



## **SNOWPACK and WATER SUPPLY OUTLOOK**

**in**

### **BRITISH COLUMBIA**

**May 1, 1997**

The May 1 snow survey has been conducted throughout the province with a total of 191 snow courses being measured. These readings, together with data from 44 snow pillows, 21 snow courses from adjacent jurisdictions and weather and flow data provided by Environment Canada have been used in making the following report.

#### **Snowpack**

Snowpack accumulations and depletions were generally close to normal for April with no warm spells to melt off the higher elevation snowpack. As a result the snowpack remains above to well above normal throughout the great majority of the province.

#### **Weather**

April was generally cool and unsettled. Mean temperatures were mostly within 2 degrees of normal, but there were no warm spells. Precipitation during the month was above normal in almost all areas with the accumulated totals since November about 30% above normal in many areas in the southern interior of the province.

#### **Outlook**

Forecast runoff volumes for the spring (which assume normal weather for the remainder of the forecast period) are given on the following pages and are generally 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 or there are substantial rains. This will depend on the weather patterns during the next four to six weeks. Areas where the potential for flooding is the greatest remain the Nicola, Fraser canyon, South Thompson, Okanagan, Kettle, lower Columbia, upper Columbia upstream of Golden, Kootenays, Nechako, Babine and Bulkley basins.

### **UPPER FRASER AND NECHAKO**

Above normal precipitation combined with near normal temperatures has resulted in close to normal snowpack accumulations and depletions during the month. One area where there has

been an improvement is in the Nechako basin where the snowpack is now estimated to be 16% above normal compared with 28% a month ago. The forecast volume inflow for the Nechako reservoir, however, remains high at 135% of normal and flows throughout the Nechako River system are likely to remain above normal for some time.

The snowpack in the upper Fraser is about 10% above normal and the forecast volume runoff for the period May through September at the gauge at Marguerite is for 10% above normal. This is unlikely to cause damaging flooding unless the snowmelt is very rapid or there is unusual rainfall.

Considerable inflow from the Nechako, Stuart and Salmon Rivers has resulted in much higher flows than normal in the Fraser River at Marguerite where the flow during April was 54% above normal.

### **MIDDLE AND LOWER FRASER**

The snowpack in the middle and lower Fraser basins, expressed as a percentage of normal, has increased slightly during April as a result of the relatively cool, unsettled weather. Unusually large snowpacks still exist in the Nicola River basin and Nicola Lake is being maintained at a low level to provide some storage as the runoff peaks in the next few weeks.

In the lower Fraser, long-term snow courses are well below previously recorded maximum levels. However, the snowpack is estimated to be 19% above normal and a rapid melt could cause steep snowmelt-fed creeks and rivers to rise very rapidly.

Flows in the Fraser River at Hope have been unusually high during April at 154% of normal, largely due to the melting of low-elevation snow in the northern plateau areas around Prince George. The volume flow forecast for the period May through September for the Fraser River at Hope is for 115% of normal. The flow in the main stem of the Fraser is not expected to reach damaging flood levels unless there are very abnormal weather conditions.

### **NORTH AND SOUTH THOMPSON**

Snow conditions throughout the Thompson River basin remained relatively unchanged during April. The regional indices of snow water equivalent are for 113% and 124% of normal for the North and South Thompson basins, respectively.

Flows in the Thompson River near Spences Bridge during April were 40% greater than normal, largely as a result of low elevation snow melting. The volume runoff forecast for this location for the May through September period is for 123% of normal. Whether peak flows reach damaging levels will largely depend on the weather patterns during the next few weeks. Any prolonged warm weather will cause rivers and lakes throughout the region to rise quite rapidly and steep snow-melt fed creeks could reach flood stage quickly. With snowpacks in the South Thompson basin well above normal for this time of year there is an increased danger of high levels occurring in this area.

## **UPPER AND LOWER COLUMBIA**

The relatively cool, unsettled weather during April resulted in little overall change in the Columbia basin snowpack. The snowpack north of a line from Revelstoke to Golden generally remains close to, or slightly above, normal. One exception is the Downie Slide area where both snowcourses (2A27 and 2A29) report 20-year record high water equivalents. South of this line the snowpack is well above normal for this sampling period.

The May through September volume runoff forecast for the Columbia at Donald is for 106% of normal while that for the Columbia at Birchbank as it crosses the border is for 118% of normal. While the main stem is largely controlled by Hydro dams, the tributary creeks are uncontrolled and any warm weather could cause a rapid rise in levels as the ground in most areas is more saturated than normal.

## **EAST AND WEST KOOTENAY**

The snowpack in the Kootenay River basin remains well above normal with the regional snowpack index now estimated to be 35% greater than normal - an increase of 8% from a month ago. However, most snow courses are below previously recorded maximum readings for this date.

April temperatures were a little below normal in the area and this is reflected in the flow of the Kootenay River at Fort Steele which was 94% of normal for April. The May through September volume forecast at this location is for 117% of normal.

Any warm weather in the next few weeks will bring water levels in steep snowmelt-fed streams up quite rapidly. Residents in flood-prone areas should take whatever preventative measures they can. A prolonged warm spell and/or excessive rainfall could bring main stem rivers to flood stage.

## **OKANAGAN, SIMILKAMEEN AND KETTLE**

Greater than normal precipitation during April and the absence of any warm weather has resulted in the regional snow water equivalent index increasing slightly over the past month. The index is estimated to be 131% of normal in the Okanagan-Kettle and 127% of normal in the Similkameen.

Seasonal volume forecasts for the area, which assume normal weather conditions for the forecast period, are all for well above normal runoff. For example, the April through July forecast for the Similkameen at Nighthawk is for 145% of normal. If the runoff is rapid and early, tributary creeks may reach flood stage quite quickly, but warm weather would have to last for several days for the larger rivers to reach damaging flood levels.

Inflow to Okanagan Lake during April was almost three times greater than normal and the lake rose 6 cm during the month despite high outflows through the dam at Penticton. These high flows can be expected to continue during May. It is still anticipated that there is sufficient

storage to contain the runoff if weather patterns are normal for the rest of the runoff period. Runoff into Kalamalka Lake is expected to keep water levels in that area high for most of the next two months.

## **SOUTH COASTAL AND VANCOUVER ISLAND**

May 1 snow surveys show that the overall snowpack in the lower mainland/Howe Sound area continues to be slightly above normal - most snow courses have lost more snow than normal since April 1. Up the coast in the Homathko River drainage, water equivalents are below normal, though these snow courses have not lost much water content during April. Precipitation measured at valley-bottom weather stations for April was above normal, keeping the seasonal totals since November very high.

On Vancouver Island, most snow courses have slightly above normal water content. Depletion or increases of water equivalent has been quite variable among the Island snow courses that were sampled May 1. Precipitation was high for April, especially on the south Island, and the seasonal total is 14% above normal.

April mean monthly temperatures were near normal for the South Coast and Vancouver Island.

Monthly runoff into Upper Campbell Lake was 88% of normal for April, and the seasonal runoff forecast for May through July is 100% of normal, assuming normal weather conditions during this period.

## **NORTHEASTERN**

The May 1 snowpack in the Peace River basin is quite variable, but overall appears to be well above normal. In the Liard River basin, the few snow courses that were sampled May 1 suggest a below normal snowpack.

Very few weather stations are available in northeastern British Columbia, but April precipitation is estimated to be just above normal for the Peace, and well below normal for the Liard. April mean temperatures were about 0.5 oC below normal for northeastern B. C.

April inflow to Williston Lake continued to be well above normal. Assuming normal weather, seasonal runoff for May through September is expected to be 115% of normal.

## **NORTHWESTERN**

May 1 snow surveys continue to show a heavy snowpack in the Skeena basin near Smithers. In the Nass drainage, the indication is of a near normal snowpack. Farther north in the Stikine, Taku, and Yukon River drainages, the snowpack appears to be just below normal.

Precipitation in the northwest was highly variable for April, and the November-April total is estimated to be just above normal. Mean temperatures for April were 1-2 oC above normal in the northwest.

Monthly flow for April was very high for the Skeena River, and the volume runoff for May through September is 109% of normal assuming typical weather during the period.

# COLUMBIA

*May 1, 1997*

## Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					1997	1996	1995	Max.	Min.	Normal	
<b>UPPER COLUMBIA</b>											
DOWNIE SLIDE (LOWER)	2A27	980	01	193	910	714	474	900	0	638	20
GLACIER	2A02	1250	28	180	807	792	566	1247	320	719	51
FIELD	2A03A	1280	01	36	119	28	24	178	0	28	44
SUNWAPTA FALLS	AL11	1400	30	49	172	172	114	389	0	151*	26
VERMONT CREEK	2A19	1520	02	114	477	448	501	1026	140	447	31
AZURE RIVER	1E08	1620	25	300	1329	1414	1196	1491	766	1120	27
AZURE RIVER	1E08P	1620	01	273	1459	-	-	-	-	-	0
DOWNIE SLIDE (UPPER)	2A29	1630	01	374	1744	-	1646	1646	886	1314	18
KICKING HORSE	2A07	1650	01	113	406	357	352	589	63	324	50
KIRBYVILLE LAKE	2A25	1750	01	297	1422	1597	1386	1793	770	1233	25
MOUNT REVELSTOKE	2A06	1830	30	304	1398	1455	1163	1961	874	1308	50
MOUNT REVELSTOKE	2A06P	1830	01	-	1306	1502	1135	1502	874	1324	4

NORTH CLEMINA CREEK	1E13	1860	25	233	879	1090	863	1115	579	892*	8
FIDELITY MOUNTAIN	2A17	1870	28	340	1514	1650	1177	1986	817	1347	34
BEAVERFOOT	2A11	1890	02	82	300	264	239	495	66A	225	36
KEYSTONE CREEK	2A18	1890	01	222	974	948	869	1372	565	879	31
GOLDSTREAM	2A16	1920	01	306	1367	1488	1175	1781	850	1204	34
BUSH RIVER	2A23	1920	01	224	945	-	1000	1392	538	892	29
NIGEL CREEK	AL10	1920	30	127	445	601	467	752	207	429*	27
MOUNT ABBOT	2A14	1980	29	338	1506	1585	1274	1811	853	1383	37
MOLSON CREEK	2A21P	1980	01	-	1156	-	1083	1230	746	1093	14
SUNBEAM LAKE	2A22	2010	01	240	1021	1187	901	1562	637	990	30
BOW SUMMIT II	AL07A	2080	30	123	450	503	446	597	201	383*	17
<b>LOWER COLUMBIA</b>											
FERGUSON	2D02	880	29	141	652	594	480	757	160	430	51
FARRON	2B02A	1220	28	82	355	208	261	406	23	235	24
MONASHEE PASS	2E01	1370	28	101	442	330	286	505	67	305	39
WHATSHAN (UPPER)	2B05	1480	28	194	898	677	605	983	255	587	36
BARNES CREEK	2B06	1620	28	155	714	574	482	742	211	499	36
BARNES CREEK	2B06P	1620	01	-	818	679	463	679	463	543*	4
ST. LEON CREEK	2B08	1800	28	330	1485	1557	1301	1974	914	1307	30
ST. LEON CREEK	2B08P	1800	01	-	1309	-	1227	1227	861	1193	3
KOCH CREEK	2B07	1860	28	224	995	899	930	1201	391	808	36
RECORD MOUNTAIN	2B09	1890	29	244	1071	713	1011	1194	157	823	22
EAST CREEK	2D08P	2030	01	-	983	1236	1237	1330	568	907	15

<b>EAST KOOTENAY</b>											
FERNIE EAST	2C07	1250	26	95	374	101	138	541	0	230	45
UPPER ELK RIVER	2C06	1340	28	No Snow		-	-	140	0	24*	32
SINCLAIR PASS	2C01	1370	29	36	127	79	51	246	0	59	51
MARBLE CANYON	2C05	1520	01	107	407	422	349	612	102	296	50
BRUSH CREEK TIMBER	MT03	1520	01	48	173	33	10	417	0	153*	46
SULLIVAN MINE	2C04	1550	29	96	408	345	250	518	0	262	51
WEASEL DIVIDE	MT02	1660	30	239	1201	1006	937	1422	348	840*	57
KIMBERLEY (MIDDLE) V O R	2C12	1680	29	93	362	267	208	483	0	238	28
MOUNT JOFFRE	2C16	1750	02	148	537	543	416	772	180	370	28
MORRISSEY RIDGE	2C09Q	1800	Not Available			906	896	1345	317	784	13
RED MOUNTAIN	MT04	1830	28	150	678	526	452	841	0	442*	59
MOYIE MOUNTAIN	2C10	1940	27	143	650	462	344	772	0	460	26
ALLISON PASS	AL01	1980	29	143	612	607	455	838	287	474*	10
WILKINSON SUMMIT (BUSH)	AL03	1980	29	68	173	198	279	279	23	182*	8
THUNDER CREEK	2C17	2010	02	114	390	364	342	556	163	297	28
FLOE LAKE	2C14	2090	02	236	1010	1074	902	1369	511	820	28
FLOE LAKE	2C14P	2090	01	-	934	934	-	934	481	726	2
KIMBERLEY (UPPER) V O R	2C11	2140	29	173	674	583	539	935	188	538	28
HIGHWOOD SUMMIT (BUSH)	AL02	2210	29	150	513	544	495	726	221	462*	32



MOUNT ASSINIBOINE	2C15	2230	02	177	684	770	658	930	366	586	28
SUNSHINE VILLAGE	AL05	2230	01	192	716	768	664	1092	338	644*	30
<b>WEST KOOTENAY</b>											
DUNCAN LAKE NO. 2	2D07A	650	25	18	42	0	-	0	0	-	1
FERGUSON	2D02	880	29	141	652	594	480	757	160	430	51
NELSON	2D04	930	25	115	510	146	299	414	0	171	41
SANDON	2D03	1070	01	46	237	64	0	399	0	103	48
CHAR CREEK	2D06	1310	30	167	758	437	590	838	79	484	30
SMITH CREEK	ID01	1460	01	302	1585	782	1021	1920	119	1033	55
BUNCHGRASS MEADOW	WA01	1520	Not Available			559	-	1219	165	665*	55
GRAY CREEK (LOWER)	2D05	1550	30	149	645	432	487	726	229	471	48
ARROW CREEK	2D11	1620	27	194	988	-	-	925	524	697	6
KOCH CREEK	2B07	1860	28	224	995	899	930	1201	391	808	36
MOUNT TEMPLEMAN	2D09	1860	Not Measured			1463	1162	1679	785	1167	30
GRAY CREEK (UPPER)	2D10	1910	30	227	1194	914	813	1300	518	856	28
HARLOW CREEK	2D12	1920	Not Available			1077	-	1293	746	935*	7
MEADOW MOUNTAIN	2D13	1990	Not Measured			1113	-	1113	667	879*	3
EAST CREEK	2D08P	2030	01	-	983	1236	1237	1330	568	907	15
<b>KETTLE</b>											
TRAPPING CREEK (LOWER)	2E05	930	26	No Snow		0	0	0	0	-	25
FARRON	2B02A	1220	28	82	355	208	261	406	23	235	24
CARMI	2E02	1250	26	19	74	6	28	173	0	36	33

TRAPPING CREEK (UPPER)	2E04A	1350	27	32	116	4	10	46	0	8*	13
MONASHEE PASS	2E01	1370	28	101	442	330	286	505	67	305	39
BIG WHITE MOUNTAIN	2E03	1680	27	148	648	510	596	762	237	474	31
BLUEJOINT MOUNTAIN	2E06	2040	28	226	1002	787	929	1186	287	784	21
<b>OKANAGAN</b>											
SUMMERLAND RESERVOIR	2F02	1280	28	57	220	127	134	368	0	141	32
MC CULLOCH	2F03	1280	29	2	7	0	4	188	0	51	51
ABERDEEN LAKE	1F01A	1310	25	20	77	0	0	144	0	37	43
OYAMA LAKE	2F19	1340	29	32	109	83	149	185	0	66	27
POSTILL LAKE	2F07	1370	30	45	182	184	190	282	0	144	45
VASEUX CREEK	2F20	1400	28	24	90	6A	68	192	0	68	26
BOULEAU LAKE	2F21	1400	27	99	384	268	340	488	95	320	25
TROUT CREEK	2F01	1430	29	35	118	68	57	386	0	110	49
ESPERON CR (MIDDLE)	2F14	1430	30	82	336	286	360	551	0	252	27
BRENDA MINE	2F18	1460	29	85	344	272	342	526	0	234	28
BRENDA MINE	2F18P	1460	01	-	273	235	240	279	0	179	4
ISLAHT LAKE	2F24	1480	29	95	377	285	399	399	66	271	15
GREYBACK RESERVOIR	2F08	1550	28	72	247	208	243E	386	0	190	25
ESPERON CR (UPPER)	2F13	1650	30	121	498	350	466	805	119	385	27
ISINTOK LAKE	2F11	1680	30	56	169	125	188E	437	0	142	32
MACDONALD LAKE	2F23	1740	29	144	548	465	622	622	198	441	20
MISSION CREEK	2F05	1780	30	172	701	-	-	798	242	536	44

MISSION CREEK	2F05P	1780	Not Measured			451	507	726	140	468	26
GRAYSTOKE LAKE	2F04	1810	29	131	504	328	380	940	120	431	26
MOUNT KOBAN	2F12	1810	29	122	393	298	480	597	53	333	31
WHITEROCKS MOUNTAIN	2F09	1830	01	149	629	506	648	1013	175	529	26
SILVER STAR MOUNTAIN	2F10	1840	27	211	925	819	847	1135	371	733	38
<b>SIMILKAMEEN</b>											
BROOKMERE	1C01	980	30	64	238	106	74A	419	0	117	50
FREEZEOUT CREEK TRAIL	WA11	1070	29	91	348	15	112	658	0	180*	45
LIGHTNING LAKE	3D02	1220	30	104	429	287	220	599	24	255	25
HAMILTON HILL	2G06	1490	28	101	399	232	159	838	0	302	37
MISSEZULA MOUNTAIN	2G05	1550	27	56	202	112	142	323	0	165	32
ISINTOK LAKE	2F11	1680	30	56	169	125	188E	437	0	142	32
LOST HORSE MOUNTAIN	2G04	1920	30	97	326	284	-	554	64	248	36
BLACKWALL PEAK	2G03P	1940	01	-	1121	926	845	1566	375	886	29
HARTS PASS	WA09	1980	29	318	1425	1219	1255	1847	531	1153	53

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

# COASTAL

*May 1, 1997*

## Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					1997	1996	1995	Max.	Min.	Normal	
<b>SOUTH COASTAL</b>											
PALISADE LAKE	3A09	880	02	306	1533	-	1424	2852	0	1595	44
PALISADE LAKE	3A09P	880	Not Measured			-	-	-	-	-	0
CHAPMAN CREEK	3A26	1022	01	328	1506	756	1710	1710	756	1147	4
CALLAGHAN CREEK	3A20	1040	27	252	990	320	828	1565	256	933	19
EDWARDS LAKE	3A27	1070	01	249	1176	400	1180	1180	400	758*	4
DOG MOUNTAIN	3A10	1080	30	290	1475	404	1190	1458	122	1384	13
GROUSE MOUNTAIN	3A01	1100	30	325	1610	638	1090	2426	120	1303	47
ORCHID LAKE	3A19	1190	02	417	1985	-	1990	3721	900	2210	24
ORCHID LAKE	3A19P	1190	Not Measured			-	1537	2889	1058	2000	13
UPPER SQUAMISH RIVER	3A25P	1340	01	358	1766	1324	1886	1886	1153	1647	7
TIEDEMANN GLACIER	3A17P	1400	01	-	1509	1750	1484	1750	921	1398	4

DIAMOND HEAD	3A21	1420	30	360	1845	1186	1529	1982	935B	1532	20
NOSTETUKO RIVER	3A22P	1500	01	-	549	555	780	780	207	487*	7
UPPER MOSELY CREEK	3A24P	1650	01	-	226	286	308	494	158	240	8
TATLAYOKO LAKE	3A13	1710	02	73	215	273	296	544	69	234	33
<b>VANCOUVER ISLAND</b>											
WOLF RIVER (LOWER)	3B19	640	01	47	196	0	0	798	0	224	27
TENNENT LAKE	3B22	950	03	265	1238	384	1010	1050	0	998	12
UPPER THELWOOD LAKE	3B10	980	01	352	1822	734	1786	2766	644	1672	36
MARGARET LAKE	3B21	1040	29	432	2160	1330	2740	2740	632	2013	21
WOLF RIVER (MIDDLE)	3B18	1070	01	150	634	122	846	1229	0	611	26
FORBIDDEN PLATEAU	3B01	1130	01	354	1591	832	2211	2728	448	1688	40
JUMP CREEK	3B23P	1160	01	280	1545	360	-	360	360	360*	1
NEWCASTLE RIDGE	3B14	1170	Not Measured			878	-	2362	570	1623	34
MOUNT COKELY	3B02A	1190	04	216	960	450	998	1494	274	912	17
SPROAT LAKE	3B20	1220	Not Available			1060	2283	2415	613	1746	21
SNO-BIRD LAKE	3B16	1400	29	326	1655	665	1548	2367	294	1395	30
WOLF RIVER (UPPER)	3B17P	1490	01	-	1420	1061	1888	1888	701	1388	9
<b>NORTH COASTAL</b>											

<b>WEDEENE RIVER SOUTH</b>	3C07	300	29	56	249	25	170	170	0	60*	12
TAHTSA LAKE	1B02	1300	30	298	1424	1286	1446	1770	701	1202	45
TAHTSA LAKE	1B02P	1300	01	-	1658	-	1356	1430	866	1204	4
<b>SKAGIT</b>											
<b>SUMALLO RIVER WEST</b>	3D01C	790	29	71	348	0	0	0	0	-	5
FREEZEOUT CREEK TRAIL	WA11	1070	29	91	348	15	112	658	0	180*	45
BEAVER PASS	WA12	1120	28	229	1074	348	785	1590	135	756*	48
KLESILKWA	3D03A	1130	02	80	379	0	0	752	0	176	24
LIGHTNING LAKE	3D02	1220	30	104	429	287	220	599	24	255	25
HARTS PASS	WA09	1980	29	318	1425	1219	1255	1847	531	1153	53

A - SAMPLING PROBLEMS WERE ENCOUNTERED

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E - ESTIMATED BASED ON AREAL AVERAGE

\* - PERIOD OF RECORD AVERAGE

**NORTH***May 1, 1997***Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					1997	1996	1995	Max.	Min.	Normal	
<b>PEACE</b>											
FORT ST. JOHN A	4A25	690	01	No Snow	0	0	56	0	4*	23	
MACKENZIE A	4A19	700	28	38	138	0	0	242	0	36*	25
PACIFIC LAKE	1A11	770	30	165	735	265	423	950	93	558	32
BULLHEAD MOUNTAIN	4A28	790	01	No Snow	0	-	0	0	0	-	12
MC LEOD LAKE	4A01	980	29	61	238	66	62	267	0	102	37
WARE (LOWER)	4A04	980	02	48	119	172	54	229	0	139	31
PHILIP LAKE	4A13	980	01	89	329	202	209	406	0	228	33
AIKEN LAKE	4A30P	1040	01	-	191	263	120	276	71	169*	10
TUTIZZI LAKE	4A06	1070	01	44	146	193	136	325	0	173	33
TSAYDAYCHI LAKE	4A12	1160	01	124	472	465	357	625	168	381	34
PINK MOUNTAIN	4A14	1170	01	35	95	151	11	151	0	48	33
KAZA LAKE	1A12	1190	01	104	375	412	251	470	201	337	31
PULPIT LAKE	4A09	1310	02	111	314	487	319	560	287	417	32
PULPIT LAKE	4A09P	1310	01	-	387	500	332	500	308	407	6
FREDRICKSON LAKE	4A10	1310	01	70	220	324	231A	358A	138	237	33

PINE PASS	4A02P	1400	01	-	1262	-	1201	1537	1088	1221	5
TRYGVE LAKE	4A11	1400	01	98	339	467	328	495	272	381	33
SIKANNI LAKE	4C01	1400	02	85	240	343	197	360	115	261	33
PINE PASS	4A02	1430	30	311	1365	1474	1189	1732	681	1222	36
MORFEE MOUNTAIN	4A16	1450	30	205	935	939	772	1181	410	830	26
LADY LAURIER LAKE	4A07	1460	02	141	503	686	446	747	305	529	34
MOUNT SHEBA	4A18	1490	30	277	1251	889	904	1227	503	865	28
GERMANSEN (UPPER)	4A05	1500	01	121	410	388	328	597	181	350	35
MOUNT STEARNS	4A21	1500	02	53	140	271	116A	271	0	161	23
JOHANSON LAKE	4B02	1540	01	88	289	418	288	418	143	299	34
MONKMAN CREEK	4A20	1550	30	189	735	-	583	1016	329	649	20
WARE (UPPER)	4A03	1570	02	91	245	402	224	402	141	260	33
BULLMOOSE CREEK	4A31	1570	30	134	592	608A	560	695	294	508*	9
KWADACHA RIVER	4A27P	1620	01	-	325	427	259	476	259	370	11
<b>SKEENA/NASS</b>											
TERRACE A	4B13A	180	01	No Snow		0	-	0	0	-	1
BEAR PASS	4B11A	460	30	113	494	360	460	859	360	637	12
NINGUNSAW PASS	4B10	690	30	67	276	243	140A	547	0	254	21
GRANDUC MINE	4B12	790	Not Measured			1321	1365	2095	1213	1554	16
MCKENDRICK CREEK	4B07	1050	02	88	350	229	179	422	80	254	29
TACHEK CREEK	4B06	1140	29	88	318	234	182	317	69	174	27



KAZA LAKE	1A12	1190	01	104	375	412	251	470	201	337	31
LU LAKE	4B15	1300	30	121	444	356	250	356	180	279	17
KIDPRICE LAKE	4B01	1370	30	246	1173	1094	986	1367	551	919	45
TRYGVE LAKE	4A11	1400	01	98	339	467	328	495	272	381	33
EQUITY MINE	4B14	1420	29	152	620	480	-	480	212	345	19
CHAPMAN LAKE	4B04	1460	02	162	689	657	366	749	308	485	31
HUDSON BAY MTN.	4B03A	1480	01	165	707	598	381	787	363	532	25
MOUNT CRONIN	4B08	1480	02	193	807	723	484	1125	422	670	28
SHEDIN CREEK	4B16P	1480	01	213	1065	1140	-	1140	1140	1140	1
JOHANSON LAKE	4B02	1540	01	88	289	418	288	418	143	299	34
<b>LIARD</b>											
WATSON LAKE A	YK01	700	30	2	4	85	0	145	0	32*	26
FRANCES RIVER	YK02	730	30	19	44	85	12	237	0	72*	20
DEASE LAKE	4C03	820	Not Available			80	0	178	0	55	32
BLUFF CREEK	4C11P	1040	Not Measured			222	0	222	0	89	4
SUMMIT LAKE	4C02	1280	30	No Snow		0	0	200A	0	50*	31
DEADWOOD RIVER	4C09P	1300	01	-	85	207	-	207	27	135*	3
CASSIAR	4C04	1390	Not Measured			-	197	484	79	308	31
SIKANNI LAKE	4C01	1400	02	85	240	343	197	360	115	261	33
<b>STIKINE/ TAKU</b>											
SPEEL RIVER	AK03	80	28	168	615	323	655	1240	51	678*	31
FORREST- KERR CREEK	4D08P	560	01	-	445	439	323	469	323	407*	5

TELEGRAPH CREEK	4D01	580	26	No Snow		14	0	163	0	30*	22
NINGUNSAW PASS	4B10	690	30	67	276	243	140A	547	0	254	21
DEASE LAKE	4C03	820	Not Available			80	0	178	0	55	32
ISKUT	4D02	1000	30	No Snow		0	0	146	0	20*	21
KINASKAN LAKE	4D11P	1020	01	-	280	314	216	487	216	376	6
TUMEKA CREEK	4D10P	1220	01	-	482	655	463	838	463	578	7
WADE LAKE	4D14P	1370	Not Measured			463	187	546	187	405	6
UPPER STIKINE	4D13P	1450	01	-	439	552	424	707	421	517	7
<b>YUKON</b>											
ATLIN LAKE	4E02A	730	30	No Snow		-	0	97	0	21*	12
LOG CABIN	4E01	880	25	88	285	303	321	531	173	318	39
PINE LK AIRSTRIP	YK03	1010	01	60	175	183	142	327	89	185*	21
MONTANA MTN.	YK05	1020	02	43	92	-	-	191	0	105*	17
TAGISH	YK04	1080	02	34	105	150	140	205	0	105*	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											