

**YUKON SNOW SURVEY
BULLETIN & WATER
SUPPLY FORECAST**
May 1, 2011

Prepared and issued by:
Water Resources Branch
Environment Yukon



PREFACE

The Yukon Snow Survey Bulletin and Water Supply Forecast is prepared and issued three times annually - after March 1, April 1 and May 1 - by Environment Yukon's Water Resources Branch. The bulletin provides a summary of winter meteorological and streamflow conditions for Yukon, as well as current snow depth and snow water equivalent observations for 56 locations. This information is used to make projections of total volume runoff for the summer period, and an estimate of peak flow for the main river basins and sub-basins including the: upper and lower Yukon, Pelly, Stewart, Liard, Alsek, Porcupine and Peel Rivers. Information about the bulletin, snowpack conditions or streamflow projections can be obtained by contacting:

| | |
|--|--|
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NETWORK CHANGES for 2011

There have been no network changes in 2011. This bulletin can now be accessed on the web at http://environmentyukon.gov.yk.ca/monitoringenvironment/snow_survey.php

ISSN 1705-883X

It is recommended that reference to this report be made in the following form:

Yukon Snow Survey Bulletin and Water Supply Forecast
Water Resources Branch
Department of Environment
Government of Yukon
Box 2703, Whitehorse, Yukon Y1A 2C6

ACKNOWLEDGMENTS

The Yukon Snow Survey Bulletin and Water Supply Forecast is published three times annually, after March 1, April 1, and May 1, as part of the Yukon Snow Survey Program, by the Water Resources Branch, Department of Environment, Government of Yukon.

Other agencies that contribute significantly to the Snow Survey Program by providing data, assistance and information for the bulletin are:

Meteorologist, Wildland Fire Management, Yukon Department of Community Services, Whitehorse

Officer in Charge, Water Survey of Canada, Whitehorse.

Agencies cooperating with Environment Yukon in the Snow Survey Program are:

Client Service and Inspections Branch, Yukon Department of Energy Mines and Resources

Information Management and Technology, Yukon Department of Environment

B.C. Ministry of Environment, Water Stewardship Division

USDA Natural Resources Conservation Service

Yukon Department of Highways and Public Works

Parks Canada

The Yukon Energy Corporation

YUKON TERRITORY SNOWPACK CONDITIONS AND RUNOFF PROJECTION

WEATHER

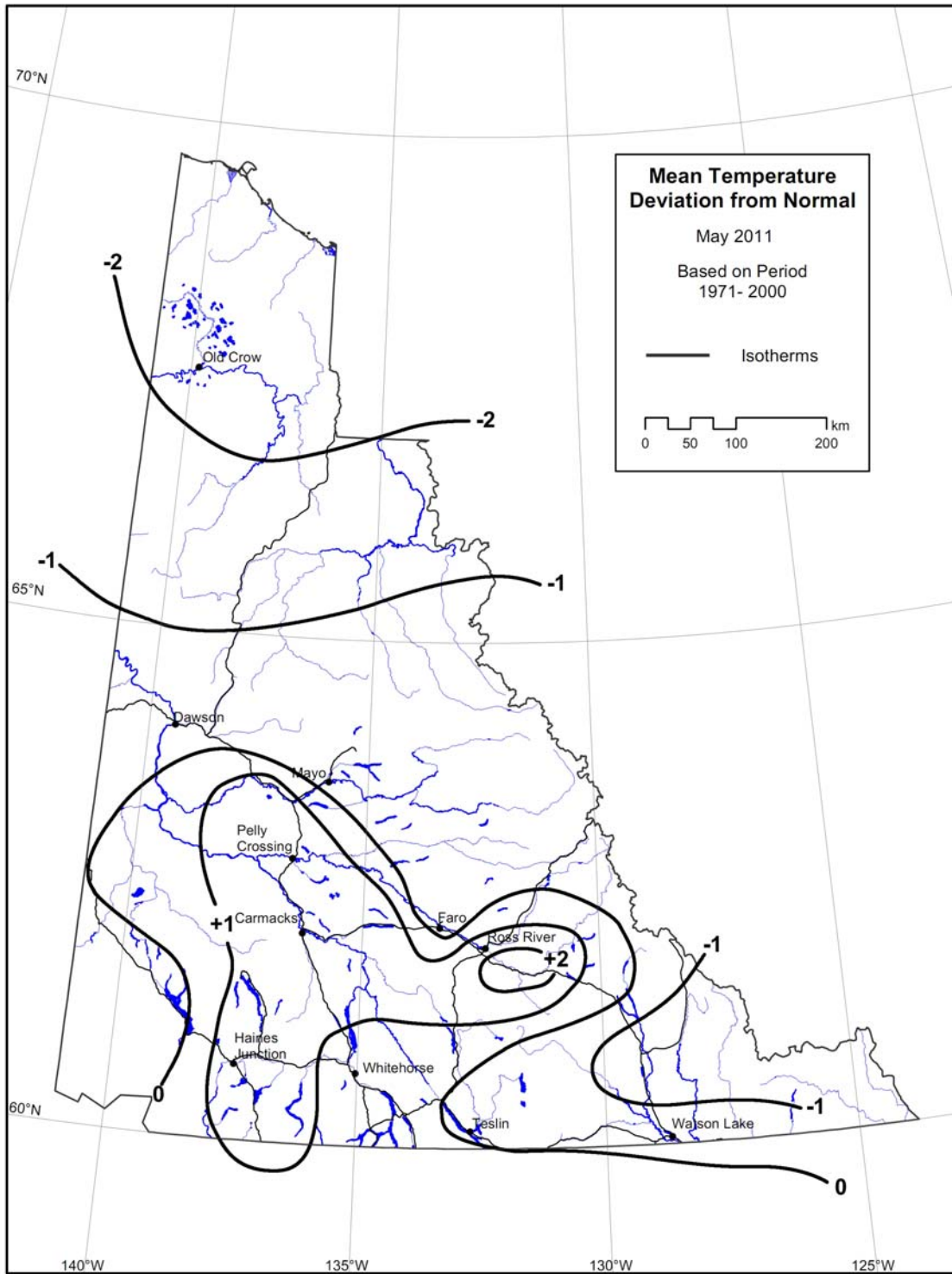
April temperatures throughout Yukon were generally near normal. Temperature deviations ranged from one degree above normal in south central Yukon to one degree below normal in south eastern regions. Northern Yukon experienced temperatures that were one to two degrees below normal. April precipitation was well below normal throughout the Territory with the exception of north central and northwestern regions which were normal.

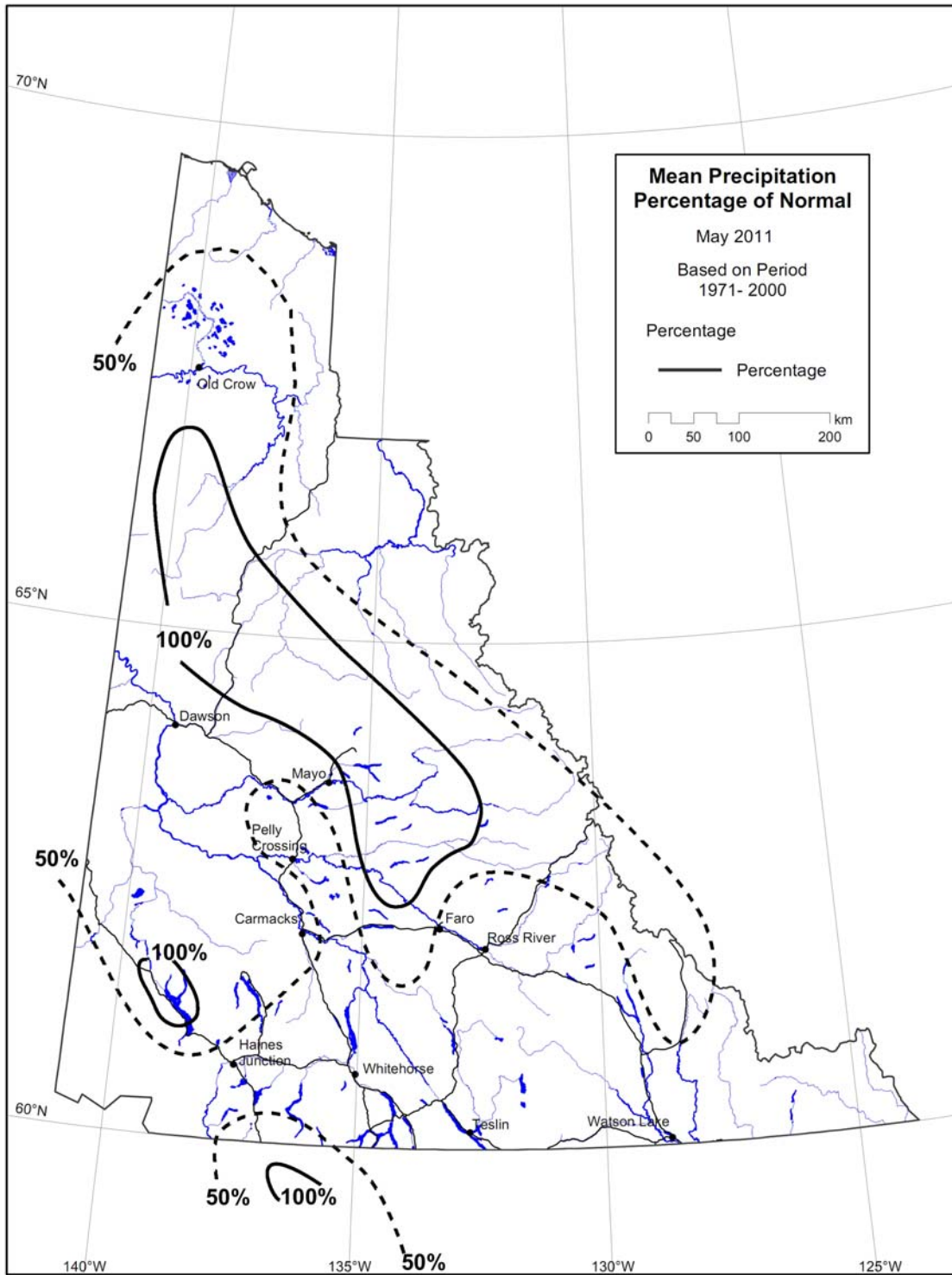
SNOWPACK

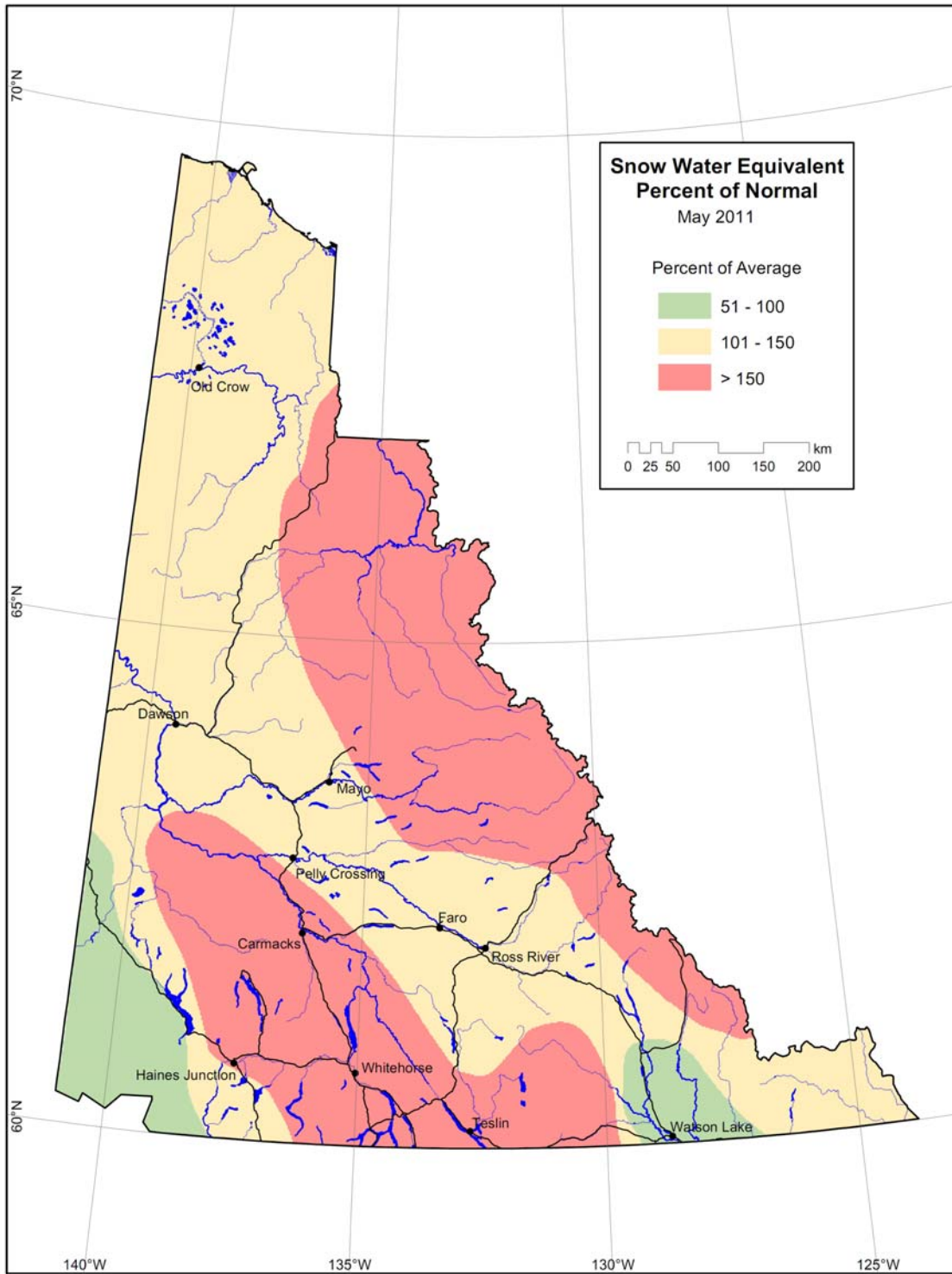
The May 1 Yukon snowpack is well above normal throughout much of the Territory with the exception of the Liard basin and southwestern Yukon which are below normal.

STREAMFLOW

Streamflow conditions within Yukon are generally below normal throughout most of Yukon with the exception of northern Yukon which is above normal for May 1st. Streamflow during this period represents winter baseflow, which provides an indication of winter groundwater contributions.





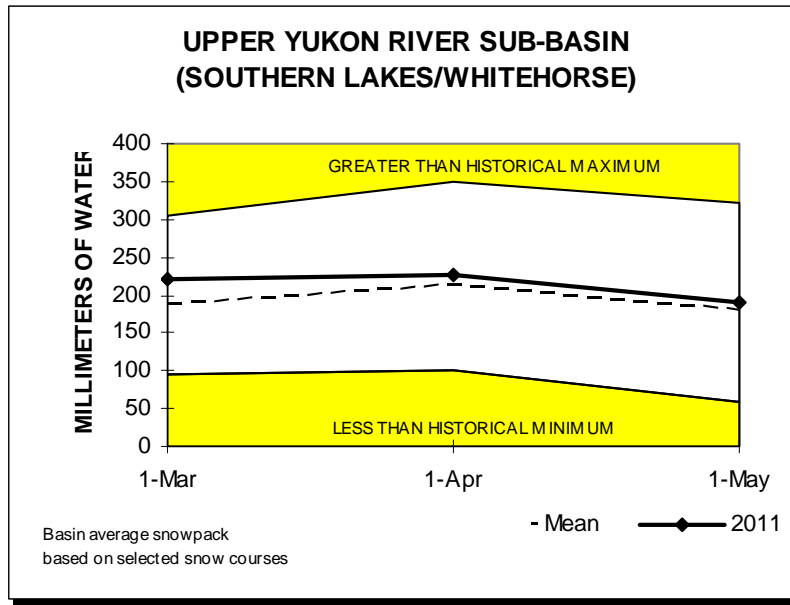


YUKON RIVER BASIN

Snowpack conditions in the Yukon River Basin are generally well above normal with the exception of southeastern portions of the basin which are near normal.

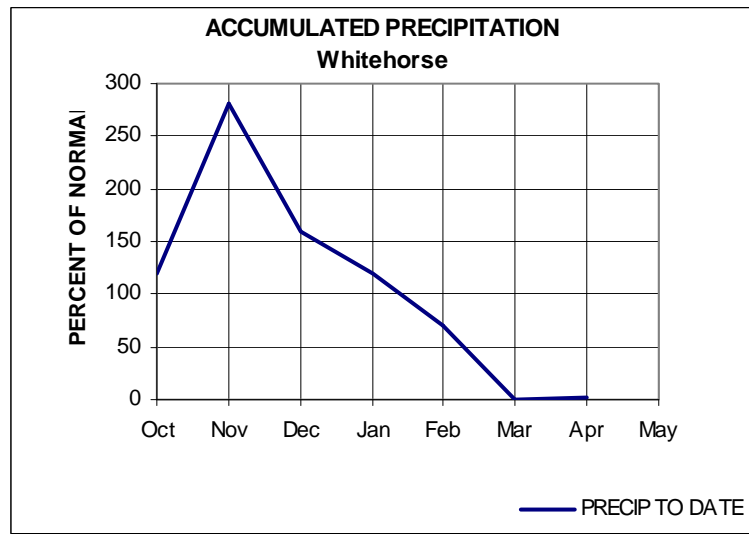
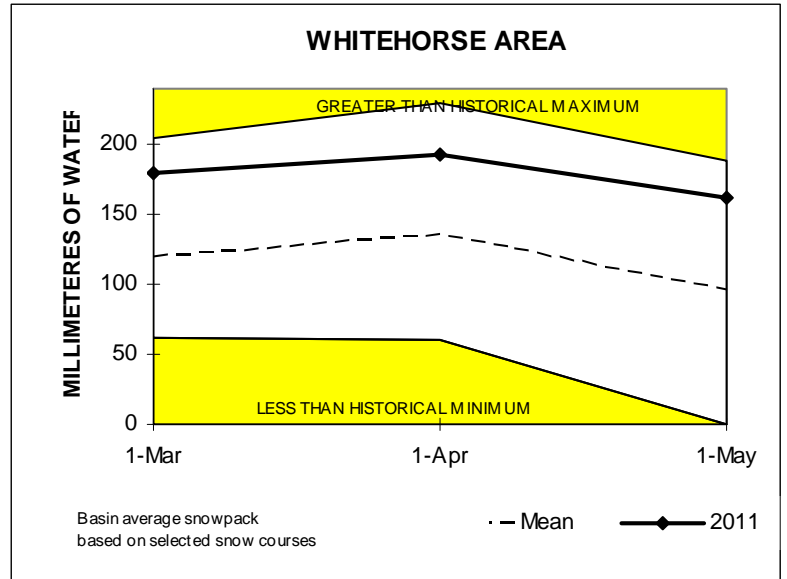
UPPER YUKON RIVER SUB-BASIN (SOUTHERN LAKES)

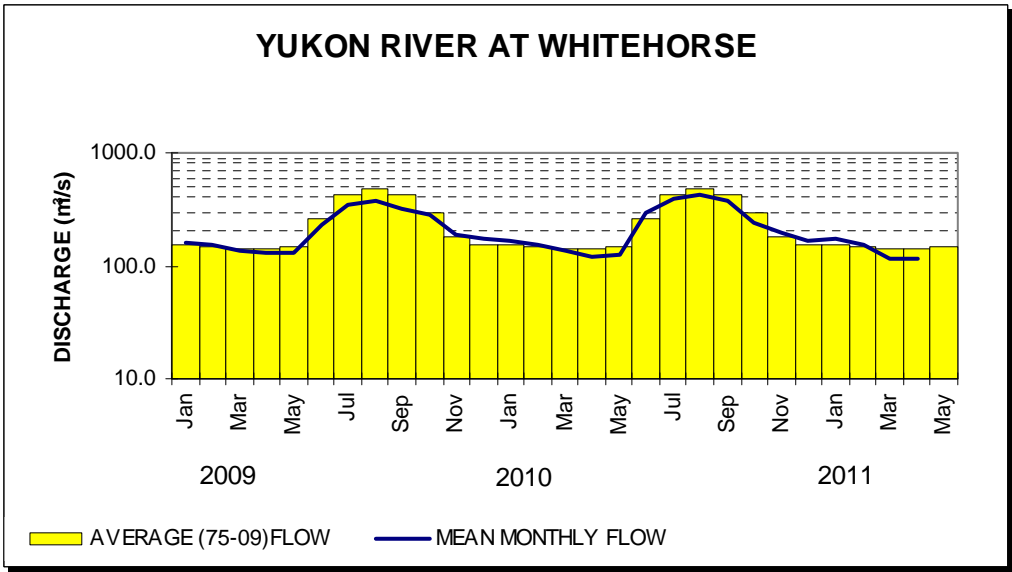
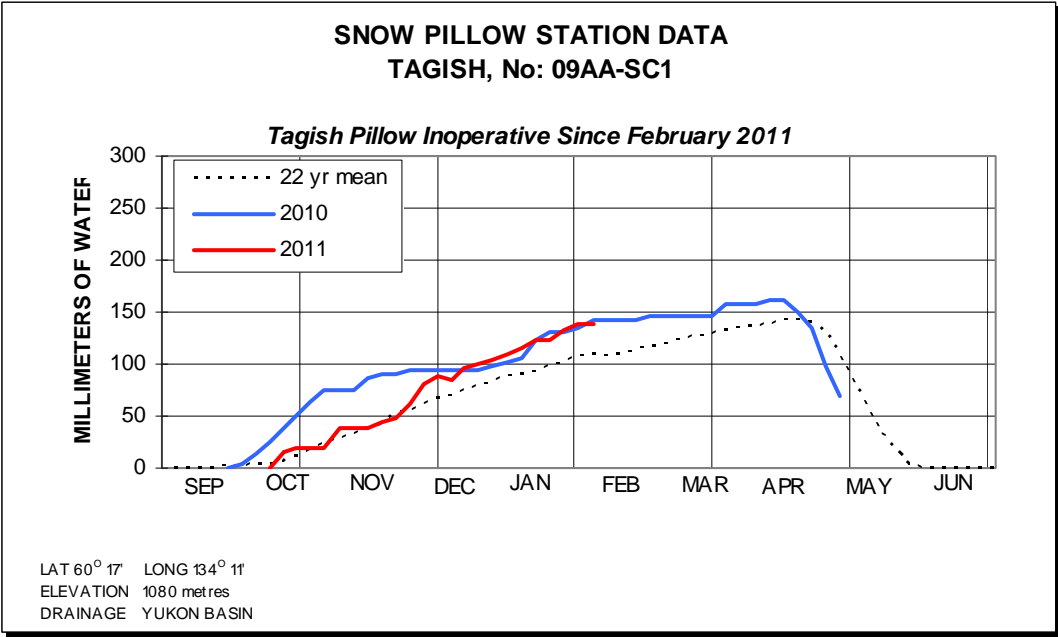
Snowpack conditions in the Upper Yukon River watershed are near normal. Values range from no snow at Atlin to greater than 174 percent of normal at Tagish. A basin wide average has been estimated to be 106 percent of normal.



WHITEHORSE AREA

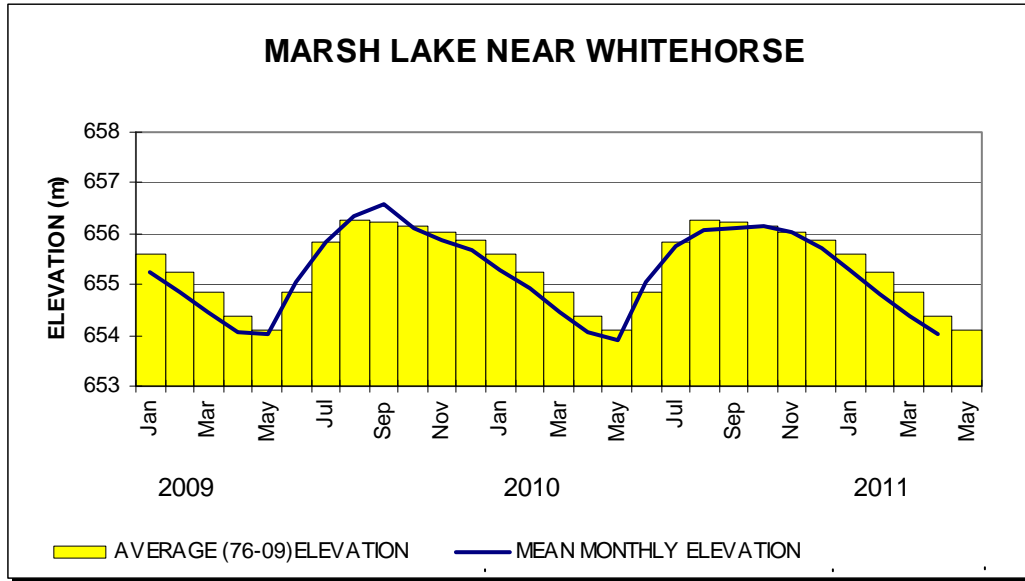
Snowpack conditions in the Whitehorse area are well above normal for May 1st. Values range from 167 percent of normal at the Whitehorse Airport to 172 percent of normal at Mt McIntyre. An area wide average is estimated to be 170 percent of normal.





YUKON RIVER and MARSH LAKE

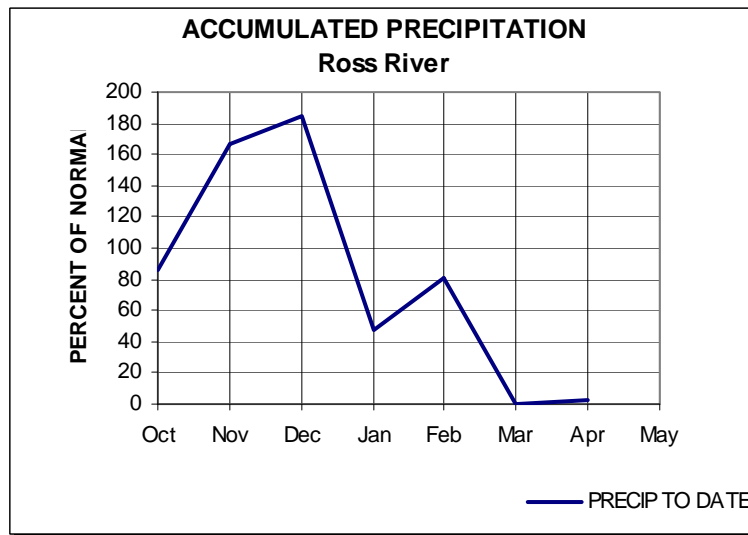
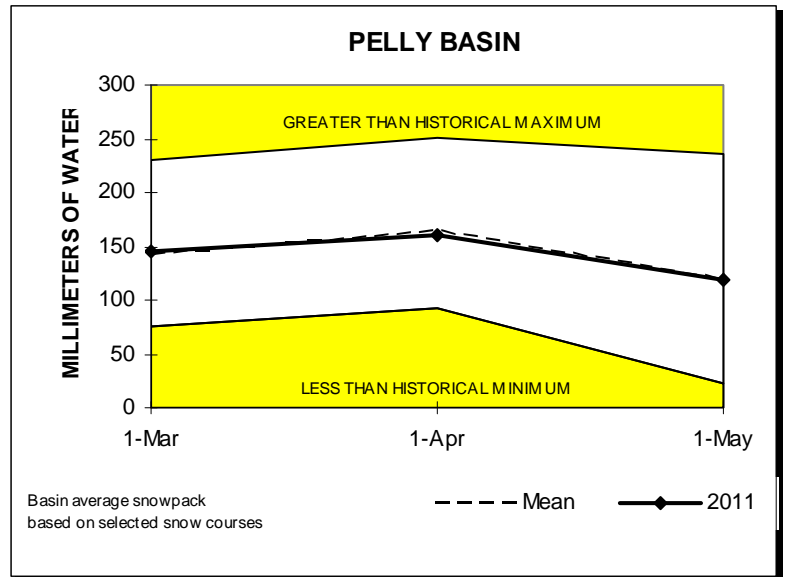
The elevation of Marsh Lake during April was 654.049 m or 0.207 m below normal. Yukon River at Whitehorse mean discharge during March was 70 percent of normal. Given normal summer meteorological conditions, volume runoff and peak flows for the season are expected to be 110 percent and 110 percent of normal respectively.

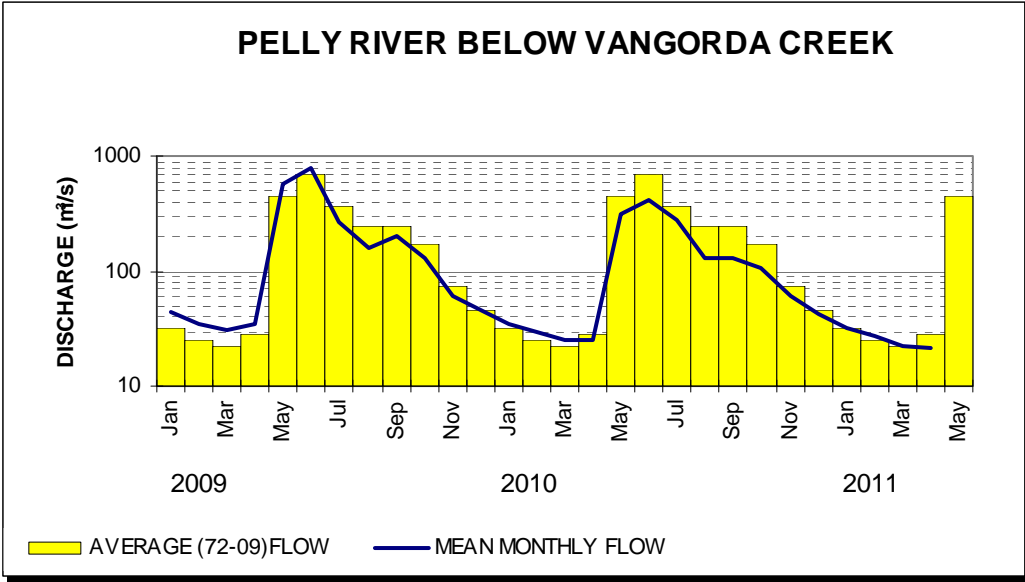
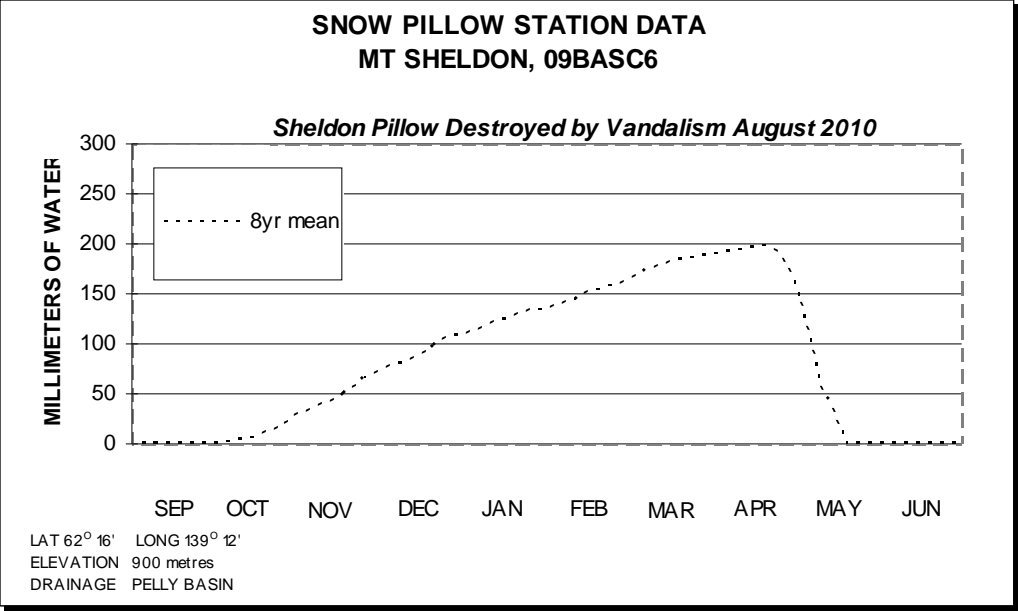


PELLY RIVER SUB-BASIN

Snowpack conditions in the Pelly River watershed are slightly below normal. Values of snow water equivalent range from 55 percent of normal at Twin Creeks to 159 percent of normal at Hoole River. A basin wide average has been estimated to be 93 percent of normal.

Mean April streamflow for the watershed was 74 percent of normal as indicated by the Pelly River below Vangorda Creek. Given normal summer meteorological conditions, volume runoff and peak flows are expected to be 105 percent and 100 percent of normal respectively.

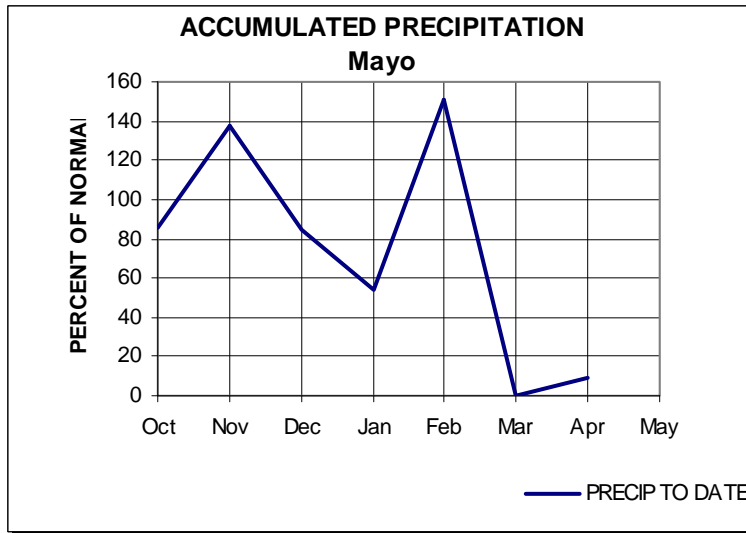
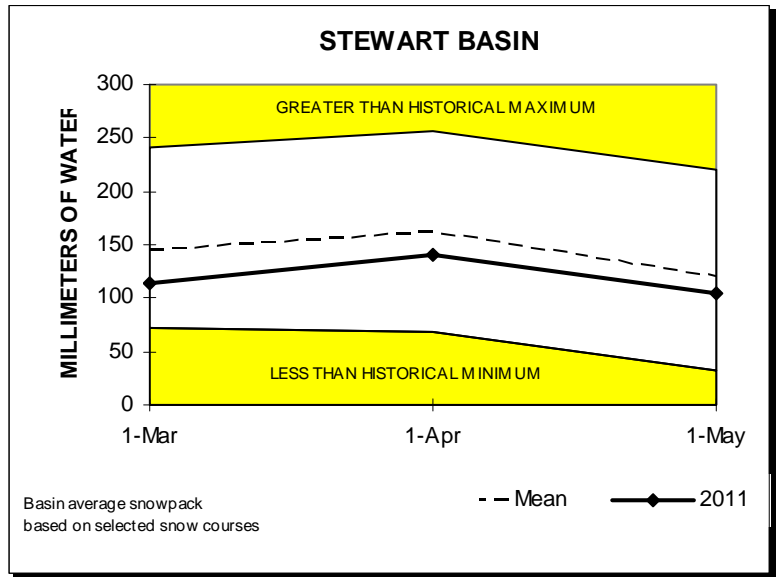


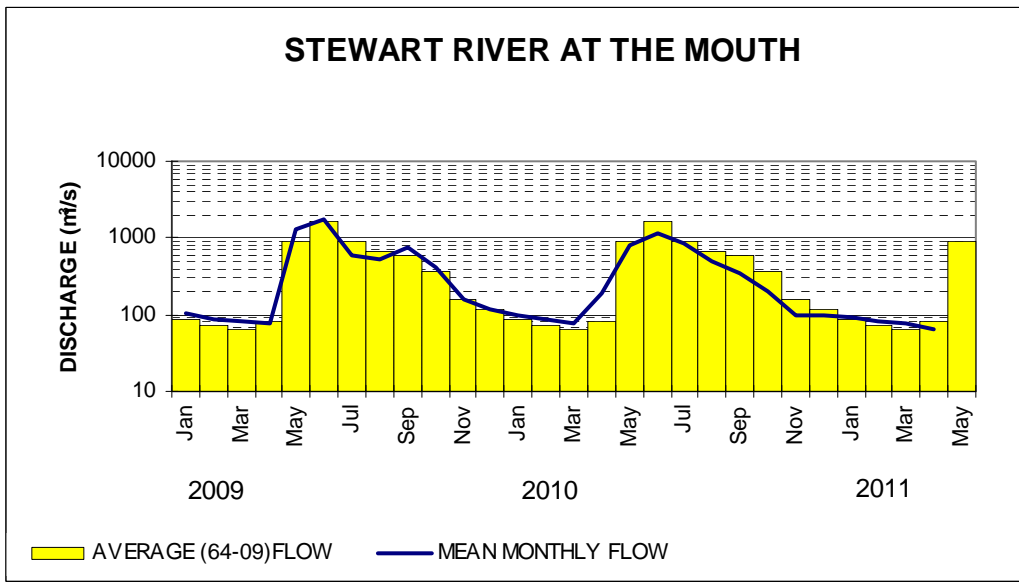
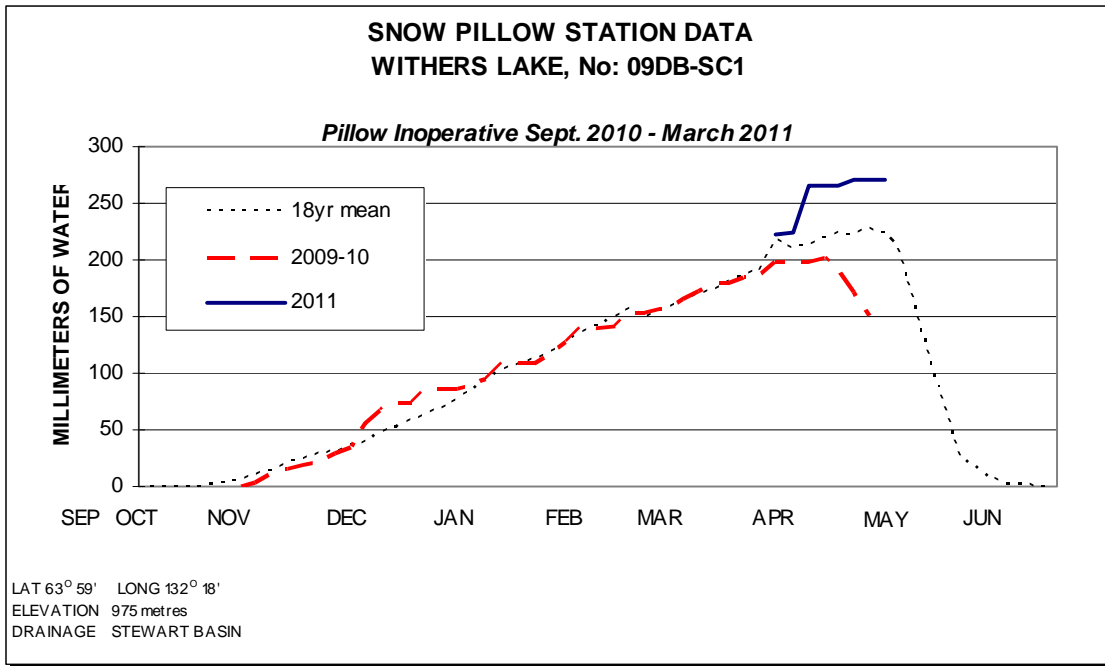


STEWART RIVER SUB-BASIN

Snowpack conditions in the Stewart River watershed are below normal for April 1st. Values of snow water equivalent range from no snow at the Mayo Airport to 111 percent of normal at Plata Airstrip. A basin wide average has been estimated to be 88 percent of normal.

Mean April streamflow for the watershed was 78 percent of normal as indicated by the Stewart River at the Mouth. Given normal summer meteorological conditions, volume runoff and peak flows for the season are expected to be 100 percent and 95 percent of normal respectively.

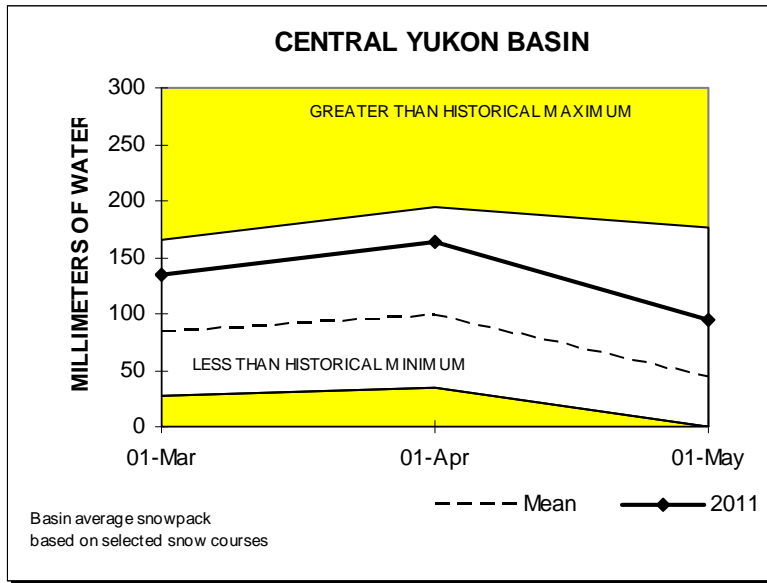




CENTRAL YUKON RIVER BASIN (CARMACKS AREA)

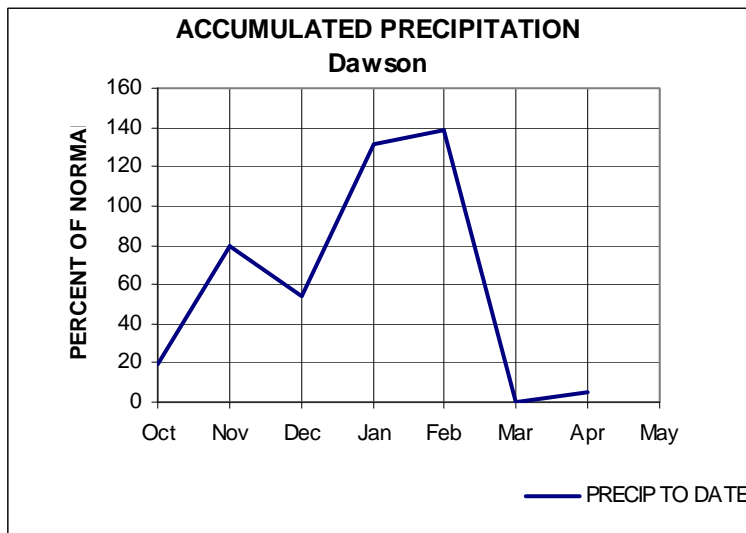
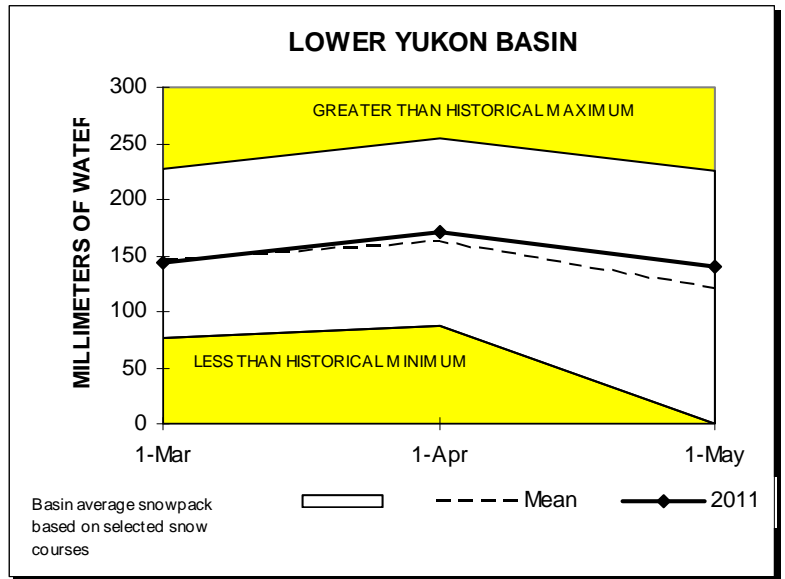
Snowpack conditions in the Carmacks area are well above normal for April 1st. Values of snow water equivalent range from

no snow at Williams Creek and MacIntosh to over 300 percent of normal at Mount Nansen. An area wide average has been estimated to be 223 percent of normal. Record high snowpacks were observed at Mount Berdoe and Mount Nansen.



LOWER YUKON RIVER BASIN (DAWSON AREA)

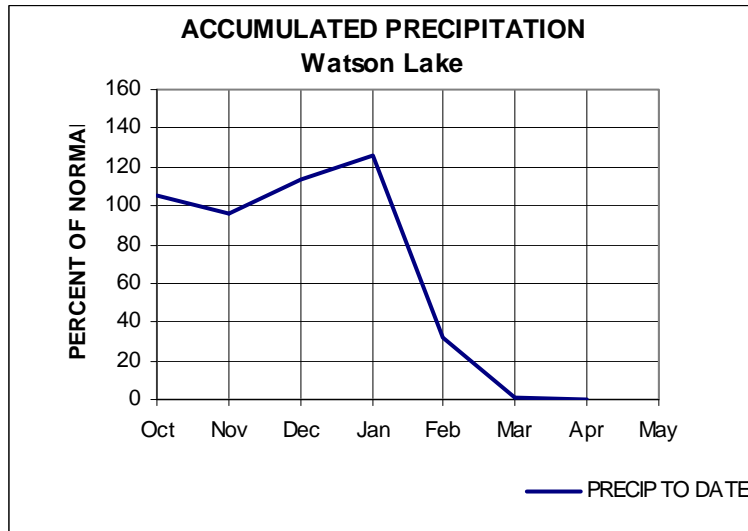
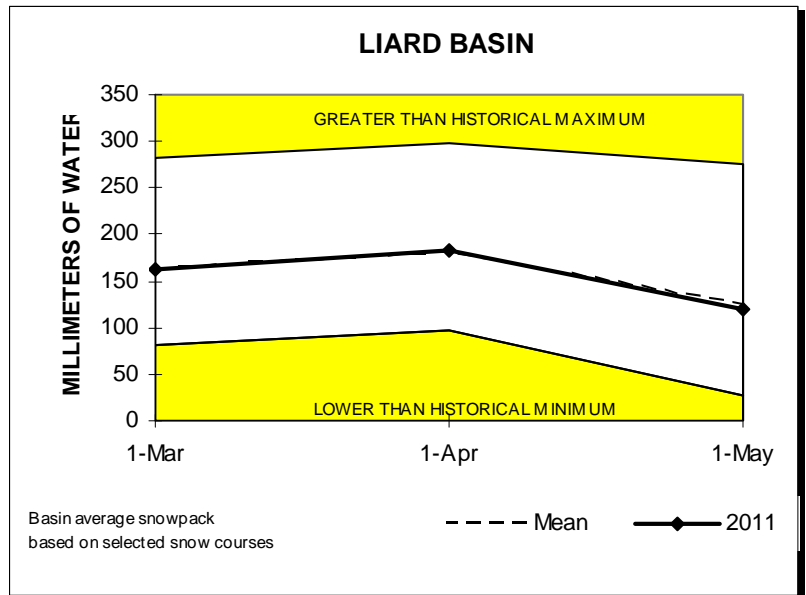
Snowpack conditions in the Dawson area are above normal for May 1st. Values of snow water equivalent range from 81 percent of normal at Grizzly to 139 percent of normal at Midnight Dome. An area wide average has been estimated to be 116 percent of normal.



LIARD RIVER BASIN

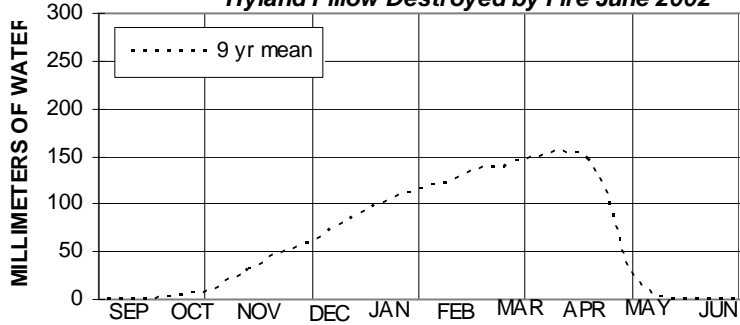
Snowpack conditions within the Liard River watershed are above normal. Values of snow water equivalent range from 71 percent of normal at Frances Lake to 151 percent of normal at Hyland River. A basin wide average has been estimated to be 111 percent of normal.

Mean April streamflow for the Liard River upstream of Upper Liard was 81 percent of normal. Given normal summer meteorological conditions, volume runoff and peak flows for the season are expected to be 98 percent and 104 percent of normal.



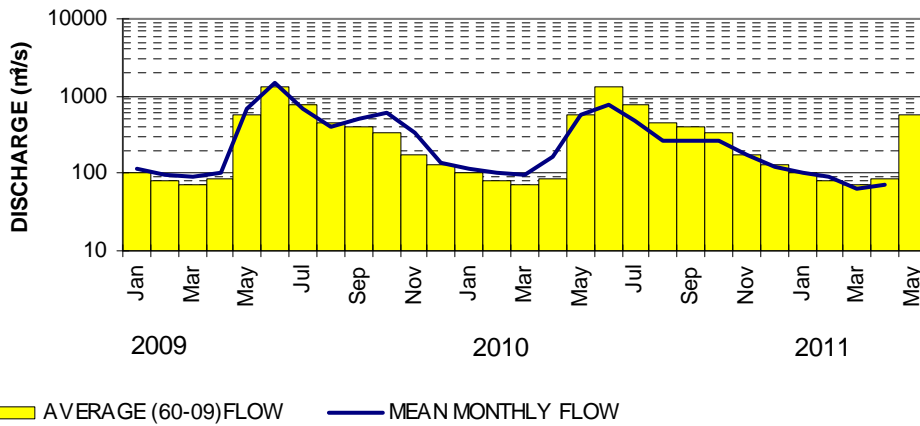
**SNOW PILLOW STATION DATA
HYLAND RIVER, No: 10AD-SC1**

Hyland Pillow Destroyed by Fire June 2002



LAT 61° 31' LONG 128° 16'
ELEVATION 855 metres
DRAINAGE LIARD BASIN

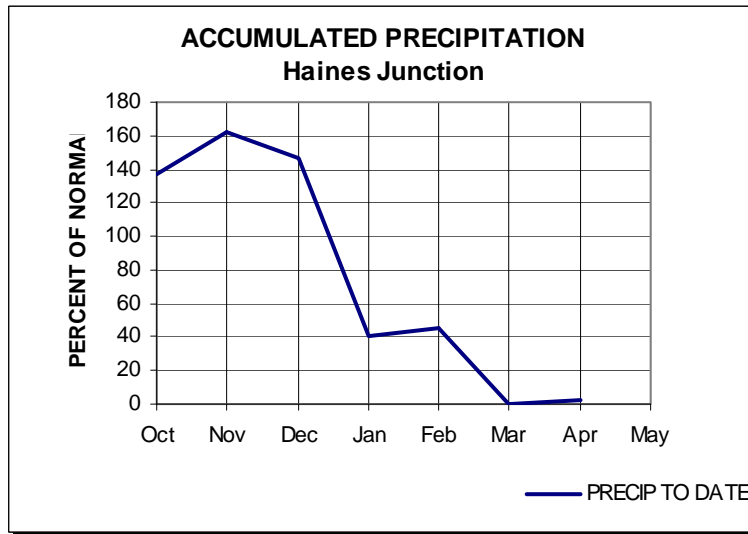
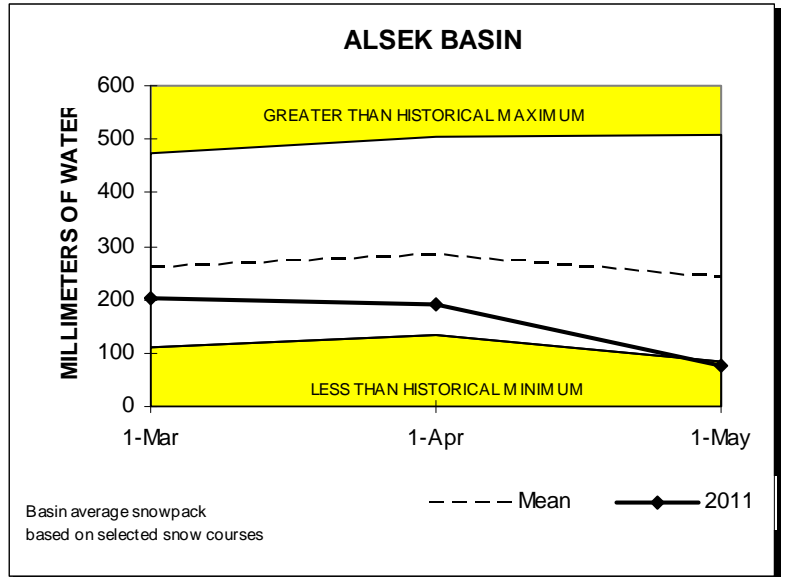
LIARD RIVER AT UPPER CROSSING

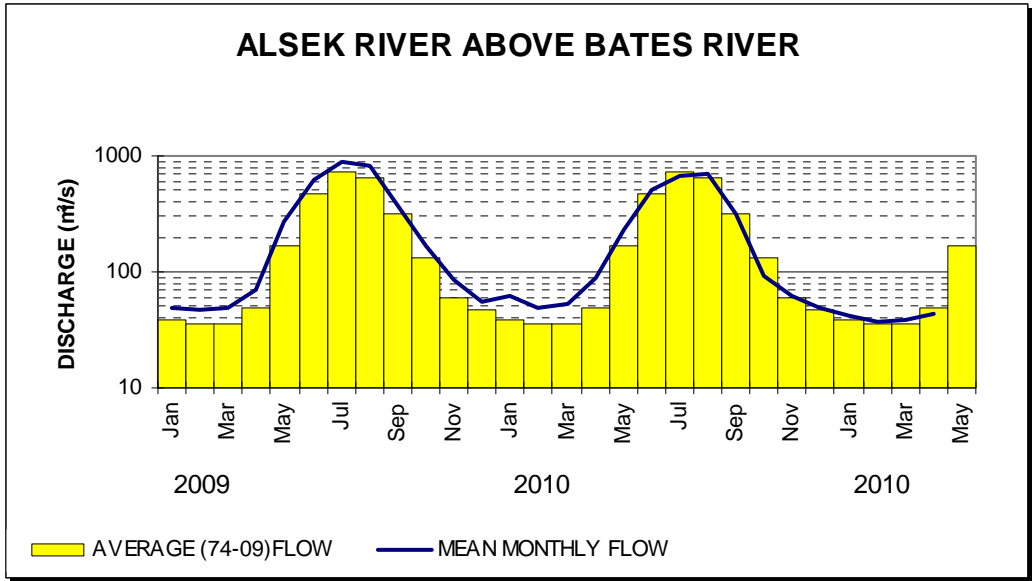


ALSEK RIVER BASIN

Snowpack conditions within the Alsek River watershed are well above normal for May 1st. Values of snow water equivalent range from 106 percent of normal at Alder Creek to over 300 percent of normal at Canyon Creek. A basin wide average has been estimated to be 157 percent of normal.

Mean monthly streamflow for March as indicated by the Alsek River above Bates River was 92 percent of normal. The Alsek River is primarily a glacial regime type, which is largely dependent on summer temperatures. Given normal summer meteorological conditions however, volume runoff and peak flows for the season are expected to be 115 and 115 percent of normal respectively.

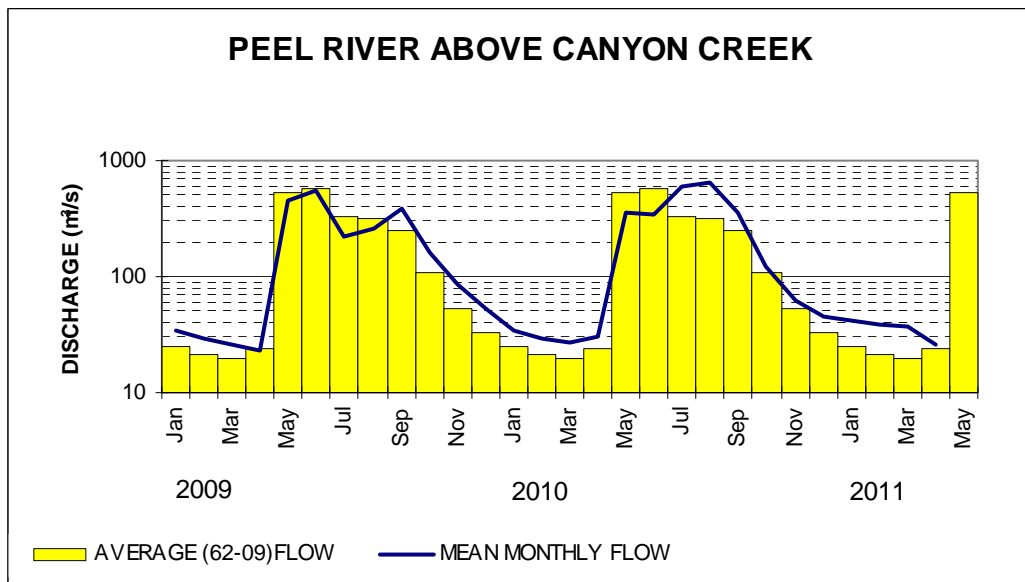
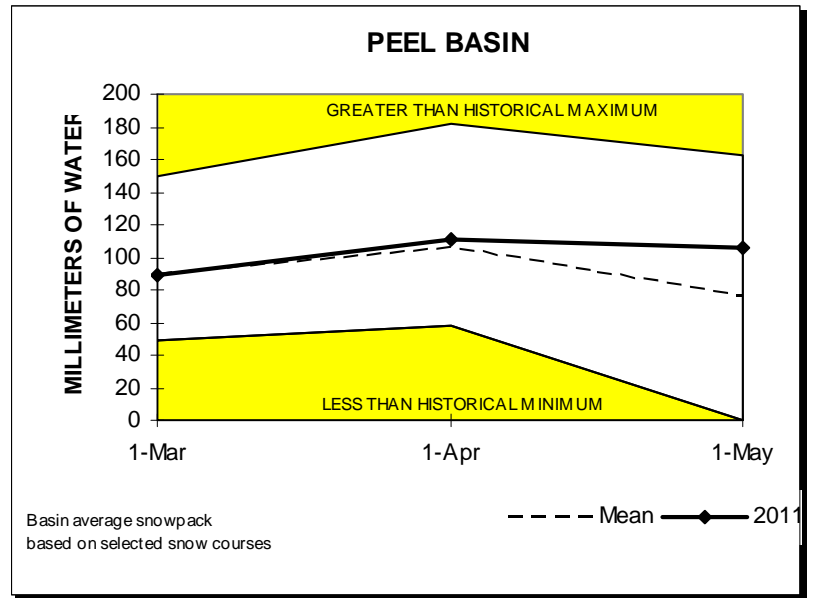




PEEL RIVER BASIN

Snowpack conditions in the Peel River watershed are above normal with values of snow water equivalent ranging from 130 percent of normal at Ogilvie to 150 percent of normal at Blackstone. A basin wide average has been estimated to be 140 percent of normal.

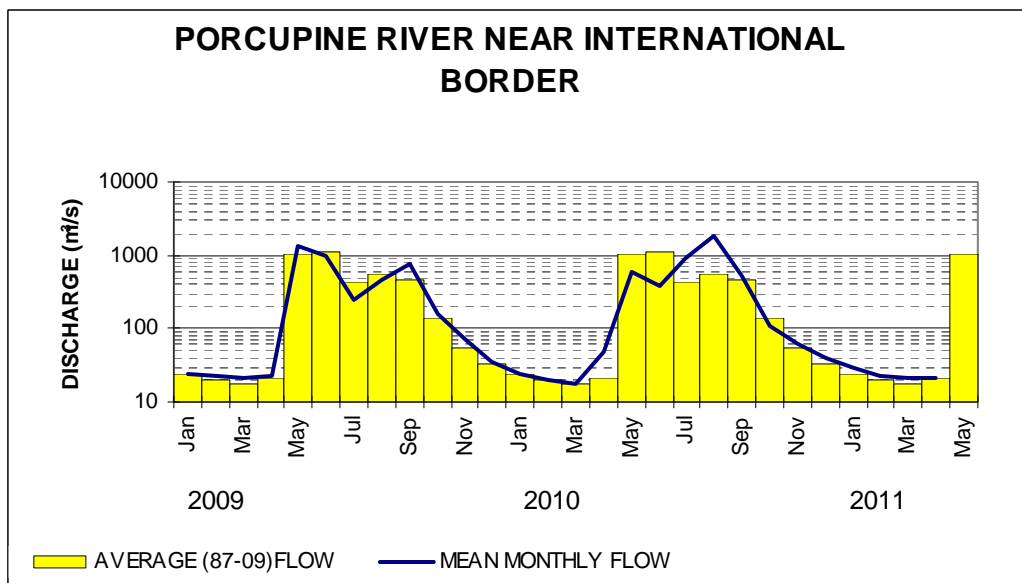
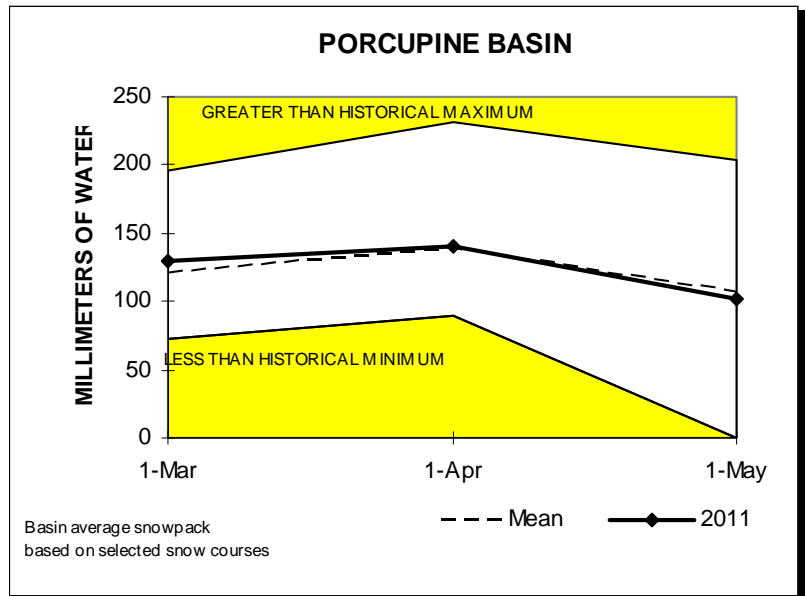
Mean monthly streamflow for April as indicated by the Peel River above Canyon Creek station was 107 percent of normal. Peel River volume and peak flow forecasts are not available at this time.



PORCUPINE RIVER BASIN

Snowpack conditions in the Porcupine River watershed are above normal with values of snow water equivalent ranging from 128 percent of normal at Eagle River to 143 percent of normal at Eagle Plains. A basin wide average has been estimated to be 135 percent of normal.

Mean March streamflow for the basin as indicated by the Porcupine River near the International Boundary is 97 percent of normal. Porcupine River volume and peak flow forecasts are not available at this time.



Drainage Basin and Snow Course

For Sample Date: 2011-05-01

| Name | Number | Elev (m) | Date of Survey | This Year | | Water Content | | Yrs of Rec |
|--------------------------|------------|-------------|-------------------|-----------------------|--------------------------|----------------------|-----------------|------------------|
| | | | | Snow Depth (cm) | Water Content (mm) | Last Year (mm) | Average (mm) | |
| Alsek River Basin | | | | | | | | |
| Canyon Lake | 08AA-SC01 | 1160 | 2011/04/28 | 53 | 160 | 63 | 35 | 34 |
| Alder Creek | 08AA-SC02 | 768 | 2011/04/27 | 34 | 84 | 0 | 82 | 30 |
| Aishihik Lake | 08AA-SC03 | 945 | 2011/04/28 | 47 | 135 | 9 | 44 | 17 |
| Haines Junction Farm | 08AA-SC04 | 610 | 2011/04/28 | 31 | 87 | 28 | 49 | 11 |
| Clay Creek | 08AB-SC02 | 670 | No Surv | | | 580 | 630 | 30 |
| Summit | 08AB-SC03 | 1000 | 2011/04/28 | 92 | 222 | 249 | 210 | 31 |
| Profile Mountain | 08AB-SC04 | 900 | No Surv | | | 244 | 261 | 23 |
| Yukon River Basin | | | | | | | | |
| Tagish | 09AA-SC01 | 1080 | 2011/04/28 | 74 | 198 | 123 | 114 | 35 |
| Montana Mountain | 09AA-SC02 | 1020 | 2011/04/27 | 72 | 190 | 85 | 114 | 35 |
| Log Cabin (B.C.) | 09AA-SC03 | 884 | 2011/04/27 | 112 | 386 | 345 | 342 | 53 |
| Atlin (B.C.) | 09AA-SC04 | 730 | 2011/05/01 | 0 | 0 | 0 | 48 | 44 |
| Mt McIntyre B | 09AB-SC01B | 1097 | 2011/04/29 | 78 | 220 | 156 | 128 | 35 |
| Whitehorse Airport | 09AB-SC02 | 700 | 2011/04/29 | 14 | 40 | 0 | 23 | 44 |
| Meadow Creek | 09AD-SC01 | 1235 | 2011/04/28 | 101 | 179 | 294 | 280 | 35 |
| Jordan Lake | 09AD-SC02 | 930 | 2011/04/28 | 32 | 65 | 23 | 88 | 24 |
| Morley Lake | 09AE-SC01 | 824 | 2011/04/27 | 39 | 84 | 44 | 85 | 24 |
| Mount Berdoe | 09AH-SC01 | 1035 | 2011/04/27 | 73 | 168 | 0 | 59 | 35 |
| Satasha Lake | 09AH-SC03 | 1106 | 2011/04/26 | 0 | 0 | 0 | 30 | 23 |
| Williams Creek | 09AH-SC04 | 914 | 2011/04/26 | 0 | 0 | 0 | 46 | 15 |
| Twin Creeks | 09BA-SC02 | 900 | 2011/04/27 | 52 | 82 | 0 | 146 | 34 |
| Hoole River | 09BA-SC03 | 1036 | 2011/04/28 | 61 | 140 | 0 | 86 | 34 |
| Burns Lake | 09BA-SC04 | 1112 | 2011/04/28 | 84 | 225 | 92 | 212 | 25 |
| Finlayson Airstrip | 09BA-SC05 | 988 | 2011/04/28 | 34 | 99 | 0 | 49 | 24 |
| Fuller Lake | 09BB-SC03 | 1126 | 2011/04/27 | 85 | 211 | 128 | 206 | 25 |
| Russell Lake | 09BB-SC04 | 1060 | 2011/04/27 | 107 | 282 | 93 | 215 | 24 |
| Rose Creek | 09BC-SC01 | 1080 | 2011/04/28 | 35 | 90 | 0 | 29 | 17 |
| Mount Nansen | 09CA-SC01 | 1021 | 2011/04/26 | 56 | 118 | 0 | 17 | 34 |
| MacIntosh | 09CA-SC02 | 1160 | 2011/04/26 | 0 | 0 | 0 | 49 | 34 |
| Burwash Airstrip | 09CA-SC03 | 810 | 2011/04/28 | 29 | 52 | 0 | 7 | 34 |
| Duke River | 09CA-SC05 | 1310 | No Surv | | | 69 | 72 | 21 |
| Beaver Creek | 09CB-SC01 | 655 | 2011/04/28 | 33 | 59 | 0 | 29 | 36 |
| Chair Mountain | 09CB-SC02 | 1067 | 2011/04/29 | 47 | 108 | 0 | 34 | 8 |
| White River | 09CB-SC03 | 823 | No Surv | | | N.S. | 0 | 2 |
| Casino Creek | 09CD-SC01 | 1065 | 2011/04/26 | 82 | 182 | 106 | 119 | 33 |
| Pelly Farm | 09CD-SC03 | 472 | No Surv | | | 0 | 17 | 25 |

Printed on 10 May 2011 from the Environment Yukon Snow Survey System
Code "E" - Estimate, Code "B" - Survey date is outside of valid sampling range

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Drainage Basin and Snow Course

For Sample Date: 2011-05-01

| Name | Number | Elev (m) | Date of Survey | This Year | | Water Content | | Yrs of Rec |
|------------------------------|------------|-------------|-------------------|-----------------------|--------------------------|----------------------|-----------------|------------------|
| | | | | Snow Depth (cm) | Water Content (mm) | Last Year (mm) | Average (mm) | |
| Yukon River Basin | | | | | | | | |
| Plata Airstrip | 09DA-SC01 | 830 | 2011/04/27 | 77 | 167 | 0 | 146 | 32 |
| Arrowhead Lake | 09DA-SC02 | 1120 | No Surv | | | 68 | 198 | 20 |
| Withers Lake | 09DB-SC01 | 975 | 2011/04/27 | 108 | 274 | 146 | 234 | 25 |
| Rackla Lake | 09DB-SC02 | 1040 | 2011/04/27 | 87 | 222 | 124 | 205 | 24 |
| Mayo Airport A | 09DC-SC01A | 540 | 2011/04/27 | 0 | 0 | 0 | 13 | 40 |
| Mayo Airport B | 09DC-SC01B | 540 | 2011/04/27 | 0 | 0 | 0 | 12 | 23 |
| Edwards Lake | 09DC-SC02 | 830 | 2011/04/27 | 73 | 163 | 81 | 156 | 24 |
| Calumet | 09DD-SC01 | 1310 | 2011/04/27 | 61 | 148 | 133 | 194 | 30 |
| King Solomon Dome | 09EA-SC01 | 1080 | 2011/04/26 | 53 | 140 | 0 | 104 | 36 |
| Grizzly Creek | 09EA-SC02 | 975 | 2011/04/28 | 43 | 105 | 158 | 126 | 36 |
| Midnight Dome | 09EB-SC01 | 855 | 2011/04/27 | 66 | 174 | 98 | 126 | 36 |
| Porcupine River Basin | | | | | | | | |
| Riff's Ridge | 09FA-SC01 | 650 | 2011/04/27 | 69 | 165 | 90 | 115 | 24 |
| Eagle Plains | 09FB-SC01 | 710 | 2011/04/27 | 71 | 168 | 0 | 126 | 26 |
| Eagle River | 09FB-SC02 | 340 | 2011/04/27 | 60 | 139 | 0 | 93 | 26 |
| Old Crow | 09FD-SC01 | 299 | No Surv | | | 0 | 87 | 28 |
| Liard River Basin | | | | | | | | |
| Watson Lake Airport | 10AA-SC01 | 685 | 2011/04/26 | 32 | 64 | 0 | 46 | 46 |
| Tintina Airstrip | 10AA-SC02 | 1067 | 2011/04/28 | 69 | 151 | 75 | 180 | 34 |
| Pine Lake Airstrip | 10AA-SC03 | 995 | 2011/04/27 | 65 | 160 | 154 | 193 | 35 |
| Ford Lake | 10AA-SC04 | 1110 | 2011/04/28 | 61 | 147 | 95 | 170 | 23 |
| Frances River | 10AB-SC01 | 730 | 2011/04/26 | 37 | 64 | 16 | 88 | 36 |
| Hyland River | 10AD-SC01 | 855 | 2011/04/27 | 48 | 160 | 22 | 104 | 35 |
| Peel River Basin | | | | | | | | |
| Blackstone River | 10MA-SC01 | 920 | 2011/04/28 | 48 | 111 | 0 | 72 | 35 |
| Ogilvie River | 10MA-SC02 | 595 | 2011/04/28 | 52 | 100 | 0 | 75 | 34 |
| Bonnet Plume Lake | 10MB-SC01 | 1120 | 2011/04/27 | 81 | 190 | 126 | 197 | 25 |
| Alaska Snow Courses | | | | | | | | |
| Eaglecrest | 08AK-SC01 | 305 | 2011/04/28 | 127 | 559 | 348 | 421 | 27 |
| Moore Creek Bridge | 08AK-SC02 | 700 | 2011/04/29 | 127 | 452 | 546 | 508 | 19 |

INDEX OF YUKON SNOW COURSES

| NAME | NUMBER | ELEVATION (m) | LATITUDE | LONGITUDE | AGENCY |
|--------------------------|-----------|---------------|----------|-----------|--------|
| YUKON RIVER BASIN | | | | | |
| Tagish | 09AA-SC1 | 1080 | 60°17' | 134°11' | 2 |
| Montana Mountain | 09AA-SC2 | 1020 | 60°08' | 134°44' | 2 |
| Log Cabin (B.C.) | 09AA-SC3 | 884 | 59°46' | 134°58' | 2 |
| Atlin (B.C.) | 09AA-SC4 | 730 | 59°34' | 133°42' | 3 |
| Mt. McIntyre (B) | 09AB-SC1B | 1097 | 60°39' | 135°08' | 1 |
| Whitehorse Airport | 09AB-SC2 | 700 | 60°42' | 135°04' | 1 |
| Meadow Creek | 09AD-SC1 | 1235 | 60°35' | 133°05' | 2 |
| Jordan Lake | 09AD-SC2 | 930 | 60°52' | 132°50' | 1 |
| Morley Lake | 09AE-SC1 | 824 | 60°00' | 132°07' | 2 |
| Mount Berdoe | 09AH-SC1 | 1035 | 62°02' | 136°14' | 2 |
| Satasha Lake | 09AH-SC3 | 1106 | 61°29' | 136°16' | 2 |
| Williams Creek | 09AH-SC4 | 914 | 60°21' | 136°43' | 2 |
| Twin Creeks | 09BA-SC2 | 900 | 62°37' | 131°16' | 1 |
| Hoole River | 09BA-SC3 | 1036 | 61°32' | 131°36' | 1 |
| Burns Lake | 09BA-SC4 | 1112 | 62°17' | 129°57' | 1 |
| Finlayson Airstrip | 09BA-SC5 | 988 | 61°42' | 130°46' | 1 |
| Fuller Lake | 09BB-SC3 | 1126 | 62°58' | 130°46' | 1 |
| Rose Creek | 09BC-SC01 | 1080 | 62°20' | 133°23' | 1 |
| Russell Lake | 09BB-SC4 | 1060 | 63°12' | 133°29' | 1 |
| Mount Nansen | 09CA-SC1 | 1021 | 62°02' | 137°03' | 2 |
| MacIntosh | 09CA-SC2 | 1160 | 61°43' | 137°20' | 2 |
| Burwash Airstrip | 09CA-SC3 | 810 | 61°23' | 139°03' | 2 |
| Duke River | 09CA-SC5 | 1310 | 61°15' | 138°59' | 6 |
| Beaver Creek | 09CB-SC1 | 655 | 62°25' | 140°51' | 2 |
| Chair Mountain | 09CB-SC2 | 1067 | 62°04' | 140°48' | 2 |
| White River | 09CB-SC3 | 823 | 61°55' | 140°32' | 2 |
| Casino Creek | 09CD-SC1 | 1065 | 62°44' | 138°48' | 2 |
| Pelly Farm | 09CD-SC3 | 472 | 62°50' | 137°20' | 8 |
| Plata Airstrip | 09DA-SC1 | 830 | 63°31' | 132°03' | 1 |
| Arrowhead Lake | 09DA-SC2 | 1120 | 63°42' | 131°10' | 1 |
| Withers Lake | 09DB-SC1 | 975 | 63°59' | 132°18' | 1 |
| Rackla Lake | 09DB-SC2 | 1040 | 64°17' | 133°15' | 1 |
| Mayo Airport (A) | 09DC-SC1A | 540 | 63°38' | 135°53' | 2 |
| Mayo Airport (B) | 09DC-SC1B | 540 | 63°38' | 135°53' | 2 |
| Edwards Lake | 09DC-SC2 | 830 | 63°42' | 134°18' | 1 |
| Calumet | 09DD-SC1 | 1310 | 63°55' | 135°24' | 2 |
| King Solomon Dome | 09EA-SC1 | 1080 | 63°52' | 138°56' | 2 |
| Grizzly Creek | 09EA-SC2 | 975 | 64°26' | 138°16' | 2 |
| Boundary (Alaska) | 09EC-SC2 | 1005 | 64°05' | 141°27' | 4 |
| Midnight Dome | 09EB-SC1 | 855 | 64°04' | 139°24' | 2 |

| NAME | NUMBER | ELEVATION (m) | LATITUDE | LONGITUDE | AGENCY |
|------------------------------|----------|---------------|----------|-----------|--------|
| LIARD RIVER BASIN | | | | | |
| Watson Lake Airport | 10AA-SC1 | 685 | 60°07' | 128°50' | 2 |
| Tintina Airstrip | 10AA-SC2 | 1067 | 61°05' | 131°15' | 1 |
| Pine Lake Airstrip | 10AA-SC3 | 995 | 60°06' | 130°56' | 2 |
| Ford Lake | 10AA-SC4 | 1110 | 60°47' | 131°28' | 1 |
| Frances River | 10AB-SC1 | 730 | 60°35' | 129°11' | 2 |
| Hyland River | 10AD-SC1 | 855 | 61°31' | 128°16' | 2 |
| ALSEK RIVER BASIN | | | | | |
| Canyon Lake | 08AA-SC1 | 1160 | 61°07' | 136°59' | 7 |
| Alder Creek | 08AA-SC2 | 768 | 60°22' | 137°06' | 6 |
| Aishihik Lake | 08AA-SC3 | 945 | 61°12' | 137°00' | 7 |
| Haines Junction Farm | 08AA-SC4 | 610 | 60°45' | 137°34' | 2 |
| Clay Creek | 08AB-SC2 | 670 | 60°09' | 137°56' | 6 |
| Summitt | 08AB-SC3 | 1000 | 60°51' | 137°47' | 2 |
| Profile Mountain | 08AB-SC4 | 900 | 60°38' | 137°56' | 6 |
| PEEL RIVER BASIN | | | | | |
| Blackstone River | 10MA-SC1 | 920 | 64°57' | 138°15' | 2 |
| Ogilvie River | 10MA-SC2 | 595 | 65°21' | 138°18' | 2 |
| Bonnet Plume Lake | 10MB-SC1 | 1120 | 64°18' | 132°00' | 1 |
| PORCUPINE RIVER BASIN | | | | | |
| Riff's Ridge | 09FA-SC1 | 650 | 65°57' | 137°22' | 2 |
| Eagle Plains | 09FB-SC1 | 710 | 66°22' | 136°44' | 2 |
| Eagle River | 09FB-SC2 | 340 | 66°27' | 136°43' | 2 |
| Old Crow | 09FD-SC1 | 299 | 67°34' | 139°51' | 5 |
| ALASKA SNOW COURSES | | | | | |
| Eaglecrest | 34J03 | 305 | 58°17' | 134°32' | 4 |
| Moore Creek Bridge | 34K02 | 701 | 59°31' | 135°15' | 4 |

Numbers refer to Agencies cooperating in the Yukon Snow Surveys:

1. Department of Environment, Government of Yukon
2. Dept of Energy Mines and Resources Yukon
3. British Columbia Ministry of Environment
4. USDA Natural Resources Conservation Service
5. Yukon Transportation and Highways
6. Parks Canada
7. Yukon Energy Corp.
8. Private Contract