

Banner

June 1, 2000**UPPER FRASER AND NECHAKO**

Nechako/
Upper
Fraser

[Nechako & Upper Fraser Basin Snow Survey Measurements](#)

[Data Graphs](#)

The Snow Water Equivalent index stations in the Upper Fraser is at 117% of normal for June 1, while the Nechako is still below normal at 92%. Mean monthly temperature at valley bottom climate stations was 1.2 degrees C below normal over May. In the Upper Fraser, precipitation was near normal, while the Nechako basin finally got higher than usual seasonal precipitation, at 169% of normal for May. Cumulative precipitation since November in that basin is still only 77% of normal.

River flows, as measured by the mean monthly flow in the Fraser River at Marguerite, near Quesnel, were only 75% of normal during May.

MIDDLE AND LOWER FRASER

Lower
Fraser
Basin

[Middle & Lower Fraser Basin Snow Survey Measurements](#)

[Data Graphs](#)

While melt of the middle elevation snow in the Middle Fraser is well advanced, the upper elevation snowpack melt was slightly slower than usual during May. The Snow Water Equivalent index is 94% of normal for June 1. Mean monthly temperatures were 1.3 degrees C below normal for the month. Precipitation was slightly higher than normal, however the cumulative total precipitation since November is still only 92% of normal.

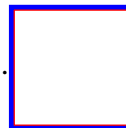
Melt of the upper elevation snowpack in the lower Fraser has been slower than normal during May, causing the Snow Water Equivalent index to rise slightly to 117% of normal from 115%. Monthly mean temperature at valley bottom climate stations has been slightly lower than normal. While Vancouver Island had near normal precipitation over May, the Lower Fraser had nearly twice its usual precipitation.

Flows in the Fraser River at Hope have been below average for this time of year.

NORTH AND SOUTH THOMPSON

Thomps
Basin
Snow

[Thompson Basin Snow Survey Measurements](#)



[Data Graphs](#)

The Snow Water Equivalent index has risen again over the last month, however this is mainly indicative of the slower than usual melt of the upper elevation snowpack during May. Middle elevation melt is well advanced. In the North Thompson, the index is at 123% of normal, and in the South Thompson at 130%. Monthly mean temperatures were 1.2 degrees C below normal, while precipitation in both basins was around 40% above usual over May.

Mean monthly flow in the Thompson River at Spences Bridge was 109% of normal over May.

May 1 Volume Runoff Forecasts- see May 1 2000 Snow Bulletin

2000 Hydrograph

[Hydrograph](#)

[Snow Bulletin Home Page](#)

[Groundwater Conditions](#)

[Snow Pillow Information](#)

Banner

June 1, 2000Columbia
&
Kootenay[Columbia & Kootenay Snow Survey Measurements](#)Okanagan
Kettle
Similkameen[Similkameen, Okanagan & Kettle Snow Survey Measurements](#)**UPPER AND LOWER COLUMBIA**

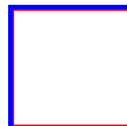
The Snow Water Equivalent index is at 130% of normal for June 1, for the Columbia basin. This is a result of upper elevation snowmelt being delayed due to cooler weather. Precipitation during May was near normal, with mean monthly temperatures just below normal.

Natural flows, as indicated by the Columbia River at Donald, were only 79% of normal during May. Many of the main rivers in this basin are controlled by hydro-electric dams and should not be subject to damaging flooding. However, any sustained hot spell during the next few weeks will bring water levels in uncontrolled streams or rivers up rapidly.

Data
Graphs[Data Graph](#)**EAST AND WEST KOOTENAY**

The Kootenay basin as a whole has a Snow Water Equivalent index of 96% of normal. However, as throughout this year, the East Kootenays have much less snow than the West Kootenays. The East Kootenays show very little snow under 1900 meters, while the few stations measured in the West Kootenays still show significant snow down to 1300 meters.

The Kootenay River at Fort Steele also had lower mean monthly flow during May, at 84% of normal. Many of the main rivers in this region are controlled by hydro-electric dams, and should not be subject to damaging flooding. However, any sustained hot spell during the next month could bring flows in uncontrolled rivers and streams up rapidly.

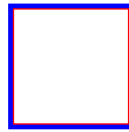
[Data Graphs](#)

OKANAGAN, KETTLE AND SIMILKAMEEN

Based on a relatively few readings, the Snow Water index for the Okanagan-Kettle has risen to 151% of normal. This is not due to continued snow accumulation, but to the delayed melt of higher elevation snowpacks. Mid elevation snow has mainly melted. Precipitation during May was near normal, with slightly cooler than usual mean monthly temperatures at valley bottom climate stations.

In the Similkameen, only high elevation snow remains. The Snow Water Equivalent index is at 59% of normal for June 1.

Flow in the Similkameen River has probably peaked for the year during the third week in May, barring heavy rainfall in the next week or two. Okanagan Lake levels are normal, despite twice the normal inflows during May. In the northeast Okanagan, those living next to snowmelt fed streams should be aware that any sustained hot weather could still bring water levels up rapidly.



[Data Graphs](#)

May 1 Volume Runoff Forecasts in May 1 2000 Bulletin

[Snow Bulletin Home Page](#)

[Groundwater Conditions](#)

[Snow Pillow Information](#)



Banner

June 1, 2000

Snow
Survey
Measurements

[Coastal Basin Snow Survey Measurements](#)

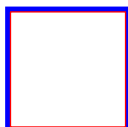
SOUTH COASTAL AND VANCOUVER ISLAND

Snowpacks in the South Coast are at 112% of normal, and near normal on Vancouver Island. May has been considerably wetter than usual, however cumulative precipitation since November has been near normal. Mean monthly temperatures have been slightly below normal.

Regional runoff, as indicated by inflows to Upper Campbell Lake, were normal during May. Those living in flood prone areas and adjacent to snowmelt-fed creeks should be aware that any warm weather will bring streams up rapidly.

CENTRAL COAST

The very few readings from the Central Coast indicate a below normal snowpack for this date. Flow in the Bella Coola River is slightly below normal for June 1.



[Data Graphs](#)

May 1 Volume Runoff Forecasts in May 1 2000 Snow Bulletin

[Snow Bulletin Home Page](#)

[Groundwater Conditions](#)

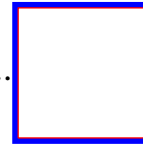
[Snow Pillow Information](#)

Banner

June 1, 2000**NORTHEASTERN**

NE
Snow
Survey

[Northeast Basins Snow Survey Measurements](#)



[Data Graphs](#)

The snowpack in the Peace River basin, based on the very few courses sampled, is above normal for this date. A delayed snowmelt, particularly in early May, has caused the slightly below normal snowpack reported May 1 to remain longer than usual. There is insufficient data to accurately assess the Liard basin snowpack.

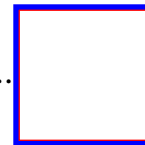
Mean monthly temperatures at valley bottom stations was 1.9 degrees C lower than normal over May, while precipitation was slightly below normal.

Streamflows, as indicated by inflows to Williston Lake inflows, were only 68% of normal over May.

NORTHWESTERN

NW
Snow
Survey

[Northwest Basins Snow Survey Measurements](#)



[Data Graphs](#)

Snowpacks in the Skeena and Nass River basins are slightly below normal for June 1. Snowpack melt has been slow during May in the Skeena, Nass and Stikine basins. Mean monthly temperatures were slightly below normal over May, and precipitation in the Skeena basin was also slightly below normal for the month.

River flows, as indicated by the flow in the Skeena River at Usk, are increasing but still slightly below normal for this date. Any period of warmer weather and more rapid melt, or significant rainfall, will bring river and stream levels up rapidly.

UPPER FRASER

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
UPPER FRASER											
PACIFIC LAKE	1A11	770	26	No Snow	347	0	348	0	81*	26	
HEDRICK LAKE	1A14	1100	26	61	318	-	-	665	0	353	21
BIRD CREEK	1A23	1180	30	No Snow	0	0	0	0	-	6	
BARKERVILLE	1A03P	1520	01	-	8	236	0	291	0	120	16
MC BRIDE (UPPER)	1A02	1580	26	65	281	377	0	592	0	266	32
KNUDSEN LAKE	1A15	1580	26	162	783	945	0	1039	0	762	25
NARROW LAKE	1A21	1650	26	169	827	1270	116	1339	116	855	26
REVOLUTION CREEK	1A17P	1690	01	-	752	723	0	820	0	514	15
LONGWORTH (UPPER)	1A05	1740	26	158	802	940	0	1194	0	630	43
DOME MOUNTAIN	1A19	1820	26	144	709	1047	0	1062	0	760	28
YELLOWHEAD	1A01P	1860	01	-	581	857	0	857	0	363*	3
HOLMES RIVER	1A18	1900	26	174	825	897	84	1029	84	748	29
NECHAKO											
SKINS LAKE	1B05	880	30	No Snow	0Z	0	0Z	0Z	-	11	
TAHTSA LAKE	1B02	1300	30	192	995	1371	551	1651	535	971	25

TAHTSA LAKE	1B02P	1300	01	-	1042	1576	652	1576	277	883*	7
KIDPRICE LAKE	4B01	1370	30	106	532	913	0	1209	0	680	25
MOUNT PONDOSY	1B08P	1400	01	-	305	689	0	689	0	249*	7
MOUNT WELLS	1B01	1490	30	47	208	270	0	488	0	238	23
MOUNT WELLS	1B01P	1490	01	-	219	369	0	463	0	298	8
NUTLI LAKE	1B07	1490	30	75	341	361	0	594	0	208*	9
MOUNT SWANNELL	1B06	1620	30	40	191	287	0	350Z	0	98*	11
MIDDLE FRASER											
BOSS MOUNTAIN MINE	1C20P	1460	01	-	270	431	0	435	0	248	6
BRENDA MINE	2F18P	1460	01	No Snow	-	0	0	0	0	-	6
BARKERVILLE	1A03P	1520	01	-	8	236	0	291	0	120	16
MOUNT TIMOTHY	1C17	1660	25	18	67B	332	0	332	0	65*	32
YANKS PEAK EAST	1C41P	1670	01	-	690	1016	-	1016	555	786*	2
PENFOLD CREEK	1C23	1680	26	188	1007	1354	460	1354	353	849	29
GREEN MOUNTAIN	1C12P	1780	01	-	600	1183	229	1183	229	640*	6
MISSION RIDGE	1C18P	1850	01	-	152	573	0	573	0	151	12
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 AND MIDDLE FRASER

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
MIDDLE FRASER											
BOSS MOUNTAIN MINE	1C20P	1460	01	-	270	431	0	435	0	248	6
BRENDA MINE	2F18P	1460	01	No Snow	-	0	0	0	0	-	6
BARKERVILLE	1A03P	1520	01	-	8	236	0	291	0	120	16
MOUNT TIMOTHY	1C17	1660	25	18	67B	332	0	332	0	65*	32
YANKS PEAK EAST	1C41P	1670	01	-	690	1016	-	1016	555	786*	2
PENFOLD CREEK	1C23	1680	26	188	1007	1354	460	1354	353	849	29
GREEN MOUNTAIN	1C12P	1780	01	-	600	1183	229	1183	229	640*	6
MISSION RIDGE	1C18P	1850	01	-	152	573	0	573	0	151	12
LOWER FRASER											
DISAPPOINTMENT LAKE	1D18P	1040	Not Measured			-	-	1087	1087	1087*	1
CALLAGHAN CREEK	3A20	1040	31	56	298	1228	48	1228	0	424	16
DOG MOUNTAIN	3A10	1080	31	242	1268	2480Z	518	2480Z	56	999	13
BEAVER PASS	WA12	1120	30	48	236	1270	180	1270	0	428*	6
WAHLEACH LAKE	1D09P	1400	01	-	1207	1359	488	1359	0	536*	7
CHILLIWACK RIVER	1D17P	1600	01	-	1583	-	841	1099	237	905	4
GREAT BEAR	1D15P	1660	01	-	1766	2378	1226	2378	908	1179	8
TENQUILLE LAKE	1D06	1680	02	196	1092	1790	595	1790	365	1030	44

SKAGIT

FREEZEOUT CREEK TRAIL	WA11	1070	30	No Snow		152	0	152	0	24*	7
BEAVER PASS	WA12	1120	30	48	236	1270	180	1270	0	428*	6
HARTS PASS	WA09	1980	01	157	815	1737	582	1737	406	1011*	8

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

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E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

COLUMBIA

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
UPPER COLUMBIA											
AZURE RIVER	1E08P	1620	01	-	1196	1778	530	1778	530	1197*	3
MOUNT REVELSTOKE	2A06P	1830	01	-	1594	2063	562	2063	240	995	7
NORTH CLEMINA CREEK	1E13	1860	26	215	1021	1135	393	1135	318	766*	11
MOLSON CREEK	2A21P	1980	01	-	1031	1512	249	1512	98	796	16
BOW SUMMIT II	AL07A	2080	31	67	239	325	0	414	0	167*	18
LOWER COLUMBIA											
BARNES CREEK	2B06P	1620	01	-	360	383	0	529	0	167*	7
ST. LEON CREEK	2B08P	1800	01	-	998	1580	398	1580	225	647	6
RECORD MOUNTAIN	2B09	1890	27	113	617	1073	230A	1073	0	526	25
EAST CREEK	2D08P	2030	01	-	943	1256	333	1256	111	673	17
EAST KOOTENAY											

SULLIVAN MINE	2C04	1550	30	No Snow		44	0	137	0	22*	17
MORRISSEY RIDGE	2C09Q	1800	01	No Snow		404	26	767	0	325	15
RED MOUNTAIN	MT04	1830	30	No Snow		325	0	559	0	139*	36
MOYIE MOUNTAIN	2C10P	1930	01	-	15	214	0	438	0	85*	14
FLOE LAKE	2C14P	2090	01	-	881	979	98	979	98	342	5
HIGHWOOD SUMMIT (BUSH)	AL02	2210	01	113	442	531	89	660	89	366*	19
SUNSHINE VILLAGE	AL05	2230	30	165	709	706	107	902	107	505*	15
WEST KOOTENAY											
CHAR CREEK	2D06	1310	31	38	195	-	-	327	0	58*	29
GRAY CREEK (LOWER)	2D05	1550	29	44	212	523	-	551	0	200	50
GRAY CREEK (UPPER)	2D10	1910	29	114	591	1041	-	1120	0	555	30
EAST CREEK	2D08P	2030	01	-	943	1256	333	1256	111	673	17
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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E - ESTIMATED BASED ON AREAL AVERAGE											
* - PERIOD OF RECORD AVERAGE											

[Go to Thompson Snow Station Map](#)

THOMPSON

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
NORTH THOMPSON											
COOK FORKS	1E06	1390	29	114	594	961	0	1026	0	458	37
BOSS MOUNTAIN MINE	1C20P	1460	01	-	270	431	0	435	0	248	6
MOUNT COOK	1E02A	1580	29	248	1251	1744	619	1744	377	1125	26
AZURE RIVER	1E08P	1620	01	-	1196	1778	530	1778	530	1197*	3
ADAMS RIVER	1E07	1720	31	142	752	1155	290	1155	0	645	30
KOSTAL LAKE	1E10P	1770	01	-	972	1377	408	1377	155	753	15
NORTH CLEMINA CREEK	1E13	1860	26	215	1021	1135	393	1135	318	766*	11
SOUTH THOMPSON											
ADAMS RIVER	1E07	1720	31	142	752	1155	290	1155	0	645	30
SILVER STAR MOUNTAIN	2F10	1840	29	136	715	908	250	980	0	409	41
PARK MOUNTAIN	1F03P	1890	01	-	995	1269	296	1269	296	811	14
ENDERBY	1F04	1900	28	263	1280	1409	549	1422	430	985	36

MIDDLE FRASER											
BOSS MOUNTAIN MINE	1C20P	1460	01	-	270	431	0	435	0	248	6
BRENDA MINE	2F18P	1460	01	No Snow		-	0	0	0	-	6
BARKERVILLE	1A03P	1520	01	-	8	236	0	291	0	120	16
MOUNT TIMOTHY	1C17	1660	25	18	67B	332	0	332	0	65*	32
YANKS PEAK EAST	1C41P	1670	01	-	690	1016	-	1016	555	786*	2
PENFOLD CREEK	1C23	1680	26	188	1007	1354	460	1354	353	849	29
GREEN MOUNTAIN	1C12P	1780	01	-	600	1183	229	1183	229	640*	6
MISSION RIDGE	1C18P	1850	01	-	152	573	0	573	0	151	12
A - SAMPLING PROBLEMS WERE ENCOUNTERED											
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E - ESTIMATED BASED ON AREAL AVERAGE											
* - PERIOD OF RECORD AVERAGE											

OKANAGAN

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
KETTLE											
BIG WHITE MOUNTAIN	2E03	1680	28	71	330	438	5A	658	0	194	34
GRANO CREEK	2E07P	1860	01	-	431	754	11	754	11	383*	2
OKANAGAN											
BRENDA MINE	2F18P	1460	01	No Snow	-	0	0	0	0	-	6
MISSION CREEK	2F05P	1780	01	-	465	641	0	641	0	209	28
MOUNT KOBAN	2F12	1810	28	9	31	437	102	488	0	128	34
WHITEROCKS MOUNTAIN	2F09	1830	01	53	236	653	0	848	0	167	28
SILVER STAR MOUNTAIN	2F10	1840	29	136	715	908	250	980	0	409	41
SIMILKAMEEN											
FREEZEOUT CREEK TRAIL	WA11	1070	30	No Snow	152	0	152	0	0	24*	7
BLACKWALL PEAK	2G03P	1940	01	-	401	1058	180	1253	0	607	32
HARTS PASS	WA09	1980	01	157	815	1737	582	1737	406	1011*	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

COASTAL

June 1, 2000

Snow Survey Measurements

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
SOUTH COASTAL											
PALISADE LAKE	3A09P	880	Not Available		-	-	-	-	-	-	0
CALLAGHAN CREEK	3A20	1040	31	56	298	1228	48	1228	0	424	16
DOG MOUNTAIN	3A10	1080	31	242	1268	2480Z	518	2480Z	56	999	13
ORCHID LAKE	3A19	1190	01	330	1700	3648Z	1182	3648Z	174	1593	21
ORCHID LAKE	3A19P	1190	Not Available		-	-	2463	124	1536*	11	
UPPER SQUAMISH RIVER	3A25P	1340	01	-	1455	-	1058	1485	634	1246	9
NOSTETUKO RIVER	3A22P	1500	01	-	61	530	-	530	0	74*	9
UPPER MOSELY CREEK	3A24P	1650	01	No Snow		146	0	204	0	32*	11
VANCOUVER ISLAND											
TENNENT LAKE	3B22	950	Not Measured		-	-	712	0	232*	10	

JUMP CREEK	3B23P	1160	01	-	983	-	131	701	0	277*	3
WOLF RIVER (UPPER)	3B17P	1490	01	-	1271	2465	1329	2465	305	1119	12

**NORTH
COASTAL**

TAHTSA LAKE	1B02	1300	30	192	995	1371	551	1651	535	971	25
TAHTSA LAKE	1B02P	1300	01	-	1042	1576	652	1576	277	883*	7
BURNT BRIDGE CREEK	3C08P	1330	01	-	165	686	0	686	0	343*	2

**SKEENA/
NASS**

LU LAKE	4B15P	1310	01	No Snow	26	0	26	0	13*	2	
TSAI CREEK	4B17P	1360	01	-	968	1388	371	1388	371	880*	2
KIDPRICE LAKE	4B01	1370	30	106	532	913	0	1209	0	680	25
HUDSON BAY MTN.	4B03A	1480	31	59	248	443	-	729	0	323	27
SHEDIN CREEK	4B16P	1480	01	-	919	720	98	945	98	575*	4

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

NORTH EAST*June 1, 2000***Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
PEACE											
PACIFIC LAKE	1A11	770	26	No Snow	347	0	348	0	81*	26	
AIKEN LAKE	4A30P	1040	01	No Snow	0	0	0	0	-	13	
PULPIT LAKE	4A09P	1310	01	-	61	119	0	146	0	29*	9
PINE PASS	4A02P	1400	01	-	966	1152	183	1152	183	871	7
KWADACHA RIVER	4A27P	1620	Not Measured			458	-	458	0	211	12
LIARD											
DEADWOOD RIVER	4C09P	1300	01	No Snow	31	0	31	0	5*	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											

NORTH WEST*June 1, 2000***Snow Survey Measurements**

Drainage Basin and Snow Course	Station Number	Elev m	Date of Survey	Snow Depth cm	WATER EQUIVALENT (mm)						No. Years Record
					2000	1999	1998	Max.	Min.	Normal	
STIKINE/ TAKU											
SPEEL RIVER	AK03	80	01	No Snow	612	0	884	0	212*	16	
FORREST-KERR CREEK	4D08P	560	01	No Snow	24	0	135	0	18*	9	
KINASKAN LAKE	4D11P	1020	01	-	43	0	0	83	0	9*	9
TUMEKA CREEK	4D10P	1220	01	-	259	219	0	488	0	89	10
WADE LAKE	4D14P	1370	01	-	243	189	0	204	0	90	8
YUKON											
SKEENA/ NASS											
LU LAKE	4B15P	1310	01	No Snow	26	0	26	0	13*	2	
TSAI CREEK	4B17P	1360	01	-	968	1388	371	1388	371	880*	2
KIDPRICE LAKE	4B01	1370	30	106	532	913	0	1209	0	680	25
HUDSON BAY MTN.	4B03A	1480	31	59	248	443	-	729	0	323	27
SHEDIN CREEK	4B16P	1480	01	-	919	720	98	945	98	575*	4

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE