

Banner[Province-Wide Synopsis](#)

Snowpack and Water Supply Outlook for British Columbia

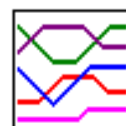
May 15, 2004

[Basin Data and Graphs](#)

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.

[-Upper Fraser](#)[-Mid and Lower Fraser](#)[-Thompson](#)

Province-wide Synopsis



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

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

The May 15 snow survey is of a relatively small number of stations compared with the surveys done in the previous measurements. Data from 35 snow courses and 54 snow pillows around the province have been used to form the basis for the following reports.

[-Coastal](#)

Snowpack

BC May 15 snowpacks vary from slightly below normal to far below, with the majority in the southern half of the province in the well below to far below normal range. While cumulative winter precipitation has been generally below normal, the biggest factor in the small southern BC snowpacks for May 15 has been the warm March, April, and mid-May weather, resulting in a spring snowmelt two to four weeks ahead of schedule, on already below normal peak snowpacks. This has also resulted in much higher snowlines than usual for this date in south and central BC. Extreme northern and northeast (Liard to Upper Fraser) snow melt does not appear to be much ahead of usual, although the Liard still has far below and the Peace below normal snowpacks for May 15. Stikine snowpacks are the only near normal snowpacks noted in BC for this date.

[-NorthEast](#)[-NorthWest](#)[-May 1 Seasonal flow volume forecasts](#)[-April 1 Peak Snowpack Map](#)

Weather

May started very warm in southern BC, with little precipitation. The second week was cooler with more normal precipitation in most places. While the south has again warmed up again, some precipitation has occurred. Rain is forecast over the next week. Parts of the north-east have received substantial rains over the last week or so. The Skeena has had warm dry weather since early May.

[-Drought monitoring](#)[-Groundwater](#)

[Corrected or
previously
unpublished data](#)

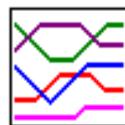
Outlook

Snowlines in the southern half of the province are higher than usual for this date. Unless there are substantial rains in the next few months (not forecast) this will result in earlier than normal fire hazards, particularly in southern regions affected by last summer's drought. The ground in those regions is drying very quickly after it is bare of snow. See the [Ministry of Forests web-site](#) for current information on fire hazards.

There is a lower than normal chance of flooding nearly everywhere in BC this spring. Some southern streams may have already seen their peaks for the year (very early) unless there is heavy sustained rain over the next two weeks. Less upper elevation snow in most areas could result in streamflows dropping more quickly than usual after the freshet, particularly if the summer is drier and warmer than usual, as is forecast for most of the province by both Environment Canada and the Canadian Institute for Climate Studies. The north-west is the only region where high flood flows are still a reasonable possibility. See basin commentaries for particulars.

Residents with limited water supplies in nearly all parts of the province, particularly in the southern half, should practice water conservation throughout the upcoming months, unless heavy rains in May and June change the situation. Residents of the Okanagan, Nicola, North Thompson, East Kootenays, southern Vancouver Island, and some other parts of the southern interior should start practicing strict water conservation now, not later, as conditions could become drier than last summer. Other regions in BC of concern for drought potential this year can be found in our [drought monitoring page](#).

Upper Fraser & Nechako Basins



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May 15

The overall mid to upper elevation snow water equivalent index for the Upper Fraser has dropped very slightly since May 1, to 69% of normal, down from the April 1 value of 79% of normal. Snowmelt has slowed in the first two weeks of May, and there have even been a couple of stations showing slight accumulations in that period.

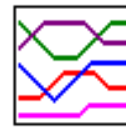
The Nechako reservoir basin has far below normal snowpacks, with a still dropping snow index value of 52% of normal for May 15. Snow melt continues to be two to three weeks advanced. All three snow pillow readings are new minimums for their 11-12 years of record. From very little data it is unclear whether the below normal

snowpack in the Stuart drainage has continued early melt, or the slower melt rates experienced by areas to the east.

Regional streamflows in the Upper Fraser have been lower than usual for the first two weeks of May due to the cooler weather, however they have been rising for the last few days. It is likely the Fraser at Prince George will peak at around the average spring peak flow within the next week or two. It is very unlikely that extreme high flows will occur in the Upper Fraser, even if extreme weather patterns during the next two weeks. Drought conditions are forecast for the Nechako plateau region this summer, unless substantial rainfall occurs in the next two months.

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Middle and Lower Fraser



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May 15

The overall Middle Fraser snow water index is continuing to drop, due to early melt. It has fallen from 80% of normal for April 1 to 44% for May 15. Snowmelt started around two weeks earlier than usual, with melt beginning during April at some upper elevation stations that usually show accumulations for that month. Most readings below 1500 m show no snow. Upper elevation snowpacks vary across the basin, with the more eastern Cariboo Mountains approximately 70% of normal, and the Bridge River readings averaging less than half, with a few new minimum readings for their periods of record. For Nicola comments, see Thompson basin.

The Lower Fraser snow water index has dropped again for the third month, to 61% of normal, down from 84% April 1. April precipitation was much lower than usual, and the last 10 days continue the pattern of warm, dry weather. Although the snowline is higher than usual for this date, and hence the extent of remaining snow smaller than normal, the the upper mountains surrounding the lower Fraser Valley west of Hope appear to have only slightly below normal depths. The remainder of the lower Fraser has well below normal snowpacks due to a warm late winter and spring, and a dry period since April 1.

Flows in the Fraser River at Hope have been lower than usual the last two weeks, as the lower and middle Fraser runoff appears to have peaked in early May, and be declining, and runoff from the Upper Fraser has slowed from cooler weather. Flood level flows in the lower mainstem Fraser are extremely unlikely. Unless melt from the Upper Fraser is rapid over the next week or so, or heavy basin-wide rain is experienced, we may have already seen a very low, early peak for the year at

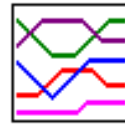
Hope.



[Hydrograph of the Fraser River at Hope](#)

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Thompson Basin



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May 15

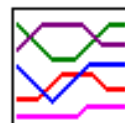
The Thompson snow water indexes have both fallen slightly in the last two weeks, as early melt continues. While the first week of May was cooler, the second week was again dry and warm. The North Thompson snow index is at 67% of normal, and the South Thompson index at 72% of normal for May 15. Most North Thompson snow readings are new minimums for the date, including 1E06 Cook Forks, with 40 years of records.

From sparse data, very little snow remains in the Nicola. It is uncertain whether remaining runoff is enough to fill Nicola Lake to full pool level.

With little low to mid elevation snow remaining, and cooler temperatures late in the first week of May, streamflows fell. However the warmer temperatures of the last week have flows in the Thompson rising again. Unless extreme weather conditions occur in the next few weeks, flows may not again rise above those experienced in the first few days of May. High flood level flows are extremely unlikely this spring, and unless the next two months are very wet, drought conditions will be seen in the Thompson this summer, particularly in the North and lower Thompson.

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Columbia Basin



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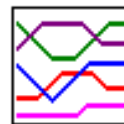
May 15

The snow water index for the overall Columbia basin is at 77% of normal for May 15, down from 89% April 1, Temperatures have been cool in Revelstoke compared to usual for the first two weeks of the month, but have risen since then, while precipitation appears to have been slightly above normal during the first two weeks of May. There is still north/south variation in the Columbia mainstem basin snowpacks, with upper Columbia readings in the 70-90% range. The Lower Columbia, where early melt was more pronounced, appears to have upper elevation remaining snowpacks around 60-65% of normal snow water equivalent for May 15.

Streamflows in the Columbia, as represented by flows at Donald, dropped to slightly below normal in the cool first 12 days of May, but have risen to slightly above normals in the last few days. It is unlikely high flood levels will be experienced in the region this freshet, unless there is sustained hot weather and then rain. The lower Columbia will experience very dry conditions this summer unless there is substantial rain in the next two months.

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Kootenay Basin



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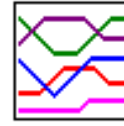
May 15

The overall Kootenay snow index is at 61% of normal for May 15, far below usual snowpacks on this date. The few readings show very little snow in the East Kootenays, with only high elevation snow remaining. The West Kootenays appears to have around half of its usual May 15 mid-elevation snow, and around 3/4 of its normal high elevation snow.

Streamflows, as indicated by the flows in the Kootenay River at Fort Steele, were above normal in early May, dropped with cooler weather over the second week, and are now rising due to rainfall. Flood level flows are extremely unlikely, and early May flows may have been the peak flows for this freshet in most locations, unless forecast rain this weekend brings them slightly higher. If heavy rain does not occur over the next two months, the Kootenays, especially eastern areas, will experience drought conditions this summer.

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Okanagan, Kettle, and Similkameen Basins



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May 15

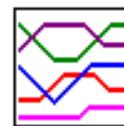
The overall snow water index for the Okanagan & Kettle is still falling, from 89% of normal April 1, to 70% of normal for May 1, and now 58% of normal May 15, due to both early snow melt (2 to 3 weeks), and to receiving less than half of the usual April precipitation (42% at Kelowna). No snow remains at stations measured in the Okanagan below 1700 meters. Upper elevation snow courses are reading in the range of 2/3 of normal snow, with the exception of Mission Creek pillow, which has normal snow for this date.

The Similkameen basin snow index has fallen to far below normal, from 81% April 1 to 43% of normal for May 15. As a result of a warm, dry April, snowline appears to be above 1700 meters, and the only high elevation station, Blackwall snow pillow, 2G03P, has around 2/3 of its normal snow water equivalent.

Streamflows, which were higher than normal in early May, fell with receding snowpacks and cooler weather to well below normal during the second week of May. Unless the recent rain continues heavily, this early May peak may have been the peak for the freshet. Drought conditions will occur this summer, and Okanagan Lake is unlikely to even reach last year's peak level, unless heavy extended rains occur over the next few months .

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Vancouver Island & Coastal Regions



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May 15

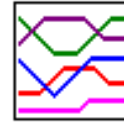
As with most of southern BC, due to the warm, dry weather during April and mid-May, snow indexes fell again on May 15, from 96% on April 1 to 77% of normal May 15 on Vancouver Island, and from 93% April 1 to 67% May 15 on the South Coast. Snowlines are high, with only upper elevation snow remaining, although there does appear to be some mid-elevation snow on the extreme South Coast. On the Central Coast snowpack area and depth is also well below normal.

Many small streams in lower elevation basins are drying up early on the Islands,

and unless substantial rain is experienced over the next two months drought conditions will exist (on central and southern Vancouver Island particularly) this summer. Similiar conditions could occur along the south and central coast.

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North East Region



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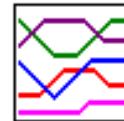
May 15

The Peace basin has the only snow water index which rose slightly in the last two weeks, however snowpacks are still below normal. The only Liard reading, Deadwood River snow pillow 4C09P, shows less than half of normal snow, however this is a result of little accumulation during the winter, not early melt. Melt appears to be following its usual timing in the north-east.

Drought conditions could be experienced in lower sub-basins in the Liard this summer, however precipitation over the last two months has been higher than normal, reducing the risk slightly.

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NorthWest Region



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May 15

The overall Skeena/Nass snow water index has dropped sharply, from 83% April 1 to 52% May 15, as the Skeena has joined much of the rest of the southern half of the province in early snow melt.

From a relatively few readings, the Stikine appears to have a slightly below normal snowpack for May 15.

Regional streamflows, as indicated by the flows in the Skeena River at Usk, have risen over the last few weeks with the warmer temperatures. Although it is unlikely, the Skeena could still reach high flood levels if heavy sustained rains occur over the next two or three weeks, however it is likely to reach a peak over the next week or two at average freshet levels. Drought conditions are a high possibility in the

Bulkley, as snowpacks and spring precipitation have been light, unless above normal rainfall occurs during the next two months.

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UPPER and MIDDLE FRASER*May 15, 2004***UPPER FRASER****Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|-----------------------------------|-------------------|-----------|----------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| PACIFIC LAKE | 1A11 | 770 | 12 | 56 | 242 | 214 | 694 | 728 | 0 | 341 | 29 |
| HEDRICK LAKE | 1A14P | 1100 | 15 | - | 709 | 435 | 998 | 998 | 435 | 719* | 4 |
| BARKERVILLE | 1A03P | 1520 | 15 | No Snow | 105 | 420 | 503 | 0 | 234 | 26 | |
| KNUDSEN LAKE | 1A15 | 1580 | 12 | 144 | 642 | 660 | 1075 | 1205 | 359 | 832 | 29 |
| MC BRIDE (UPPER) | 1A02 | 1580 | 12 | 57 | 221 | 303 | 448 | 752 | 24 | 367 | 36 |
| NARROW LAKE | 1A21 | 1650 | 13 | 152 | 705 | 690 | - | 1375 | 489 | 950 | 28 |
| REVOLUTION CREEK | 1A17P | 1690 | 15 | - | 435 | 443 | 1074 | 1161 | 228 | 713 | 18 |
| LONGWORTH (UPPER) | 1A05 | 1740 | 12 | 141 | 602 | 616 | 1172 | 1219 | 292 | 772 | 50 |
| DOME MOUNTAIN | 1A19 | 1820 | 12 | 145 | 591 | 604 | 999 | 1168 | 385 | 813 | 31 |
| YELLOWHEAD | 1A01P | 1860 | 15 | - | 401 | 611 | 731 | 825 | 139 | 579 | 7 |
| HOLMES RIVER | 1A18 | 1900 | 12 | 158 | 602 | 688 | 928 | 1125 | 359 | 777 | 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

NECHAKO**Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| TAHTSA LAKE | 1B02P | 1300 | 15 | - | 671 | 972 | 1765 | 1765 | 732 | 1255 | 11 |
| MOUNT PONDOSY | 1B08P | 1400 | 15 | - | 207 | 561 | 1198 | 1198 | 314 | 645 | 11 |
| MOUNT WELLS | 1B01P | 1490 | 15 | - | 171 | 344 | 759 | 759 | 277 | 510 | 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

MIDDLE FRASER**Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| BOSS MOUNTAIN MINE | 1C20P | 1460 | 15 | - | 398 | 304 | 664 | 761 | 184 | 464 | 10 |
| BRENDA MINE | 2F18P | 1460 | 15 | No Snow | 0 | 17 | 125 | 0 | 22* | | 11 |
| BARKERVILLE | 1A03P | 1520 | 15 | No Snow | 105 | 420 | 503 | 0 | 234 | | 26 |

| | | | | | | | | | | | |
|--------------------|-------|------|----|---------|-----|------|------|------|-----|------|----|
| MOUNT TIMOTHY | 1C17 | 1660 | 09 | 23 | 76 | 140 | 330Z | 466 | 0 | 201 | 35 |
| YANKS PEAK EAST | 1C41P | 1670 | 15 | - | 563 | 511 | 1046 | 1125 | 398 | 800 | 7 |
| PENFOLD CREEK | 1C23 | 1680 | 13 | 142 | 689 | 884 | 1223 | 1400 | 585 | 1019 | 34 |
| GREEN MOUNTAIN | 1C12P | 1780 | 15 | - | 424 | 1009 | 1106 | 1366 | 573 | 845 | 10 |
| MISSION RIDGE | 1C18P | 1850 | 15 | No Snow | | 463 | 512 | 878 | 0 | 382 | 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

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MIDDLE and LOWER FRASER*May 15, 2004***MIDDLE FRASER****Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|-----------------------------------|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| BOSS MOUNTAIN MINE | 1C20P | 1460 | 15 | - | 398 | 304 | 664 | 761 | 184 | 464 | 10 |
| BRENDA MINE | 2F18P | 1460 | 15 | No Snow | 0 | 17 | 125 | 0 | 22* | | 11 |
| BARKERVILLE | 1A03P | 1520 | 15 | No Snow | 105 | 420 | 503 | 0 | 234 | | 26 |
| MOUNT TIMOTHY | 1C17 | 1660 | 09 | 23 | 76 | 140 | 330Z | 466 | 0 | 201 | 35 |
| YANKS PEAK EAST | 1C41P | 1670 | 15 | - | 563 | 511 | 1046 | 1125 | 398 | 800 | 7 |
| PENFOLD CREEK | 1C23 | 1680 | 13 | 142 | 689 | 884 | 1223 | 1400 | 585 | 1019 | 34 |
| GREEN MOUNTAIN | 1C12P | 1780 | 15 | - | 424 | 1009 | 1106 | 1366 | 573 | 845 | 10 |
| MISSION RIDGE | 1C18P | 1850 | 15 | No Snow | 463 | 512 | 878 | 0 | 382 | | 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

LOWER FRASER**Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|----------------|--------|----------------|---------------|-----------------------|------|-------|-------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| DISAPPOINTMENT LAKE | 1D18P | 1040 | 14 | - | 955P | 730P | 1930P | 1930P | 730P | 1437* | 3 |
| DOG MOUNTAIN | 3A10 | 1080 | 14 | 156 | 820 | 431 | 1565 | 2920Z | 0 | 1100 | 18 |
| SPUZZUM CREEK | 1D19P | 1180 | 15 | - | 975 | 1032 | 2085 | 2085 | 1032 | 1505* | 4 |
| WAHLEACH LAKE | 1D09P | 1400 | 15 | - | 988 | 911 | 1436 | 1624 | 335 | 960 | 12 |
| CHILLIWACK RIVER | 1D17P | 1600 | 15 | - | 1271 | 1335 | 2186 | 2186 | 764 | 1258* | 9 |
| GREAT BEAR | 1D15P | 1660 | 15 | - | 1316 | 1425 | 2411 | 2436 | 1114 | 1823 | 12 |
| TENQUILLE LAKE | 1D06 | 1680 | 15 | 125 | 691 | 1248 | 1328 | 1875 | 625 | 1162 | 47 |
| TENQUILLE LAKE | 1D06P | 1680 | 15 | - | 469 | 1144 | 1211 | 1211 | 765 | 1040* | 3 |
| 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) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| HARTS PASS | WA09P | 1980 | Not Available | | - | 1285 | 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

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THOMPSON

May 15, 2004

NORTH THOMPSON

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------------|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| COOK CREEK | 1E14P | 1280 | 15 | - | 259 | 0 | 308 | 345 | 0 | 199* | 4 |
| COOK FORKS | 1E06 | 1390 | 16 | 57 | 273 | 489 | 924 | 1359 | 274 | 688 | 40 |
| BOSS MOUNTAIN MINE | 1C20P | 1460 | 15 | - | 398 | 304 | 664 | 761 | 184 | 464 | 10 |
| MOUNT COOK | 1E02P | 1550 | 15 | - | 855 | 1196 | 1793 | 1793 | 953 | 1314* | 3 |
| MOUNT COOK | 1E02A | 1580 | 16 | 149 | 760 | 1077 | 1544 | 1856 | 873 | 1270 | 28 |
| AZURE RIVER | 1E08P | 1620 | 15 | - | 743 | 923 | 1406 | 1665 | 806 | 1230 | 7 |
| ADAMS RIVER | 1E07 | 1720 | 11 | 99 | 466 | 612 | 972 | 1158 | 280 | 712 | 32 |
| KOSTAL LAKE | 1E10P | 1770 | 15 | - | 568 | 691 | 1058 | 1357 | 588 | 887 | 19 |
| NORTH CLEMINA CREEK | 1E13 | 1860 | 12 | 140 | 618 | 813 | 1060 | 1177 | 536 | 856 | 13 |

| | | | | | | | | | | | |
|--|-------|------|----|----|-----|-----|-----|------|-----|-----|----|
| TROPHY MOUNTAIN | 1E03A | 1860 | 12 | 78 | 372 | 448 | 796 | 1114 | 301 | 608 | 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 | | | | | | | | | | | |

SOUTH THOMPSON

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|----------------|--------|----------------|---------------|-----------------------|-------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| ADAMS RIVER | 1E07 | 1720 | 11 | 99 | 466 | 612 | 972 | 1158 | 280 | 712 | 32 |
| SILVER STAR MOUNTAIN | 2F10 | 1840 | 15 | 95 | 473 | 685 | 895 | 1054 | 100 | 661 | 45 |
| PARK MOUNTAIN | 1F03P | 1890 | 15 | - | 675 | 864 | 1090 | 1321 | 474 | 927 | 19 |
| ENDERBY | 1F04 | 1900 | 15 | 168 | 738 | 1060Z | 1366 | 1499 | 662 | 1089 | 41 |
| 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 | 2004 | 2003 | 2002 | Max. | Min. | Normal | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|------|------|------|------|------|--------|------------------|
| BOSS MOUNTAIN MINE | 1C20P | 1460 | 15 | - | 398 | 304 | 664 | 761 | 184 | 464 | 10 |
| BRENDA MINE | 2F18P | 1460 | 15 | No Snow | 0 | 17 | 125 | 0 | 22* | | 11 |
| BARKERVILLE | 1A03P | 1520 | 15 | No Snow | 105 | 420 | 503 | 0 | 234 | | 26 |
| MOUNT TIMOTHY | 1C17 | 1660 | 09 | 23 | 76 | 140 | 330Z | 466 | 0 | 201 | 35 |
| YANKS PEAK EAST | 1C41P | 1670 | 15 | - | 563 | 511 | 1046 | 1125 | 398 | 800 | 7 |
| PENFOLD CREEK | 1C23 | 1680 | 13 | 142 | 689 | 884 | 1223 | 1400 | 585 | 1019 | 34 |
| GREEN MOUNTAIN | 1C12P | 1780 | 15 | - | 424 | 1009 | 1106 | 1366 | 573 | 845 | 10 |
| MISSION RIDGE | 1C18P | 1850 | 15 | No Snow | 463 | 512 | 878 | 0 | 382 | | 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

Banner

COLUMBIA

May 15, 2004

UPPER COLUMBIA

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|-----------------------------------|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|-------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| AZURE RIVER | 1E08P | 1620 | 15 | - | 743 | 923 | 1406 | 1665 | 806 | 1230 | 7 |
| MOUNT REVELSTOKE | 2A06P | 1830 | 15 | - | 1031 | 1133 | 1567 | 1777 | 700 | 1297 | 11 |
| NORTH CLEMINA CREEK | 1E13 | 1860 | 12 | 140 | 618 | 813 | 1060 | 1177 | 536 | 856 | 13 |
| MOLSON CREEK | 2A21P | 1980 | 15 | - | 964 | 1061 | 1335 | 1375E | 602 | 1040 | 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

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| FARRON | 2B02A | 1220 | 14 | No Snow | 14 | 32 | 222 | 0 | 110 | 24 | |
| BARNES CREEK | 2B06P | 1620 | 15 | - | 229 | 675 | 555 | 761 | 94 | 438 | 11 |
| ST. LEON CREEK | 2B08P | 1800 | 15 | - | 720 | 1031 | 1481 | 1568 | 639 | 1080 | 10 |
| RECORD MOUNTAIN | 2B09 | 1890 | 14 | 76 | 353 | 727 | 818 | 1367 | 83 | 676 | 29 |
| EAST CREEK | 2D08P | 2030 | 15 | - | 754 | 806 | 956 | 1387 | 461 | 925 | 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

May 15, 2004

EAST KOOTENAY

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| FERNIE EAST | 2C07 | 1250 | 15 | No Snow | 8 | 156 | 290 | 0 | 46 | 42 | |
| SULLIVAN MINE | 2C04 | 1550 | 15 | No Snow | 0 | 213 | 457 | 0 | 105 | 52 | |
| BANFIELD MOUNTAIN | MT05P | 1710 | Not Available | | | 236 | 373 | 569 | 0 | 305 | 6 |
| MORRISSEY RIDGE | 2C09Q | 1800 | 15 | - | 105 | 731 | 1091 | 1091 | 0 | 460 | 20 |
| MOYIE MOUNTAIN | 2C10P | 1930 | 15 | No Snow | 308 | 431 | 552 | 0 | 255 | 23 | |
| HAWKINS LAKE | MT06P | 1970 | Not Available | | | 523 | 737 | 1067 | 178 | 706 | 7 |
| FLOE LAKE | 2C14P | 2090 | 15 | - | 683 | 874 | 897 | 1088 | 304 | 765 | 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 | | | | | | | | | | | |

WEST KOOTENAY**Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|-------------------|-----------|----------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| CHAR CREEK | 2D06 | 1310 | 15 | 30 | 142 | 318 | 358 | 715 | 0 | 279 | 34 |
| BUNCHGRASS MEADOW | WA01P | 1520 | Not Available | | | 665 | 678 | 1163 | 307 | 582 | 7 |
| EAST CREEK | 2D08P | 2030 | 15 | - | 754 | 806 | 956 | 1387 | 461 | 925 | 22 |
| REDFISH CREEK | 2D14P | 2104 | 15 | - | 1024 | 1387 | 1748 | 1748 | 1387 | 1568* | 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 | | | | | | | | | | | |

Banner

KETTLE, OKANAGAN and SIMILKAMEEN*May 15, 2004***KETTLE****Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| FARRON | 2B02A | 1220 | 14 | No Snow | 14 | 32 | 222 | 0 | 110 | 24 | |
| BIG WHITE MOUNTAIN | 2E03 | 1680 | 16 | 51 | 228 | 426 | 512 | 732 | 0 | 390 | 38 |
| GRANO CREEK | 2E07P | 1860 | 15 | - | 375A | 593 | 675 | 855 | 308 | 568* | 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 | | | | | | | | | | | |

OKANAGAN**Snow Survey Measurements**

WATER EQUIVALENT (mm)

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| SUMMERLAND RESERVOIR | 2F02 | 1280 | 15 | No Snow | 0Z | 0 | 218 | 0Z | 32 | 38 | |
| VASEUX CREEK | 2F20 | 1400 | 15 | No Snow | 0Z | 0 | 80 | 0Z | 9 | 32 | |
| TROUT CREEK | 2F01 | 1430 | 15 | No Snow | 0 | 0 | 307 | 0 | 30 | 51 | |
| BRENDA MINE | 2F18P | 1460 | 15 | No Snow | 0 | 17 | 125 | 0 | 22* | 11 | |
| GREYBACK RESERVOIR | 2F08 | 1550 | 17 | No Snow | 26 | 78 | 323 | 0 | 100 | 32 | |
| ISINTOK LAKE | 2F11 | 1680 | 15 | No Snow | 4 | 66 | 386 | 0 | 78 | 38 | |
| MISSION CREEK | 2F05P | 1780 | 15 | - | 401 | 540 | 638 | 829 | 0 | 407 | 32 |
| MOUNT KOBAU | 2F12 | 1810 | 15 | 29 | 93 | 314 | 306 | 516 | 0 | 254 | 37 |
| WHITEROCKS MOUNTAIN | 2F09 | 1830 | 14 | 53 | 212 | 289 | 618 | 968 | 0 | 401 | 33 |
| SILVER STAR MOUNTAIN | 2F10 | 1840 | 15 | 95 | 473 | 685 | 895 | 1054 | 100 | 661 | 45 |

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

SIMILKAMEEN

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| MISSEZULA MOUNTAIN | 2G05 | 1550 | 15 | No Snow | 0 | 117 | 218 | 0 | 54 | 40 | |
| ISINTOK LAKE | 2F11 | 1680 | 15 | No Snow | 4 | 66 | 386 | 0 | 78 | 38 | |
| LOST HORSE MOUNTAIN | 2G04 | 1920 | Not Measured | | 220A | 254 | 577 | 4 | 192 | 40 | |

| | | | | | | | | | | | |
|--|-------|------|---------------|---|-----|------|------|------|-----|-----|----|
| BLACKWALL PEAK | 2G03P | 1940 | 15 | - | 450 | 671 | 1110 | 1481 | 208 | 706 | 36 |
| HARTS PASS | WA09P | 1980 | Not Available | | - | 1285 | 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, 2004

SOUTH COASTAL

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------------|-------------------|-----------|----------------------|---------------------|-----------------------|------|------|-------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| PALISADE LAKE | 3A09P | 880 | Not Available | | | - | - | 1045 | 1045 | 1045* | 1 |
| DOG MOUNTAIN | 3A10 | 1080 | 14 | 156 | 820 | 431 | 1565 | 2920Z | 0 | 1100 | 18 |
| ORCHID LAKE | 3A19 | 1190 | 14 | 264 | 1430 | 1230 | 1927 | 3730A | 774 | 1900 | 23 |
| ORCHID LAKE | 3A19P | 1190 | 15 | - | 1393 | 1390 | 1899 | 2804 | 828 | 1840* | 16 |
| UPPER SQUAMISH RIVER | 3A25P | 1340 | 15 | - | 1016 | 1384 | 1526 | 1796 | 949 | 1515 | 13 |
| NOSTETUKO RIVER | 3A22P | 1500 | 15 | - | 161 | 420 | 563 | 860 | 21 | 382* | 12 |
| UPPER MOSELY CREEK | 3A24P | 1650 | 15 | No Snow | 207 | 236 | 402 | 402 | 0 | 147* | 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

VANCOUVER ISLAND**Snow Survey Measurements**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| JUMP CREEK | 3B23P | 1160 | 15 | - | 476 | 521 | 1474 | 1474 | 251 | 975 | 7 |
| WOLF RIVER (UPPER) | 3B17P | 1490 | 15 | - | 994 | 1649 | 1103 | 1726 | 507 | 1300 | 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**

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| TAHTSA LAKE | 1B02P | 1300 | 15 | - | 671 | 972 | 1765 | 1765 | 732 | 1255 | 11 |

| | | | | | | | | | | | |
|--|-------|------|----|---|-----|-----|-----|-----|-----|------|---|
| BURNT BRIDGE CREEK | 3C08P | 1330 | 15 | - | 206 | 484 | 994 | 994 | 210 | 612* | 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

NORTH EAST

May 15, 2004

PEACE

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| PACIFIC LAKE | 1A11 | 770 | 12 | 56 | 242 | 214 | 694 | 728 | 0 | 341 | 29 |
| AIKEN LAKE | 4A30P | 1040 | 15 | No Snow | | 60 | 168 | 188 | 0 | 50* | 17 |
| PULPIT LAKE | 4A09P | 1310 | 15 | - | 180 | 292 | 369 | 454 | 49 | 230 | 13 |
| PINE PASS | 4A02P | 1400 | 15 | - | 920 | 850 | 1393 | 1471 | 813 | 1073 | 12 |
| KWADACHA RIVER | 4A27P | 1620 | 15 | - | 267 | 311 | 383 | 468 | 109 | 340* | 17 |

A - SAMPLING PROBLEMS WERE ENCOUNTERED

B - EARLY OR LATE SAMPLING

C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED

E - ESTIMATED BASED ON AREAL AVERAGE

* - PERIOD OF RECORD AVERAGE

LIARD

Snow Survey Measurements

WATER EQUIVALENT (mm)

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | 2004 | 2003 | 2002 | Max. | Min. | Normal | No. Years Record |
|--------------------------------------|-------------------|-----------|-------------------|---------------------|------|------|------|------|------|--------|------------------------|
| DEADWOOD RIVER | 4C09P | 1300 | 15 | No Snow | 0 | 19 | 207 | 0 | 44* | 10 | |

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, 2004

STIKINE/TAKU

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--|-------------------|-----------|-------------------|---------------------|-----------------------|------|------|------|------|--------|------------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| KINASKAN LAKE | 4D11P | 1020 | 15 | - | 225 | 259 | 259 | 411 | 0 | 183* | 13 |
| TUMEKA CREEK | 4D10P | 1220 | 15 | - | 293 | 412 | 458 | 771 | 195 | 453* | 14 |
| WADE LAKE | 4D14P | 1370 | 15 | - | 248 | 244 | 296 | 427 | 0 | 269* | 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 | | | | | | | | | | | |

YUKON

Snow Survey Measurements

WATER EQUIVALENT (mm)

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| LOG CABIN | 4E01 | 880 | 16 | 38 | 150A | 0 | 355 | 420 | 0 | 200 | 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

SKEENA/NASS

Snow Survey Measurements

| Drainage Basin and Snow Course | Station Number | Elev m | Date of Survey | Snow Depth cm | WATER EQUIVALENT (mm) | | | | | | No. Years Record |
|--------------------------------|----------------|--------|----------------|---------------|-----------------------|------|------|------|------|--------|------------------|
| | | | | | 2004 | 2003 | 2002 | Max. | Min. | Normal | |
| GRANDUC MINE | 4B12P | 790 | 15 | - | 1421 | 1455 | 1545 | 1545 | 1455 | 1500* | 2 |
| CEDAR-KITEEN | 4B18P | 885 | 15 | - | 116 | 120 | 653 | 653 | 120 | 429* | 3 |
| LU LAKE | 4B15P | 1310 | 15 | No Snow | 0 | 416 | 416 | 0 | 133* | 5 | |
| TSAI CREEK | 4B17P | 1360 | 15 | - | 810 | 975 | 1909 | 1909 | 953 | 1245* | 6 |
| HUDSON BAY MTN. | 4B03A | 1480 | 14 | 44 | 184 | 354 | 701 | 752 | 160 | 441 | 31 |
| SHEDIN CREEK | 4B16P | 1480 | Not Measured | | | 713 | 1155 | 1159 | 660 | 945* | 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