24	101	265B	263	213	422	152	244*	27
YELLOWHEAD	1A01	1860	26	185	538	648	531	770	293	520	45
YELLOWHEAD	1A01P	1860	01	181	225	-	-	-	-	-	0
HOLMES RIVER	1A18	1900	26	236	790	744	660	1029	459	748	27
NECHAKO											
SKINS LAKE	1B05	880	02	47	153	152	102	203	0	115	33
TAHTSA LAKE	1B02	1300	01	357	1378	1264	1283	1554	775	1117	44
TAHTSA LAKE	1B02P	1300	01	-	1551	-	1304	1500	860	1213	4
KIDPRICE LAKE	4B01	1370	01	296	1095	969	925	1247	622	888	43
MOUNT PONDOSY	1B08P	1400	01	-	985	948	1006	1006	576	830*	5
MOUNT WELLS	1B01	1490	01	199	711	594	466	960	356	516	42
MOUNT WELLS	1B01P	1490	01	-	725	677	542	677	494	603	5
NUTLI LAKE	1B07	1490	31	207	679	724	593	724	461	588*	6
MOUNT SWANNELL	1B06	1620	31	163	437	321	283	489	215	303*	8
MIDDLE FRASER											
PASS LAKE	1C04	870	27	47	110	53	8	224	0	58	46
PUNTZI MOUNTAIN	1C22	940	28	16	52	84	6	120C	0	28	27
BROOKMERE	1C01	980	31	96	296	275	186	399	92	211	52
NAZKO	1C08	1070	02	31	80	29	30	165B	0	71	38
BIG CREEK	1C21	1140	28	1	3	35	0	119	0	17*	26
GRANITE MOUNTAIN	1C33	1150	01	83	261	198	128	227A	128	191*	4
DUFFY LAKE	1C28	1200	02	178	777	405	506	638	244	484	19
PAVILION	1C06	1230	02	25	60	0	0	147	0	60	40
LAC LE JEUNE (LOWER)	1C07	1370	01	63	171	74	143	251	0	112	41

CONANT LAKE	1C31	1370	28	92	292	188	226	260B	56	206	16
BRIDGE GLACIER (LOWER)	1C39	1400	01	204	648	604	716	716	604	660*	2
TRANQUILLE LAKE	1C03	1420	27	97	281	193	221	381	116	232	46
DEADMAN RIVER	1C32	1430	28	46	122	81	60	188	30	122	13
BRALORNE	1C14	1450	01	82	271	130	211	389	0	173	34
BONAPARTE LAKE	1C34	1450	30	119	384	342	290	364	290	325*	4
SHOVELNOSE MOUNTAIN	1C29	1450	28	92	321	248	266	320	108	265	18
SPAHOMIN	1C30	1450	27	52	148	40	76	148	10	104	18
BOSS MOUNTAIN MINE	1C20P	1460	01	149	743	694	660	694	660	577	3
BRENDA MINE	2F18P	1460	01	-	497	469	388	469	227	356	4
LAC LE JEUNE (UPPER)	1C25	1460	01	75	222	105	185	226	43	147	24
BRENDA MINE	2F18	1460	25	123	398B	334	328	531	190	325	28
BOSS MOUNTAIN MINE	1C20	1500	28	194	702	632	666	782	397	583	29
HIGHLAND VALLEY	1C09A	1510	27	65	174	50	104	249	3A	102	31
BARKERVILLE	1A03P	1520	01	-	461	-	-	524	269	393	20
FISH LAKE	1C35	1540	27	26	64	0	115	165	0	93*	3
HORSEFLY MOUNTAIN	1C13A	1550	26	166	616	518	384	645A	282	462	27
FISH LAKE NO. 2	1C35A	1550	27	37	80	-	-	-	-	-	0
GNAWED MOUNTAIN	1C19	1580	27	69	185	53	122	307	37	140	29
GREEN MOUNTAIN	1C12	1630	01	208	717	625	-	1173	338	661	32
MOUNT TIMOTHY	1C17	1660	02	130	419	341	281	533	186	331	34
YANKS PEAK EAST	1C41P	1670	01	308	953	-	-	-	-	-	0
PENFOLD CREEK	1C23	1680	27	285	1106	1058	1060	1285	700	999	22
YANKS PEAK	1C24	1710	27	241	896	735	741	1045	475	763	24

TATLAYOKO LAKE	3A13	1710	02	84	225	338	302	563	74	252	45
GREEN MOUNTAIN	1C12P	1780	01	-	1021	954	1025	1025	884	954*	3
MCGILLIVRAY PASS	1C05	1800	01	200	766	571	684	1118	322	594	44
PORCUPINE RIDGE	1C02	1830	27	149	490	353	404	668	243	434	35
MISSION RIDGE	1C18P	1850	01	-	661	612	659	907	359	650	10
DOWNTON LAKE (UPPER)	1C38	1890	01	257	884	1030	1014	1030	1014	1022	2
TYAUGHTON CREEK (NORTH)	1C40	1950	01	172	584	396	470	470	396	433*	2
PAVILION MOUNTAIN	1C36	1960	04	108	313	232	234	234	232	233*	2
BRALORNE (UPPER)	1C37	1980	01	236	834	708	780	780	708	744*	2
LOWER FRASER											
WOLVERINE CREEK	1D13	300	31	27	92	10	0	160	0	15*	21
SUMMALLO RIVER WEST	3D01C	790	25	130	522B	0	0	114	0	23*	5
BROOKMERE	1C01	980	31	96	296	275	186	399	92	211	52
DISAPPOINTMENT LAKE	1D18P	1040	Not Available			-	1966	1966	1966	1966	1
CALLAGHAN CREEK	3A20	1040	31	269	1064	370	910	1570	192	973	20
DICKSON LAKE	1D16	1070	02	433	1992	738	1556	1556	738	1077	5
DOG MOUNTAIN	3A10	1080	26	315	1474	363	1171	2314	51	1261	52
BEAVER PASS	WA12	1120	31	272	1041	399	823	1849	94	780*	52
KLESILKWA	3D03A	1130	02	137	528	26	121	792	0	303	49
DUFFEY LAKE	1C28	1200	02	178	777	405	506	638	244	484	19
STAVE LAKE	1D08	1210	02	435	1876	916	1630	2421	579	1585	29
WAHLEACH LAKE	1D09	1400	02	217	844	276	465	1270	125	666	29
WAHLEACH LAKE	1D09P	1400	01	-	1457	802	841	871	634	789*	5

NAHATLATCH RIVER	1D10	1520	02	355	1480	1126	1510	2225	749	1426	29
EASY PASS	WA13	1580	Not Available			1118	2464	3094	996	2061	31
CHILLIWACK RIVER	1D17P	1600	01	434	1850	1140	-	1325	1040	1635	4
GREAT BEAR	1D15P	1660	01	-	2300	1669	1982	1982	1375	1607	5
TENQUILLE LAKE	1D06	1680	01	334	1310	1072	1268	1773	605	1167	44
NORTH THOMPSON											
BLUE RIVER	1E01B	670	31	116	425	322	253	392	186	286	14
PASS LAKE	1C04	870	27	47	110	53	8	224	0	58	46
KNOUFF LAKE	1E05	1200	29	61	189	152	158	274	58	147	41
COOK FORKS	1E06	1390	31	289	1033	904	747	1394	530A	924	34
TRANQUILLE LAKE	1C03	1420	27	97	281	193	221	381	116	232	46
BOSS MOUNTAIN MINE	1C20P	1460	01	149	743	694	660	694	660	577	3
BOSS MOUNTAIN MINE	1C20	1500	28	194	702	632	666	782	397	583	29
MOUNT COOK	1E02A	1580	31	361	1381	1468	1247	1500	790A	1243	23
AZURE RIVER	1E08	1620	27	308	1166	1333	1164	1422	712	1034	27
AZURE RIVER	1E08P	1620	01	311	1241	-	-	-	-	-	0
ADAMS RIVER	1E07	1720	02	208	813	706	746	1016	435	710	27
KOSTAL LAKE	1E10P	1770	01	-	1009	980	854	980	618	871	12
PORCUPINE RIDGE	1C02	1830	27	149	490	353	404	668	243	434	35
TROPHY MOUNTAIN	1E03A	1860	30	184	653	578	461	739	366	545	23
NORTH CLEMINA CREEK	1E13	1860	27	232	823	1003	817	1003	560	839*	8
SOUTH THOMPSON											
ANGLEMONT	1F02	1190	26	113	440	326	312	561	142	361	39
ABERDEEN LAKE	1F01A	1310	26	71	212	184	116	259	6	145	58
MONASHEE PASS	2E01	1370	29	133	517	408	338	460	205	346	48

BOULEAU LAKE	2F21	1400	28	135	436	336	384B	564	201	351	26
ADAMS RIVER	1E07	1720	02	208	813	706	746	1016	435	710	27
KIRBYVILLE LAKE	2A25	1750	27	319	1311	1443	1328	1567	701	1126	24
SILVER STAR MOUNTAIN	2F10	1840	28	235	907	773	780	1115	414	726	38
PARK MOUNTAIN	1F03P	1890	01	-	1207	1008	779	1008	666	834	12
ENDERBY	1F04	1900	31	316	1230	1018	906	1316	610	988	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

COLUMBIA

April 1, 1997

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 1997	1996	1995	Max.	Min.	Normal	No. Years Record
UPPER COLUMBIA											
CANOE RIVER	2A01A	910	26	41	121	107	0	262	0	123	56
DOWNIE SLIDE (LOWER)	2A27	980	27	238	970	826	710	915	465	710	20
GLACIER	2A02	1250	28	217	843	875	702	1161	371B	735	60
FIELD	2A03A	1280	01	75	230	222	-	251	8	151	57
SUNWAPTA FALLS	AL11	1400	25	91	245B	274	144	333	89	197*	28
VERMONT CREEK	2A19	1520	30	149	520	508	599	843	202	459	31
AZURE RIVER	1E08	1620	27	308	1166	1333	1164	1422	712	1034	27
AZURE RIVER	1E08P	1620	01	311	1241	-	-	-	-	-	0
DOWNIE SLIDE (UPPER)	2A29	1630	27	372	1420	1656	1638	1656	858	1231	19
KICKING HORSE	2A07	1650	01	134	442	392	-	589	211	357	49
KIRBYVILLE LAKE	2A25	1750	27	319	1311	1443	1328	1567	701	1126	24
MOUNT REVELSTOKE	2A06	1830	04	353	1410	1352	1113	1806	736	1224	48
MOUNT REVELSTOKE	2A06P	1830	01	-	1351	1386	1085	1386	709	1198	4

NORTH CLEMINA CREEK	1E13	1860	27	232	823	1003	817	1003	560	839*	8
FIDELITY MOUNTAIN	2A17	1870	28	364	1429	1572	1099	1951	730	1245	34
BEAVERFOOT	2A11	1890	27	103	301	265	244	460	105	227	37
KEYSTONE CREEK	2A18	1890	27	242	928	825	832	1278	548	817	30
GOLDSTREAM	2A16	1920	27	327	1272	1421	1084	1638	785	1125	33
BUSH RIVER	2A23	1920	27	238	915	1014	973	1331	455	850	30
NIGEL CREEK	AL10	1920	25	158	478B	598	447	700	198	431*	28
MOUNT ABBOT	2A14	1980	30	361	1358	1556	1104	1849	698	1258	38
MOLSON CREEK	2A21P	1980	01	-	1089	-	998	1166	651	1003	14
SUNBEAM LAKE	2A22	2010	27	272	954	1028	880	1384	600	916	30
MIRROR LAKE	AL06	2030	27	142	434	389	325	561	160	300*	57
BOW SUMMIT II	AL07A	2080	27	153	462	527	394	584B	206	364*	18
LOWER COLUMBIA											
FERGUSON	2D02	880	27	187	783	706	643	790	142	576	59
BAIRD	WA02	980	28	109	363	117	216	300	0	143*	37
FARRON	2B02A	1220	26	121	447	344	337	480	167	338	24
MONASHEE PASS	2E01	1370	29	133	517	408	338	460	205	346	48
WHATSHAN (UPPER)	2B05	1480	29	236	928	737	632	909	427	647	39
BARNES CREEK	2B06	1620	29	187	768	627	487	696	321	509	40
BARNES CREEK	2B06P	1620	01	-	773	656	471	656	471	559*	4
ST. LEON CREEK	2B08	1800	Not Measured			1600	1210	1831	818	1201	30
ST. LEON CREEK	2B08P	1800	01	-	1260	-	1165	1185	712	1102	3
KOCH CREEK	2B07	1860	29	246	917	809	901	1034	424	742	38

RECORD MOUNTAIN	2B09	1890	28	260	978	620	848	1091	315	775	22
EAST CREEK	2D08P	2030	01	-	900	1187	1091	1245	466	897	16
EAST KOOTENAY											
KISHENEHN	MT01	1190	28	117	363	201	147	465	36	201*	50
FERNIE EAST	2C07	1250	30	132	468	254	276	605	151	370	45
UPPER ELK RIVER	2C06	1340	29	47	140	60	0	345	0	116	49
SINCLAIR PASS	2C01	1370	26	66	194	160	112	262A	36	134	60
MARBLE CANYON	2C05	1520	27	138	464	489	384	587A	168	352	50
BRUSH CREEK TIMBER	MT03	1520	31	94	312	152	127	434	76	253*	45
SULLIVAN MINE	2C04	1550	30	126	468	405	313	538	137	324	51
WEASEL DIVIDE	MT02	1660	Not Available			899	848	1346	432	834*	57
KIMBERLEY (MIDDLE)V O R	2C12	1680	27	118	394	298	242	462	163	298	28
BANFIELD MOUNTAIN	MT05	1710	Not Available			521	447	919	290	549*	28
MOUNT JOFFRE	2C16	1750	30	141	480	505	402	711	188	376	28
MORRISSEY RIDGE	2C09Q	1800	01	-	1035	812	851	1224	492	751	13
RED MOUNTAIN	MT04	1830	27	173	726	561	437	810	211	483*	58
MOYIE MOUNTAIN	2C10	1940	29	165	660	412	305	747P	170	450	27
HAWKINS LAKE	MT06	1970	Not Available			798	701	1313	399	768*	27
ALLISON PASS	AL01	1980	27	158	622	556	384	823	302	493*	33
WILKINSON SUMMIT (BUSH)	AL03	1980	26	84	213	221	173	460	112	221*	33
THUNDER CREEK	2C17	2010	30	124	380	334	262	475	171	279	27
FLOE LAKE	2C14	2090	30	245	924	897	793	1242	411	762	27

FLOE LAKE	2C14P	2090	01	-	840	795	-	795	360	674	2
KIMBERLEY (UPPER) V O R	2C11	2140	27	178	618	616	462	798	234	488	28
HIGHWOOD SUMMIT (BUSH)	AL02	2210	02	147	465	526	353	681	244	397*	27
MOUNT ASSINIBOINE	2C15	2230	30	186	630	701	565	816	295	530	28
SUNSHINE VILLAGE	AL05	2230	03	199	693	744	597	996	340	612*	30
WEST KOOTENAY											
DUNCAN LAKE NO. 2	2D07A	650	30	61	223	178	33	178	0	81*	6
FERGUSON	2D02	880	27	187	783	706	643	790	142	576	59
NELSON	2D04	930	01	150	600	332	411	622	137	380	59
SANDON	2D03	1070	30	111	450	401	260	585	71	352	58
CHAR CREEK	2D06	1310	30	204	821	513	613	940	302	584	31
SMITH CREEK	ID01	1460	Not Available			960	1077	1791	587	1116	56
BUNCHGRASS MEADOW	WA01	1520	31	277	1107	561	678	1173	340	735*	56
GRAY CREEK (LOWER)	2D05	1550	27	166	628	440	444	688	290	467	49
ARROW CREEK	2D11	1620	29	234	1005	800	779	901	474	743	19
KOCH CREEK	2B07	1860	29	246	917	809	901	1034	424	742	38
MOUNT TEMPLEMAN	2D09	1860	30	325	1260	1259	1127	1608	688	1057	28
GRAY CREEK (UPPER)	2D10	1910	27	235	938	830	752	1123	524	793	28
HARLOW CREEK	2D12	1920	Not Measured			1131	768	1261	622	923*	9
MEADOW MOUNTAIN	2D13	1990	Not Available			1128	961	1128	586	878*	4
EAST CREEK	2D08P	2030	01	-	900	1187	1091	1245	466	897	16
KETTLE											

TRAPPING CREEK (LOWER)	2E05	930	30	44	124	114	42	218	0	80	31
FARRON	2B02A	1220	26	121	447	344	337	480	167	338	24
GOAT CREEK	WA04	1220	28	46	150	53	107	274	0	110*	33
CARMI	2E02	1250	30	62	200	146	146	290	14	150	34
TRAPPING CREEK (UPPER)	2E04A	1350	29	88	286	150	152	252	26	210	13
MONASHEE PASS	2E01	1370	29	133	517	408	338	460	205	346	48
SUMMIT G.S.	WA05	1400	28	104	305	173	226	338	23	202*	34
BIG WHITE MOUNTAIN	2E03	1680	29	184	658	530	592	762	358	479	31
BLUEJOINT MOUNTAIN	2E06	2040	29	252	1040	-	949	949	378	727	19
OKANAGAN											
SUMMERLAND RESERVOIR	2F02	1280	27	103	339	256	244	389	96	230	60
MC CULLOCH	2F03	1280	27	70	206	146	140A	249	38	159	59
ABERDEEN LAKE	1F01A	1310	26	71	212	184	116	259	6	145	58
OYAMA LAKE	2F19	1340	30	76	255	218	174	249	61	162	26
POSTILL LAKE	2F07	1370	27	89	286	261	235	348	109	220	46
BOULEAU LAKE	2F21	1400	28	135	436	336	384B	564	201	351	26
VASEUX CREEK	2F20	1400	27	61	186	148	154	239	82	160	26
TROUT CREEK	2F01	1430	29	85	260	232	178	396	52	175	60
ESPERON CR (MIDDLE)	2F14	1430	29	134	460	368	414	607	224	362	29
BRENDA MINE	2F18	1460	25	123	398B	334	328	531	190	325	28
BRENDA MINE	2F18P	1460	01	-	497	469	388	469	227	356	4
ISLAHT LAKE	2F24	1480	26	129	460	376	462	462	222	341	14
GREYBACK RESERVOIR	2F08	1550	26	100	326	268	256	351	114	228	43

ESPERON CR (UPPER)	2F13	1650	29	151	536	390	478	805	270	432	28
ISINTOK LAKE	2F11	1680	26	76	203	207	195	424	66	181	32
MACDONALD LAKE	2F23	1740	25	161	554B	464	616	616	257	441	20
MUTTON CREEK NO. 1	WA07	1740	31	122	444	312	546	721	79	338*	56
MISSION CREEK	2F05	1780	26	181	655	475	-	757	302	509	57
MISSION CREEK	2F05P	1780	Not Measured			388	460	683	278	468	26
GRAYSTOKE LAKE	2F04	1810	26	129	456	330	354	828	206	412	27
MOUNT KOBAU	2F12	1810	28	112	375	311	449	602	105	322	31
WHITEROCKS MOUNTAIN	2F09	1830	01	177	638	500	649	1021	323	584	42
SILVER STAR MOUNTAIN	2F10	1840	28	235	907	773	780	1115	414	726	38
SIMILKAMEEN											
BROOKMERE	1C01	980	31	96	296	275	186	399	92	211	52
FREEZEOUT CREEK TRAIL	WA11	1070	02	130	508	122	236	665	8	302*	52
LIGHTNING LAKE	3D02	1220	01	131	462	334	284	622	140	315	49
HAMILTON HILL	2G06	1490	02	130	466	363	290	851	164	373	37
MISSEZULA MOUNTAIN	2G05	1550	01	95	304	252	255	516B	104	235	36
ISINTOK LAKE	2F11	1680	26	76	203	207	195	424	66	181	32
LOST HORSE MOUNTAIN	2G04	1920	02	94	262	256	252	533	146E	235	34
BLACKWALL PEAK	2G03P	1940	01	-	1080	863	839	1494	400	841	29
HARTS PASS	WA09	1980	01	333	1201	1118	1191	1725	541	1084	54

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* - PERIOD OF RECORD AVERAGE

COASTAL

April 1, 1997

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 1997	1996	1995	Max.	Min.	Normal	No. Years Record
SOUTH COASTAL											
PALISADE LAKE	3A09	880	01	409	1700	447	1367	2845	285	1502	50
PALISADE LAKE	3A09P	880	Not Available			-	678	678	678	678*	1
POWELL RIVER (LOWER)	3A05	910	05	234	992	85	-	1466	85	771	38
CHAPMAN CREEK	3A26	1022	01	423	1648	704	1660	1660	704	1141	4
POWELL RIVER (UPPER)	3A02	1040	05	311	1296	511	-	1674	467	1023	35
CALLAGHAN CREEK	3A20	1040	31	269	1064	370	910	1570	192	973	20
EDWARDS LAKE	3A27	1070	01	332	1286	398	1182	1182	398	792*	4
DOG MOUNTAIN	3A10	1080	26	315	1474	363	1171	2314	51	1261	52
GROUSE MOUNTAIN	3A01	1100	27	391	1714	544	1044	2497	44	1263	61
ORCHID LAKE	3A19	1190	01	521	2150	1111	1935	3353	980	1992	25
ORCHID LAKE	3A19P	1190	Not Available			-	1524	2614	1241	1906	12

UPPER SQUAMISH RIVER	3A25P	1340	01	437	1853	1208	1759	1819	1144	1620	7
TIEDEMANN GLACIER	3A17P	1400	01	-	1311	1692	1411	1692	794	1342	4
DIAMOND HEAD	3A21	1420	03	399	1750	995	1525	1923	780	1454	19
NOSTETUKO RIVER	3A22P	1500	01	-	579	738	823	823	359	585*	7
UPPER MOSELY CREEK	3A24P	1650	01	-	201	320	299	567	158	299	8
TATLAYOKO LAKE	3A13	1710	02	84	225	338	302	563	74	252	45
VANCOUVER ISLAND											
ELK RIVER	3B04	270	01	No Snow		0	0	607	0	126	35
WOLF RIVER (LOWER)	3B19	640	01	125	516	0	432	945	0	403	25
TENNENT LAKE	3B22	950	01	357	1390	-	-	1000	432	954	11
UPPER THELWOOD LAKE	3B10	980	01	437	1578	-	1932	2774	492	1591	37
MARGARET LAKE	3B21	1040	28	481	2058	-	2484	2570	540	1874	20
WOLF RIVER (MIDDLE)	3B18	1070	01	225	730	204	956	1290	0	676	25
FORBIDDEN PLATEAU	3B01	1130	01	394	1550	748	2073	2619	413	1639	42
JUMP CREEK	3B23P	1160	01	336	1643	401	-	401	401	401*	1
NEWCASTLE RIDGE	3B14	1170	Not Measured			854	2048	2276	379	1590	34
MOUNT COKELY	3B02A	1190	06	205	824	368	940	1342	331	873	17
SPROAT LAKE	3B20	1220	28	420	1661	-	2234	2265	462	1653	20

SNO-BIRD LAKE	3B16	1400	07	347	1590	699	1469	2245	408	1364	30
WOLF RIVER (UPPER)	3B17P	1490	01	-	1335	908	1852	1852	796	1474	9
NORTH COASTAL											
WEDEENE RIVER SOUTH	3C07	300	01	143	577	293	535	535	36	323	13
TAHTSA LAKE	1B02	1300	01	357	1378	1264	1283	1554	775	1117	44
TAHTSA LAKE	1B02P	1300	01	-	1551	-	1304	1500	860	1213	4
SKAGIT											
SUMALLO RIVER WEST	3D01C	790	25	130	522B	0	0	114	0	23*	5
FREEZEOUT CREEK TRAIL	WA11	1070	02	130	508	122	236	665	8	302*	52
BEAVER PASS	WA12	1120	31	272	1041	399	823	1849	94	780*	52
KLESILKWA	3D03A	1130	02	137	528	26	121	792	0	303	49
LIGHTNING LAKE	3D02	1220	01	131	462	334	284	622	140	315	49
HARTS PASS	WA09	1980	01	333	1201	1118	1191	1725	541	1084	54

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NORTH

April 1, 1997

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm) 1997	1996	1995	Max.	Min.	Normal	No. Years Record
PEACE											
FORT ST. JOHN A	4A25	690	30	66	196	154	85	210	0	111	23
MACKENZIE A	4A19	700	29	95	300	268	232	361	0	223	25
PACIFIC LAKE	1A11	770	01	225	836	478	559	879	290	623	34
BULLHEAD MOUNTAIN	4A28	790	01	75	168	140	-	140	0	118	12
MC LEOD LAKE	4A01	980	27	117	388	240	260	360	60	219	37
WARE (LOWER)	4A04	980	05	84	199	267	148	316	112B	183	34
PHILIP LAKE	4A13	980	04	144	423	312	262	419	180	288	34
AIKEN LAKE	4A30P	1040	01	-	262	360	220	371	206	280*	10
TUTIZZI LAKE	4A06	1070	04	98	278	340	255	406	166	249	34
TSAYDAYCHI LAKE	4A12	1160	04	166	510	458	351	584	234	392	34
PINK MOUNTAIN	4A14	1170	07	68	161	174	54	175	20	87	33
KAZA lAKE	1A12	1190	04	137	389	442	283	453	226	330	32
PULPIT LAKE	4A09	1310	05	144	410	447	394	556	297	400	34
PULPIT LAKE	4A09P	1310	01	-	421	500	390	500	390	395	6
FREDRICKSON LAKE	4A10	1310	04	94	237	321	228	351	163B	249	34

PINE PASS	4A02P	1400	01	-	1116	-	1149	1530	1144	1120	5
TRYGVE LAKE	4A11	1400	04	125	331	421	348	493	257	357	34
SIKANNI LAKE	4C01	1400	05	115	273	354	238	380	166	264	34
PINE PASS	4A02	1430	06	356	1351	1252	1113	1562	668	1129	35
MORFEE MOUNTAIN	4A16	1450	05	276	1115	1059	794	1158	555	857	29
LADY LAURIER LAKE	4A07	1460	05	174	485	659	451	737	342	493	33
MOUNT SHEBA	4A18	1490	01	334	1140	783	824	1146	495	815	28
GERMANSEN (UPPER)	4A05	1500	04	152	429	361	320	523	200	346	35
MOUNT STEARNS	4A21	1500	05	77	142	239	122	239	76	161	22
JOHANSON LAKE	4B02	1540	04	111	284	401	281	417	173	286	34
MONKMAN CREEK	4A20	1550	01	220	730A	-	557	1067	347	626	19
WARE (UPPER)	4A03	1570	05	101	232	390	240	390	157	253	34
BULLMOOSE CREEK	4A31	1570	27	194	626	654	524	698	312	536*	9
KWADACHA RIVER	4A27P	1620	01	-	306	387	240	446	240	332	13
SKEENA/NASS											
TERRACE A	4B13A	180	26	56	228	38	158	333	0	65*	17
BEAR PASS	4B11A	460	27	157	673	591	532	900	492	773	13
NINGUNSAW PASS	4B10	690	04	151	480	428	398	620	267	422	22
GRANDUC MINE	4B12	790	03	472	1790	1625	1248	1834	1152	1447	21
MCKENDRICK CREEK	4B07	1050	26	131	398	323	228	427	183	297	29
TACHEK CREEK	4B06	1140	26	118	362	282	227	345	112	218	29

KAZA LAKE	1A12	1190	04	137	389	442	283	453	226	330	32
LU LAKE	4B15	1300	01	149	484	360	300	396	170	310	20
KIDPRICE LAKE	4B01	1370	01	296	1095	969	925	1247	622	888	43
TRYGVE LAKE	4A11	1400	04	125	331	421	348	493	257	357	34
EQUITY MINE	4B14	1420	01	186	640	452	432	464	258	357	20
CHAPMAN LAKE	4B04	1460	26	191	641	601	365	762	315	461	32
SHEDIN CREEK	4B16P	1480	01	256	896	1039	-	1039	1039	1039	1
HUDSON BAY MTN.	4B03A	1480	27	206	770	520	432	846	356	515	25
MOUNT CRONIN	4B08	1480	26	217	725	613	443	1097	433	624	28
JOHANSON LAKE	4B02	1540	04	111	284	401	281	417	173	286	34
LIARD											
FORT NELSON A	4C05	380	28	56	104	186	102	198	36	105	31
WATSON LAKE A	YK01	700	03	66	116	185	124	229	71	124*	30
FRANCES RIVER	YK02	730	26	76	131	174	138	302	76	151*	20
DEASE LAKE	4C03	820	28	61	147	187	79A	259	66	144	32
BLUFF CREEK	4C11P	1040	Not Available			344	140	344	140	254	4
SUMMIT LAKE	4C02	1280	Not Available			240	70	240	0	122	31
DEADWOOD RIVER	4C09P	1300	01	-	113	229	-	283	167	226*	3
CASSIAR	4C04	1390	Not Available			318	280	582	163	327	32
SIKANNI LAKE	4C01	1400	05	115	273	354	238	380	166	264	34
STIKINE/ TAKU											
SPEEL RIVER	AK03	80	30	218	691	475	879	1402	300	796*	28

FORREST-KERR CREEK	4D08P	560	01	-	509	588	552	671	552	595*	4
TELEGRAPH CREEK	4D01	580	29	26	58	159	71B	343	37	155	22
NINGUNSAW PASS	4B10	690	04	151	480	428	398	620	267	422	22
DEASE LAKE	4C03	820	28	61	147	187	79A	259	66	144	32
ISKUT	4D02	1000	04	51	100	130	50	167	0	120	22
KINASKAN LAKE	4D11P	1020	01	-	277	351	317	570	317	368	6
TUMEKA CREEK	4D10P	1220	01	-	457	622	533	869	533	638	7
WADE LAKE	4D14P	1370	Not Measured			421	232	527	232	406	6
UPPER STIKINE	4D13P	1450	01	-	402	512	439	689	433	474	7
YUKON											
ATLIN LAKE	4E02A	730	28	52	101	130	125	197	50	126*	13
LOG CABIN	4E01	880	01	116	301	354	363	596	213	331	37
PINE LK AIRSTRIP	YK03	1010	28	89	191	184	169	351	122	223*	21
MONTANA MTN.	YK05	1020	02	71	160	-	-	185	84	137*	16
TAGISH	YK04	1080	26	76	142	167B	160	177	73	138*	20

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