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Natural  
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Conservation  
Service

# Alaska

# Basin Outlook Report

## APRIL 1, 2002



# The Following Organizations Cooperate With the Natural Resources Conservation Service in Snow Survey Work:

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Department of Indian and Northern Affairs, Yukon Territory  
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## GENERAL OVERVIEW

### Snowpack

Two storms resulted in a large amount of snow for two relatively small areas in March. The 1<sup>st</sup> and 2<sup>nd</sup> of March the Glenallen/ Copper Center area received 14 to 16 inches of snow. The other significant snow storm that set a record snowfall for a 24 hour period in Anchorage started the evening of the 16<sup>th</sup> and quit about 5:00 PM on the 17<sup>th</sup>. The snowfall was 26 inches and contained 1.75 inches of water content at the National Weather Service River Forecast Center. This storm dropped most of its snow in Anchorage and Eagle River with the Anchorage Hillside proceeding east and south receiving less snow than downtown. The Nipher shielded precipitation gauge at Barrow received 4 tenths of an inch, which is the normal monthly increment. Most of the rest of the state received less than normal monthly increments of snow.

### Precipitation

Most of the state received less than the normal monthly increments with the exception of the Glenallen/Copper Center and Anchorage/ Eagle River Area. According to the National Weather Service observers: Juneau received 1.34 inches, 41 percent of normal; Homer received 0.14 inches, 8 percent of normal; Talkeetna received 0.53 inches, 36 percent of normal; Fairbanks received 0.14 inches, 38 percent of the normal; King Salmon received 0.15 inches, 14 percent of normal; and McGrath 0.10 inches, 12 percent of normal.

### Temperature

Regions of the state varied from above normal to below normal monthly average temperature. It appears the generally colder areas - the Interior, North Slope, and West Coast - were above normal while South-central, the Kenai Peninsula and Southeast were below normal temperature. The extremes were Barrow at 14 degrees above normal and Yakutat was 4.9 degrees below normal monthly temperature.

## STREAMFLOW

Streamflow of snowmelt runoff are as follows:

<u>FORECAST POINT</u>	<u>Percent of Average Flow</u>	<u>Forecast Period</u>
YUKON RIVER at Eagle	102	Apr-Jul
YUKON RIVER at Stevens Village	103	Apr-Jul
TANANA RIVER at Fairbanks	98	Apr-Jul
TANANA RIVER at Nenana	91	Apr-Jul
LITTLE CHENA RIVER nr Fairbanks	67	Apr-Jul
CHENA RIVER nr Two Rivers	72	Apr-Jul
SALCHA nr Salchaket	71	Apr-Jul
SAGVANIRKTOK RIVER nr Pump Station 3	85	Apr-Jul
KUPARUK River nr Deadhorse	86	Apr-Jul
KUSKOKWIM River at Crooked Creek	93	Apr-Jun
GULKANA River at Sourdough	83	Apr-Jul
LITTLE SUSITNA RIVER nr Palmer	81	Apr-Jul
TALKEETNA RIVER nr Talkeetna	83	Apr-Jul
SHIP CREEK nr Anchorage	100	Apr-Jul
KENAI RIVER at Cooper Landing	110	Apr-Jul
GOLD CREEK nr Juneau	114	Apr-Jul

### SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

<u>FORECAST POINT</u>	<u>Index</u>
KOYUKUK RIVER at Hughes	-0.9
BEAVER CREEK above Victoria Creek	-3.0
BIRCH CREEK below South Fork	-3.0
SUSITNA RIVER nr Gold Creek	-2.2
CHULITNA RIVER nr Talkeetna	-3.0
DESHKA RIVER at mouth near Willow	-2.7
MONTANA CREEK at Parks Highway	-2.1
WILLOW CREEK nr Willow	-1.9
SKWENTNA RIVER at Skwentna	-1.9
CHUITNA RIVER nr Tyonek	-1.4
CAMPBELL CREEK nr Spenard	-0.8
INDIAN CREEK at Indian	-2.0
BIRD CREEK at Bird Creek	-2.0
SIX MILE CREEK nr Hope	+1.5
RESURRECTION CREEK nr Hope	-0.3
ANCHOR RIVER nr Anchor Point	+1.5
DEEP CREEK nr Ninilchik	+1.8
NINILCHIK RIVER nr Ninilchik	+1.8
FRITZ CREEK nr Homer	+2.0
SKAGWAY RIVER at Skagway	+2.4

### Index Key:

- 2 to -3 = much below average snowmelt runoff
- 1 to -2 = below average snowmelt runoff
- 1 to +1 = average snowmelt runoff
- +1 to +2 = above average snowmelt runoff
- +2 to +3 = much above average snowmelt runoff

# Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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## *How forecasts are made*

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

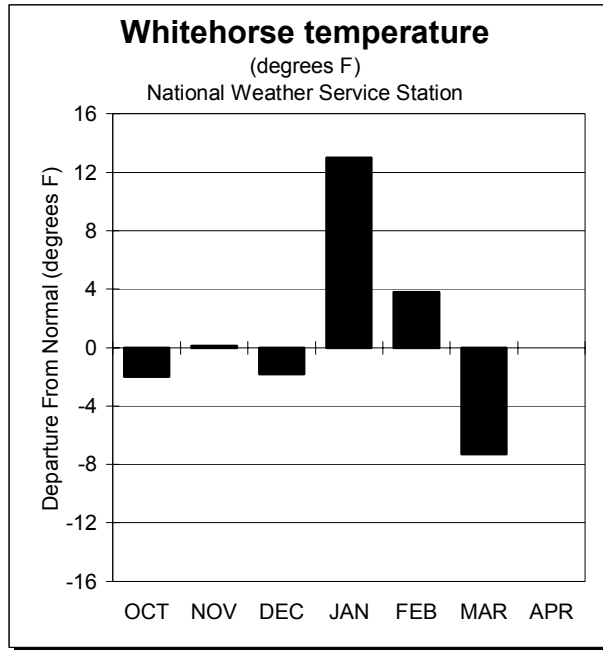
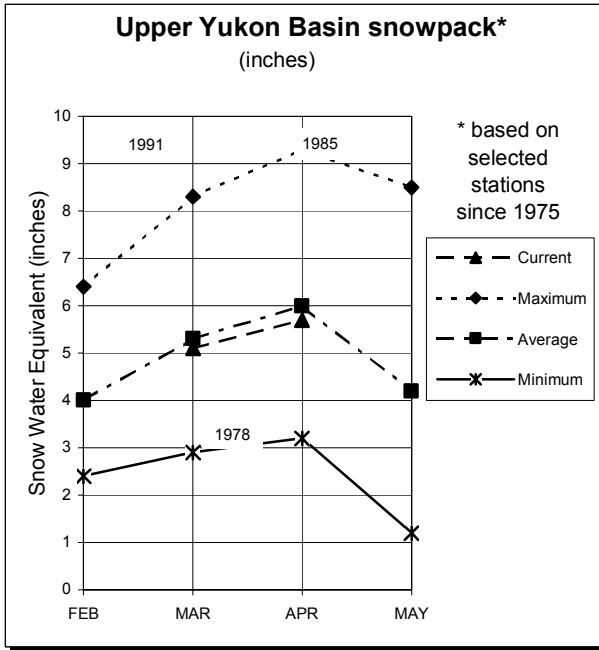
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# Upper Yukon Basin

April 1, 2002



## SNOWCOVER:

The north and western part of the Yukon Basin in the Yukon Territories is below normal with the Dawson area being 81 percent of normal and the Pelly/ Stewart basins being 67 percent of normal. From Whitehorse south to the Gulf of Alaska coast the snow water content increases and is above normal. The Log Cabin snow course is 126 percent of normal, down from last months 134 percent. Along the Alaska Highway near the border, the Beaver Creek snowcourse is 142 percent of normal and Burwash Airstrip is 129 percent of normal water content.

For more information contact the Natural Resources Conservation Service office in Anchorage: (907) 271-2424.

# Upper Yukon Basin

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Arrowhead Lake	3680	No survey	--	---	24	7.1	35	7.9
Atlin	2400	3/29/02	22	5.5	16	4.0	21	4.9
Beaver Creek	2150	3/25/02	21	4.7	19	4.2	17	3.3
Burns Lake	3650	3/26/02	33	7.4	36	8.7	37	8.4
Burwash Airstrip	2660	3/25/02	12	2.2	9	1.9	9	1.7
Calumet	4300	3/25/02	26	4.9	39	9.4	36	7.6
Casino Creek	3500	4/02/02	26	4.2	28	5.6	26	4.9
Chair Mountain	3500	3/25/02	19	3.5	19	3.5	19	3.7
Duke River	4800	3/28/02	20	3.4	23	6.2	23	4.1
Edwards Lake	2720	3/27/02	23	4.2	33	7.2	30	6.7
Finlayson Airstrip	3240	3/26/02	19	3.3	19	3.3	23	4.8
Fuller Lake	3700	3/27/02	28	4.8	30	6.3	34	7.9
Grizzly Creek	4000	3/26/02	26	5.7	35	7.2	32	6.9
Hoole River	3560	3/26/02	24	3.9	21	3.5	24	5.2
Jordan Lake	3050	3/26/02	24	4.6	24	4.8	24	5.2
King Solomon Dome	3550	3/28/02	30	5.4	34	7.4	29	6.0
Log Cabin (B.C.)	2880	3/25/02	55	18.4	53	17.3	49	14.6
Mayo Airport	1620	3/25/02	17	2.5	22	4.8	17	3.7
Macintosh	3800	4/02/02	22	3.5	18	2.5	21	3.8
Meadow Creek	4050	3/28/02	48	11.9	37	9.3	42	10.4
Midnight Dome	2800	3/28/02	24	4.1	35	7.2	28	5.8
Montana Mountain	3340	3/25/02	26	5.7	20	3.4	25	5.5
Morley Lake	2700	3/25/02	26	5.8	19	4.7	25	5.9
Mount Nansen	3250	4/02/02	18	2.8	14	2.0	17	3.0
Mt. BerDoe	3390	4/02/02	25	4.4	21	3.4	22	4.2
Mt. McIntyre B	3700	4/02/02	23	4.9	19	3.8	28	5.9
Pelly Farm	1550	3/29/02	15	2.6	15	2.8	15	3.0
Plata Airstrip	2500	3/27/02	24	4.1	30	6.7	33	7.5
Rackla Lake	3410	3/27/02	26	4.4	39	9.1	37	8.2
Russell Lake	3480	3/27/02	32	5.9	36	8.1	37	8.9
Satasha Lake	3620	4/02/02	21	3.9	17	2.7	21	4.3
Tagish	3540	3/27/02	25	5.6	19	4.0	26	5.5
Twin Creeks	2950	3/26/02	29	5.9	31	7.0	32	7.3
White River	2500	No Survey	--	---	--	---	16	3.0
Whitehorse Airport	2300	3/28/02	23	4.9	19	3.8	19	3.9
Williams Creek	2800	4/02/02	20	3.3	20	3.9	18	3.5
Withers Lake	3200	3/27/02	30	5.4	42	11.7	39	9.4

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Yukon River At Eagle	Apr- Jul	34200	35000	102	116	89

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

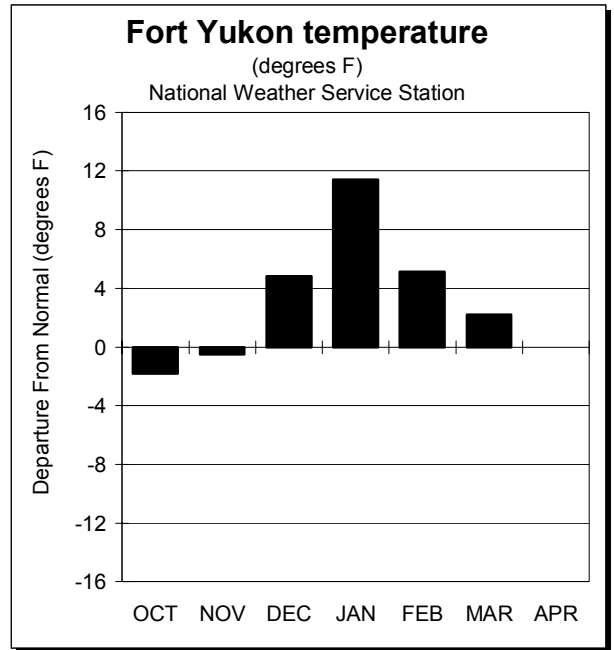
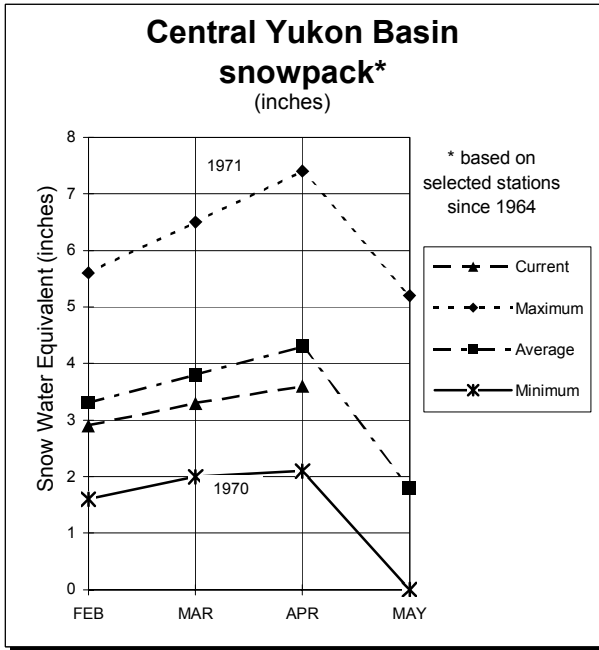
## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Above Whitehorse/ Tetlin	9	122	109
Dawson	3	70	81
Stewart/ Pelly	13	67	67
White River	6	99	103



# Central Yukon Basin

April 1, 2002



## SNOWCOVER:

The 40-mile basin is 93 percent of normal water content with the individual snow courses Mt. Fairplay 119 percent of normal, Chicken Airstrip 100 percent, Boundary 94 percent and Mission Creek in Eagle 58 percent of normal snow water content. The rest of the basin snow courses vary from near 50 percent of normal to 70 percent of normal water content. The only exception is the Seven-Mile snow course along the Dalton Highway, 7 miles north of the Yukon River; it is 108 percent of normal. The White Mountain snowpack has remained low at 53 percent of normal, down from 64 percent last month.

For more information contact the Natural Resources Conservation Service office in Fairbanks: (907) 479-3159.

# Central Yukon Basin

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Borealis	1330	3/28/02	15	2.9	26	5.1	28	5.6
Boundary	3500	3/29/02	22	5.0	36	10.1	25	5.3
Cathedral Creek	1800	4/02/02	14	2.5	New	---	--	---
Chicken Airstrip	1650	3/30/02	16	3.2	17	3.4	16	3.2
Circle City	600	3/29/02	17	2.0	29	4.4	26	4.5
Circle Hot Springs	860	Estimate	17	2.5	27	4.2	23	4.3
Coal Creek	1000	4/02/02	16	2.5	New	---	--	---
Copper Creek	2000	4/02/02	12	2.0	New	---	--	---
Eagle Plains	2570	3/26/02	24	4.2	39	8.2	32	7.0
Eagle River	1200	3/26/02	23	4.1	35	6.0	27	5.5
Fort Yukon	430	4/02/02	14	2.0	--	--	20	3.8
Fossil	1400	3/29/02	15	2.6	28	5.0	--	---
Graphite Lake	600	4/02/02	15	2.1	22	4.0	--	---
Hess Creek	1000	4/01/02	21	4.3	32	6.1	26	5.4
Lost Chicken Hill	2100	3/30/02	18	3.6	18	3.7	--	---
Lower Beaver Creek	400	4/02/02	16	2.9	28	5.6	--	---
Mission Creek	900	3/29/02	14	2.4	22	4.1	18	4.1
Mt. Fairplay	3100	3/30/02	21	5.1	19	5.3	20	4.3
Old Crow	840	3/28/02	23	3.5	36	6.8	25	4.6
Riff's Ridge	2130	3/26/02	19	3.3	39	7.8	29	5.7
Seven Mile	600	4/01/02	24	5.6	32	6.6	26	5.2
Stack Pup Creek	1620	3/30/02	17	2.1	25	3.8	25	4.4
Step Mountain	2850	4/02/02	0	0	New	---	--	---
Tacoma Bluff	1450	4/02/02	14	2.4	New	---	--	---
Thirty Mile	1350	4/01/02	29	6.6	43	9.4	37	8.1
Three Fingers	3350	4/02/02	16	2.3	New	---	--	---
Vunzik Lake	500	4/02/02	14	2.5	19	3.4	--	---
Windy Gap	1900	3/28/02	17	3.4	30	5.8	--	---
Wolf	1300	3/28/02	18	3.1	30	5.1	--	---

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Yukon River At Stevens Village	Apr- Jul	48200	49400	103	118	87

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1 <sup>st</sup>						
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Atigun Pass**	4800	3/31/02	5.0	5.0	6.05	65
Chandalar Shelf**	3300	3/31/02	4.5	4.9	5.3	85
Eagle Summit	3650	3/31/02	4.0	4.0	6.3	--
Fort Yukon	430	3/31/02	2.2	3.6	---	--
Mission Creek	900	3/29/02	3.0	2.4	5.23	73

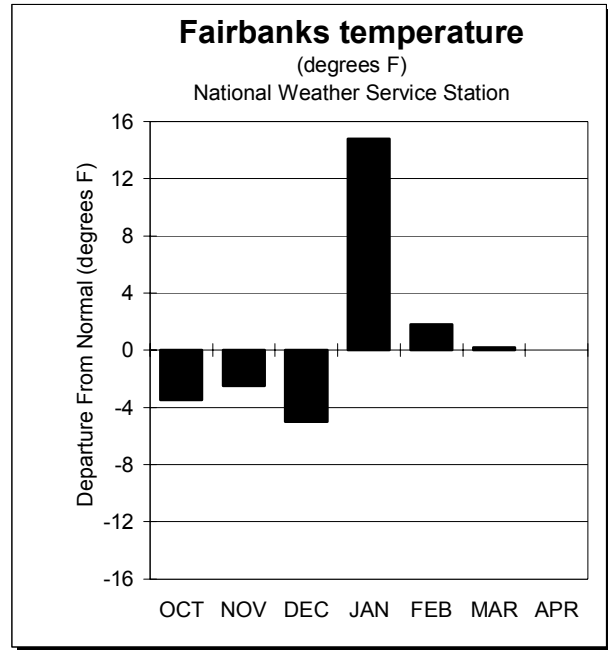
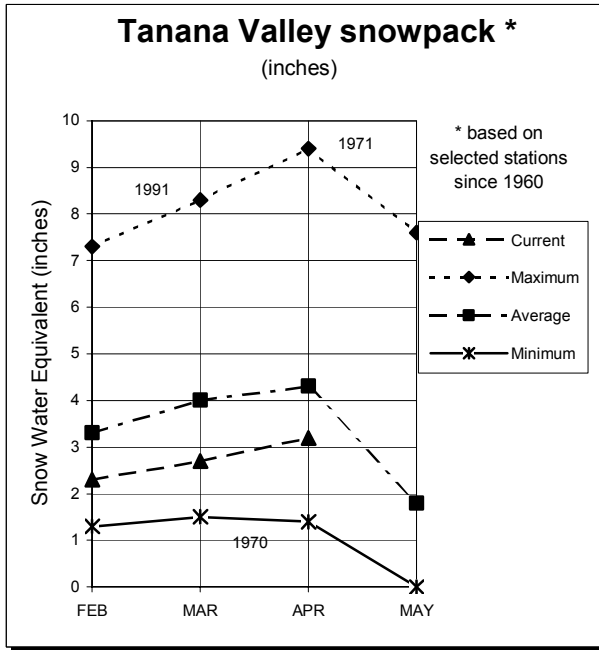
\*\*Wyoming Gauge

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Forty Mile	4	69	93
Porcupine (Canada)	--	--	---
Yukon Flats	3	60	71
White Mountains	4	57	53

# Tanana Basin

April 1, 2002



## SNOWCOVER:

The Cleary Summit snow course remains below 50 percent of normal, at 42 percent of normal, as well as the Fairbanks F.O. at 49 percent of normal. To the south and west of Fairbanks this trend continues with Lake Minchumina being 48 percent of normal.

Moving up the Tanana Valley the snow water content begins to increase. The exception is the Fielding Lake snow course south of Delta Junction, which is 51 percent of normal. The Gerstle River snow course is near normal and the snow course water content measured at Tok is 144 percent of normal. The Salcha River near Salchaket is forecast to flow 71 percent of normal for the April through July period.

For more information, contact the Natural Resources Conservation Service office in Fairbanks: (907) 479-3159, or Delta Junction: (907) 895-4241.

# Tanana Basin

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Bonanza Creek	1150	4/02/02	12	2.8	19	3.5	23	5.0
Caribou Creek	1250	No Report	--	---	--	---	23	5.0
Caribou Mine	1150	3/29/02	20	2.7	24	3.5	27	5.6
Caribou Snow Pillow	900	No Report	--	---	--	---	23	4.8
Cleary Summit	2230	3/29/02	19	2.8	29	4.8	31	6.7
Colorado Creek	700	3/29/02	18	2.7	18	3.3	23	4.7
Edgar Creek	450	No Report	--	---	--	---	--	---
Fairbanks F.O.	450	3/29/02	14	2.2	21	3.2	23	4.5
Faith Creek	1900	3/30/02	16	2.3	25	3.3	28	4.9
Fielding Lake	3000	4/01/02	25	6.1	40	9.7	46	12.0
Fort Greely	1500	4/01/02	16	3.1	17	3.4	17	3.6
French Creek	1800	4/02/02	20	4.0	20	4.4	27	6.4
Gerstle River	1200	4/02/02	16	3.3	16	2.9	18	3.4
Gold King	1700	No Report	--	---	--	---	--	---
Granite Creek	1240	3/26/02	16	3.2	17	3.5	18	3.8
Jatahmund Lake	2180	4/02/02	19	3.1	21	4.1	--	---
Kantishna	1550	3/28/02	22	2.9	--	---	--	---
Lake Minchumina	730	3/28/02	14	2.1	--	---	21	4.4
Little Chena Bottom	1460	3/29/02	15	2.1	18	3.1	21	4.3
Little Chena Ridge	2000	3/29/02	20	4.0	25	4.5	28	5.9
Lost Creek	3030	No Report	--	---	16	3.1	--	---
Mentasta Pass	2430	4/01/02	20	4.4	25	5.3	28	6.7
Monument Creek	1850	3/29/02	17	2.6	24	3.9	25	5.2
Mt. Ryan	2800	3/29/02	18	3.9	27	4.8	31	6.8
Munson Ridge	3100	3/29/02	24	3.8	29	5.1	38	9.1
Paradise Hill	2200	3/28/02	21	4.0	19	3.8	--	---
Ptarmigan Airstrip	2400	No Report	--	---	--	---	--	---
Ptarmigan Creek	2230	3/30/02	17	2.4	22	3.6	19	3.8
Rock Creek Bottom	2250	3/29/02	15	2.0	18	2.1	--	---
Rock Creek Ridge	2600	3/29/02	14	1.6	18	3.6	--	---
Shaw Creek Flats	980	4/02/02	13	2.5	12	2.3	16	3.4
Teuchet Creek	1640	3/29/02	19	3.1	25	3.8	23	4.4
Tok Junction	1650	4/01/02	25	5.2	20	4.1	19	3.6
Upper Chena	3000	3/29/02	18	3.7	28	4.9	33	7.8
Upper Chena Pillow	2850	No Report	--	---	26	4.5	32	7.5

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Tanana River at Fairbanks	Apr- Jul	7100	6975	98	111	86
Little Chena River nr Fairbanks	Apr- Jul	78	52	67	99	34
Chena River nr Two Rivers	Apr- Jul	270	195	72	114	31
Salcha River nr Salchaket	Apr- Jul	625	445	71	106	36
Tanana River at Nenana	Apr -Jul	9000	8150	91	106	75

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

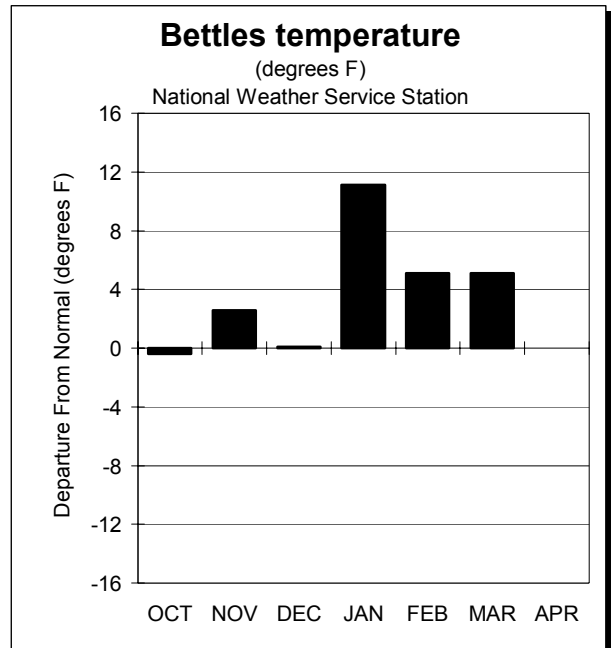
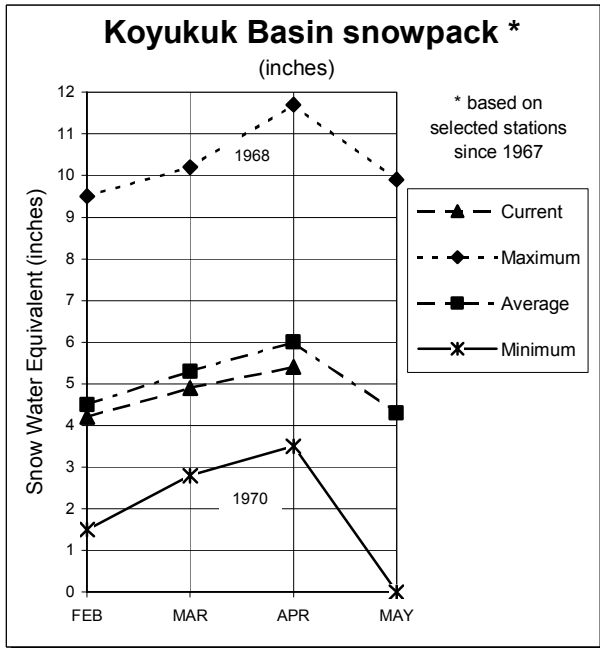
PRECIPITATION GAUGE	ELEVATION	DATE	THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Fairbanks Field Off.	450	3/27/02	2.4	3.2	4.6	56
Granite Creek	1240	3/26/02	4.4	2.5	3.1	66
Monument Creek	1850	3/29/02	5.6	3.4	6.4	88
Mt. Ryan	2800	3/29/02	3.3	4.5	6.9	48
Munson Ridge	3100	3/29/02	3.7	4.7	9.1	44
Rhoads Creek	1240	3/26/02	2.8	2.1	2.3	80

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Chatanika	no report	--	--
Chena Basin	8	78	56
Lower Tanana Valley	5	70	44
Mid Tanana Valley (Delta Jct)	5	83	69
Upper Tanana Valley (Tok)	3	105	143

# Western Interior Basins

April 1, 2002



## SNOWCOVER:

### Koyukuk

Bonanza Forks and Lake Todatonten snow courses are just above normal and the rest of the snow course water contents are below normal resulting in the basin being 89 percent of normal. Coldfoot has 25 inches of snow and 5.3 inches of water content 77 percent of normal.

### Kuskokwim

The Telaquana Lake snow course water content is 173 percent of last year, probably a little above normal. The McGrath snow course is 86 percent of normal water contents and the Lake Minchumina snow course is 48 percent of normal water content, it has 2.1 inches, the same as last month.

### Lower Yukon

It appears that there was a lot of settling and no new snow at the Innoko Wildlife Refuge snow courses. The snow course water contents are 107 percent of last year.

For more information, contact the Natural Resources Conservation Service office in Anchorage: (907) 271-2424.

# Western Interior Basins

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
<b>KOYUKUK</b>								
Bettles Field	640	3/28/02	29	6.6	--	---	32	6.9
Bonanza Forks	900	4/01/02	23	5.8	29	5.4	27	5.6
Coldfoot	1040	4/01/02	25	5.3	25	5.2	31	6.9
Disaster Creek	1550	4/01/02	20	3.9	24	4.2	23	4.4
Kaldoyeit	580	3/28/02	22	4.5	--	---	--	---
Kanuti Chalatna	550	3/28/02	24	5.3	--	---	--	---
Kanuti Kilolitna	550	3/28/02	26	5.8	--	---	--	---
Lake Todatonten	550	4/01/02	29	5.8	--	---	28	5.5
Minnkokut	580	3/28/02	28	6.0	--	---	--	---
Nolitna	560	3/28/02	25	5.5	--	---	--	---
Table Mountain	2200	4/01/02	18	3.5	24	4.4	24	4.9
Taiholman	540	3/28/02	0	0.0	--	---	--	---

## **KUSKOKWIM**

Lake Minchumina	730	3/28/02	14	2.1	--	---	21	4.4
McGrath	340	4/01/02	23	5.6	28	6.5	30	6.5
Purkeypile Mine	2030	3/28/02	32	4.2	--	---	--	---
Telaquana Lake	1550	3/28/02	24	5.2	18	3.0	--	---

## **LOWER YUKON**

Grouch Creek	220	no survey	--	---	23	4.2	--	---
Holikachuk	100	3/29/02	37	9.5	32	8.2	--	---
Horsefly Creek	180	3/29/02	28	6.8	24	4.0	--	---
Innoko Inn	200	3/29/02	23	4.6	24	4.0	--	---
Menotl Creek	380	3/29/02	33	8.3	45	13.2	--	---
Middle Innoko	150	3/29/02	36	9.3	30	7.7	--	---
Tozikaket	600	no survey	--	---	--	---	24	5.0
Upper Innoko	180	3/29/02	39	9.5	27	6.9	--	---
Wapoo Hills	220	3/29/02	31	7.7	33	7.5	--	---
Yankee Slough	100	3/29/02	39	10.3	39	10.6	--	---
Yetna River	120	3/29/02	34	8.2	27	7.0	--	---

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Kuskokwim River at Crooked Creek	Apr- Jun	10500	9775	93	124	62

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

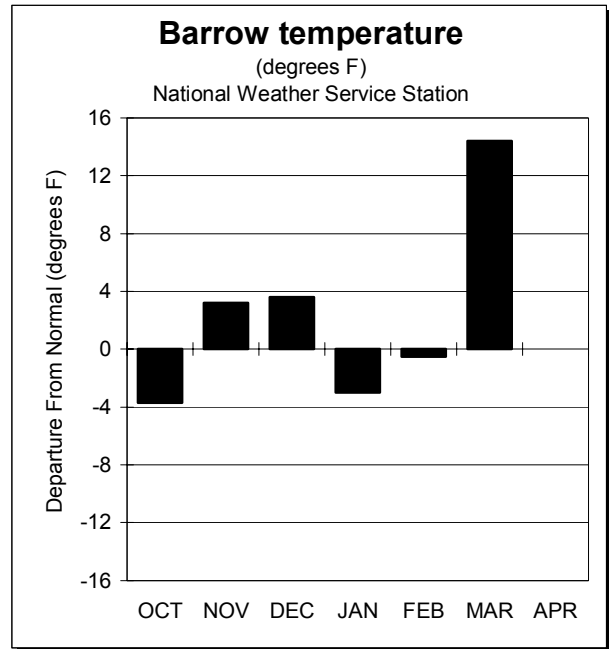
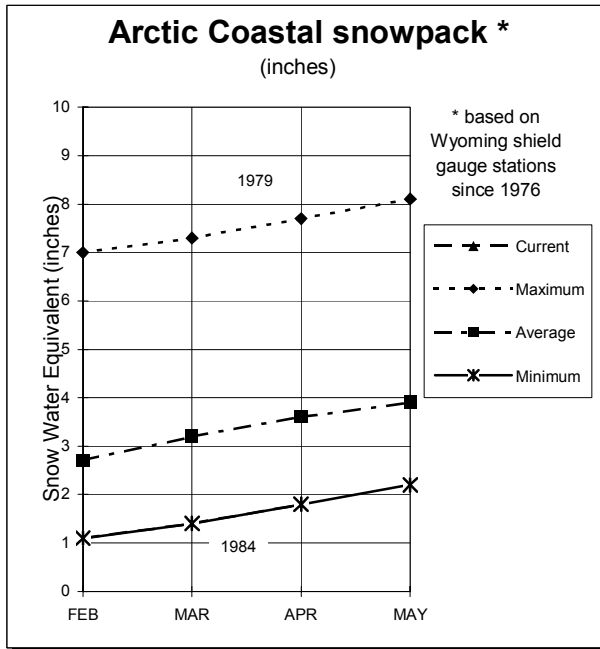
PRECIPITATION GAUGE	ELEVATION	DATE	THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Bettles Field	640	3/28/02	6.6	---	6.7	92
Coldfoot	1040	4/01/02	5.8	5.3	6.7	83
Gobblers Knob	2030	4/03/02	7.0	4.0	6.8	--

## **WATERSHED SNOWPACK ANALYSIS**

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Koyukuk	7	91	89
Upper Kuskokwim	4	94	77
Lower Yukon	9	107	--

# Arctic and Kotzebue Sound

April 1, 2002



## SNOWCOVER:

### Arctic

Barrow precipitation continues to set a record low this year having received 1.7 inches since October 1<sup>st</sup>, 57 percent of normal. The gauge did receive 4 tenths of an inch this month, therefore the 1.7 inches ties the record low amount.

### Kotzebue

The precipitation gauge at Kivalina has received 2.3 inches since October 1<sup>st</sup>, 121 percent of last year. Red Dog received 0.8 inches in March and is 106 percent of last year.

For more information, contact the Natural Resources Conservation Service office in Anchorage: (907) 271-6093.

# Arctic and Kotzebue Sound

## SNOWPACK DATA

SNOWCOURSE	Elevation	Date	This Year		Last Year		1971-2000 Ave.	
			Snow Depth	Water Content	Snow Depth	WATER CONTENT	SNOW DEPTH	WATER CONTENT
<b>April</b>								
Kugarak	225	4/01/02	20	4.2	New	---	--	---

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1 <sup>st</sup>						
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
<b>ARCTIC</b>						
Atigun Camp	3400	3/31/02	2.2	1.9	5.0	44
Atigun Pass	4800	3/31/02	5.0	5.0	8.8	65
Barrow	25	4/01/02	1.7	2.1	3.0	57
Prudhoe Bay	30	No report	---	---	3.8	--
Imnaviat Creek	3050	3/31/02	2.5	2.6	3.03	64
<b>KOTZEBUE SOUND</b>						
Kivalina	50	3/31/02	2.3	1.9	--	--
Red Dog	950	3/31/02	3.8	3.6	6.3	60

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Kuparuk River nr Deadhorse	Apr- Jul	795	670	86	117	54
Sagvanirtok River nr Pump Station 3	May- Jul	685	580	85	104	68

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

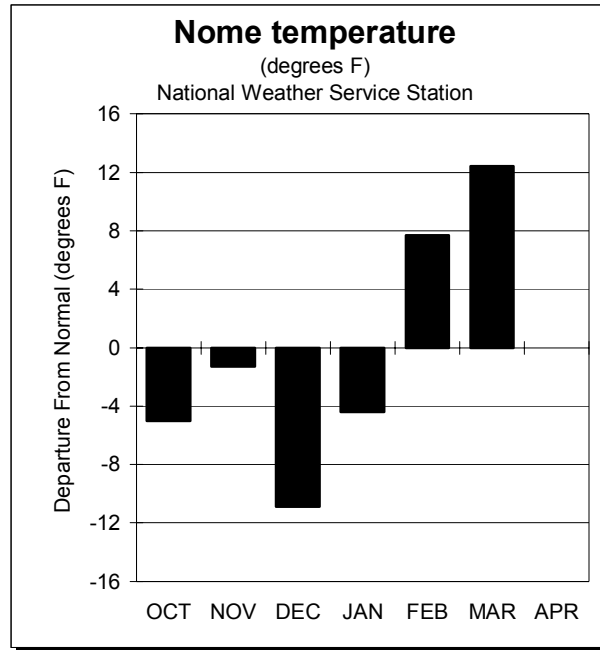
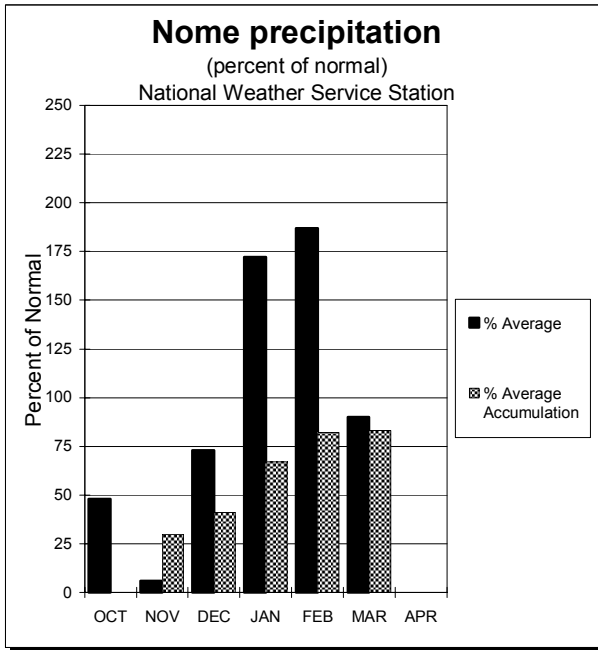
## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Arctic Coast	1	81	57
Dalton Highway	2	104	53



# Norton Sound / Southwest Delta / Bristol Bay

April 1, 2002



## SNOWCOVER:

### Norton Sound

Pargon Creek Wyoming shielded precipitation gauge has received 64 percent of last year's total accumulation from October 1<sup>st</sup> to April 1<sup>st</sup>.

### Southwest Delta/Bristol Bay

The lower elevation snow water content at Port Alsworth is 170 percent of last year while the higher elevation snow water content at Fishtrap Lake is 65 percent of last year. Upper Twin Lakes is about the same as last year.

For more information contact the Natural Resource Conservation Service office in Bethel: (907) 543-7155.

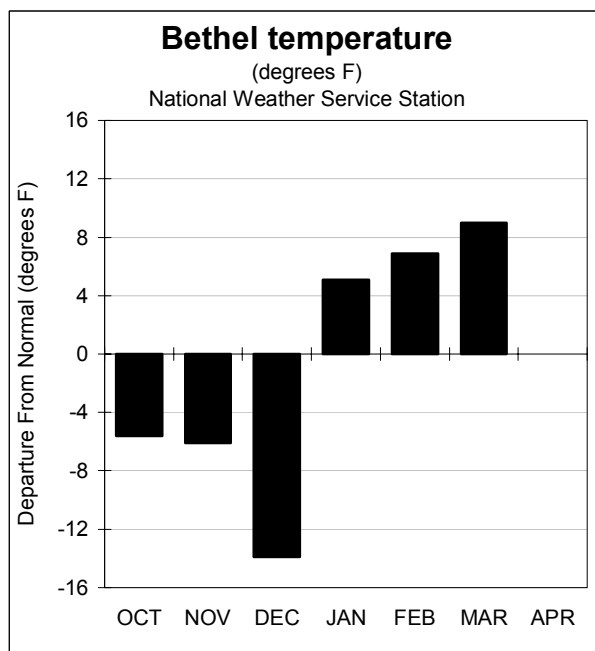
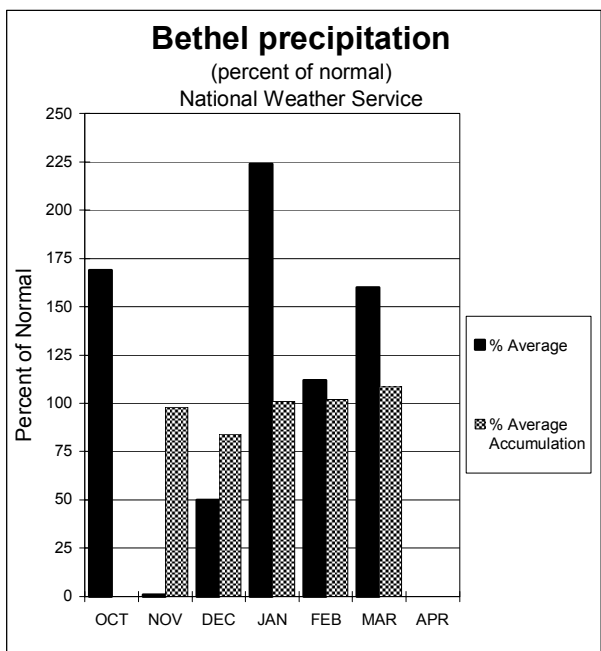
# Norton Sound / Southwest Delta / Bristol Bay

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
<b>BRISTOL BAY</b>								
Brooks Camp	150	No survey	--	---	--	---	---	---
Fishtrap Lake	1800	3/29/02	38	9.8	46	15.0	---	---
Port Alsworth	270	3/29/02	14	4.6	9	2.7	---	---
Three Forks	900	No survey	--	---	--	---	---	---
Upper Twin Lakes	2000	3/28/02	32	7.3	28	7.5	---	--

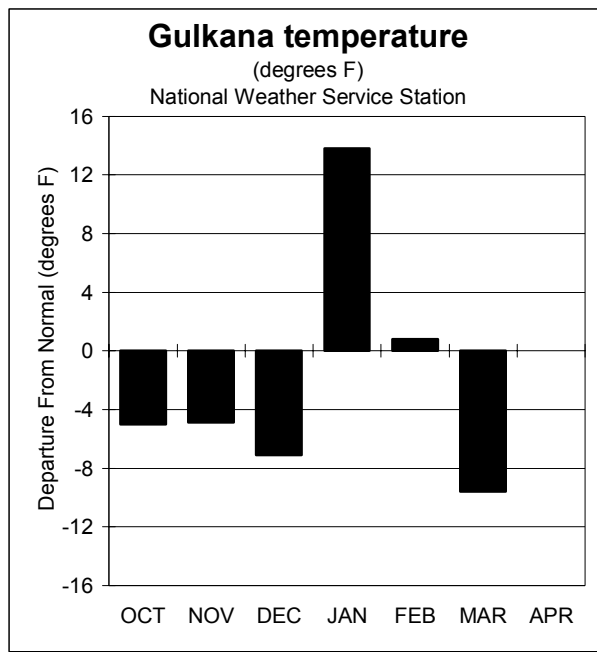
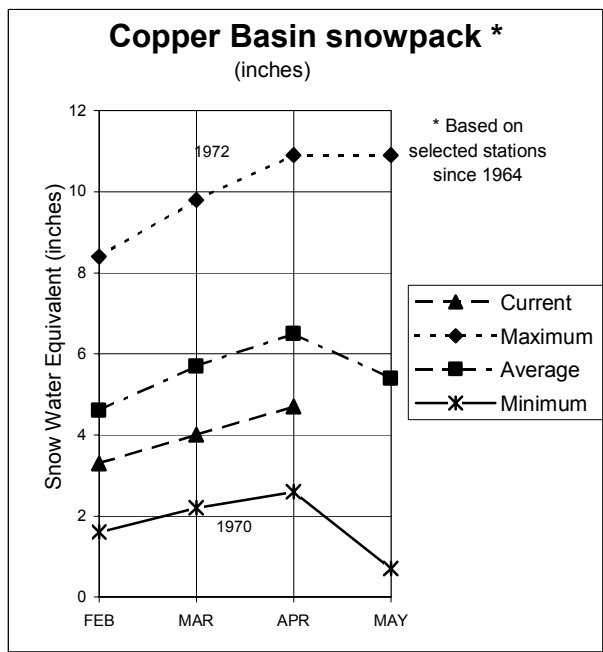
## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1 <sup>st</sup>						
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
<b>NORTON SOUND</b>						
Pargon Creek	100	3/31/02	3.8	5.9	---	--



# Copper Basin

April 1, 2002



## SNOWCOVER:

The entire basin appears to be below normal snow water content for April 1st. The Alaska Range to the north has the least at 60 percent with the south and east side of the Wrangle Mountains having the most at 98 percent of normal.

For more information contact the Natural Resources Conservation Service office in Delta Junction: (907) 895-4241 or Anchorage: (907) 271-2424.

# Copper Basin

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Chisana	3320	No Report	--	---	23	4.9	--	---
Chistochina	2170	4/01/02	18	3.3	16	3.3	22	4.1
Chokosna	1550	No Report	--	---	14	4.7	--	---
Dadina Lake	2160	4/02/02	28	5.9	34	6.8	27	5.9
Haggard Creek	2540	4/01/02	23	4.8	28	5.6	29	6.3
Horsepasture Pass	4300	4/01/02	27	5.7	39	9.4	29	6.4
Kenny Lake School	1300	4/02/02	17	2.9	13	2.5	17	3.7
Lake Louise	2400	3/28/02	22	3.7	25	4.8	23	4.6
Little Nelchina	2650	3/28/02	23	4.3	32	6.1	--	---
Lost Creek	3030	No Report	--	---	16	3.1	--	---
May Creek	1610	No Report	--	---	31	8.6	--	---
Mentasta Pass	2430	4/01/02	20	4.4	25	5.3	28	6.7
Monsoon Lake	3100	4/01/02	22	4.6	30	6.5	28	6.4
Paxson	2650	4/01/02	20	4.8	32	6.9	32	7.8
Sanford River	2280	4/02/02	28	5.9	22	4.7	28	6.2
St. Anne Lake	1990	4/01/02	20	4.0	27	6.4	25	5.5
Tazlina	1220	4/02/02	21	3.8	13	2.4	--	---
Tolsona Creek	2000	3/28/02	23	4.1	25	5.3	22	4.1
Tsina River	1650	4/02/02	49	12.8	65	19.0	57	17.6
Twin Lakes	2400	4/01/02	21	4.4	29	6.7	28	6.4
Worthington Glacier	2100	4/02/02	61	22.9	87	30.4	72	24.9

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Gulkana River at Sourdough	Apr- Jul	475	395	83	114	52

\* Max is 90 percentile of subsequent precipitation events

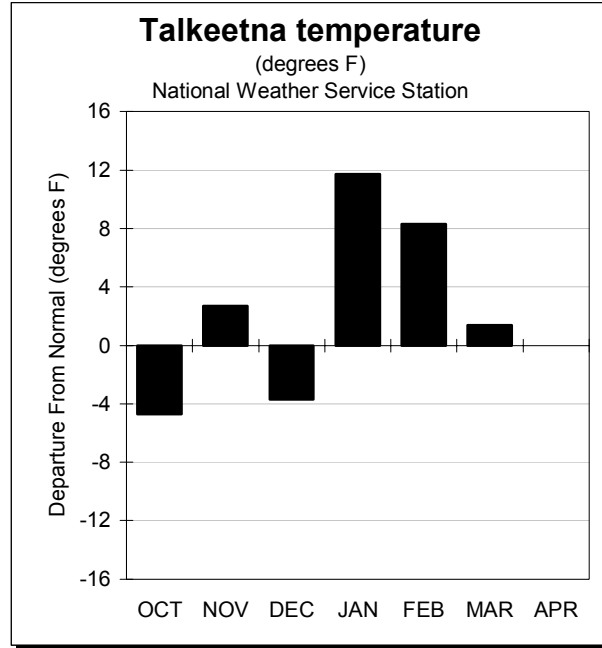
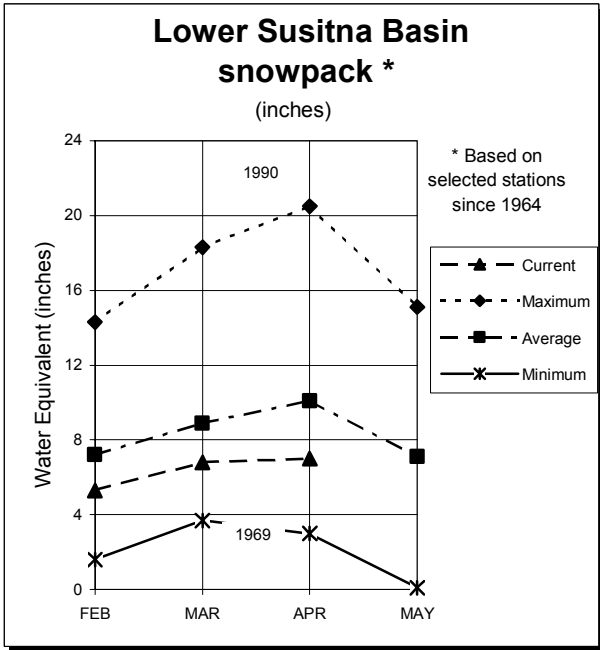
\*\* Min is 10 percentile of subsequent precipitation events

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Alaska Range	4	70	60
Basin Floor	6	79	81
Chugach Range	3	72	72
Talkeetna Mountains	3	57	87
Wrangell Mountains	2	103	98

# Matanuska - Susitna Basins

April 1, 2002



## SNOWCOVER:

From Broad Pass south to Talkeetna along the Parks Highway the snow water content is 50 percent of normal or less. Denali View's snow water content is 47 percent of normal while the Talkeetna snow course water content is 52 percent of normal. The Lower Susitna basin is 69 percent of normal, as are the Peters Hills. The Upper Susitna, which stretches up to Lake Louise in what looks like the Copper Basin, is 70 percent of normal water content. The Lake Louise snow course is 80 percent of normal water content. The Snowmelt Runoff Index for the Deshka River is - 2.7, much below average for the April through July period.

For more information, contact the Natural Resources Conservation office in Wasilla, 373-6492.

# Matanuska - Susitna Basins

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Alexander Lake	160	3/27/02	37	8.9	50	14.5	44	12.0
Archangel Road	2200	3/29/02	39	9.5	43	10.4	50	16.3
Bentalit Lodge	150	No Report	--	---	38	10.5	--	---
Blueberry Hill	1200	3/26/02	29	7.4	76	17.2	58	16.0
Chelatna Lake	1650	3/30/02	35	9.3	46	11.0	44	11.6
Clearwater Lake	2650	4/01/02	21	4.0	30	5.7	27	5.7
Denali View	700	3/26/02	26	6.3	60	15.5	50	13.4
Dutch Hills	3100	3/30/02	58	17.0	82	27.9	80	27.5
E. Fork Chulitna	1800	3/26/02	31	8.0	75	18.1	54	14.0
Fishhook Basin	3300	4/02/02	46	12.7	63	18.2	64	20.5
Fog Lakes	2120	4/01/02	19	3.7	--	---	28	6.2
Independence Mine	3550	4/02/02	54	16.0	71	20.0	70	24.2
Lake Louise	2400	3/28/02	22	3.7	25	4.8	23	4.6
Little Susitna	1700	3/29/02	37	8.3	37	9.3	43	13.3
Moose Creek Ranch	450	3/28/02	22	4.3	New	---	--	---
Monahan Flat	2710	4/01/02	23	4.5	--	---	35	8.1
Nugget Bench	2010	3/30/02	34	9.5	57	15.7	55	15.5
Ramsdyke Creek	2220	3/30/02	51	16.5	81	24.3	69	22.0
Sheep Mountain	2900	3/28/02	25	5.1	39	9.3	26	6.0
Skwentna	160	3/27/02	35	8.6	50	13.6	42	11.6
Square Lake	2950	4/01/02	19	3.6	32	6.4	22	4.2
Susitna Valley High	500	3/21/02	26	5.7	34	8.4	39	9.5
Talkeetna	350	3/27/02	22	4.5	33	9.3	34	8.7
Tokositna Valley	850	3/30/02	51	14.5	68	20.4	62	18.7
Tyone River	2500	4/01/02	21	3.8	29	5.1	--	---
Willow Airstrip	200	3/27/02	28	5.8	20	5.5	31	8.1

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Little Susitna River nr Palmer	Apr- Jul	86	70	81	99	64
Talkeetna River nr Talkeetna	Apr- Jul	1630	1350	83	98	67

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

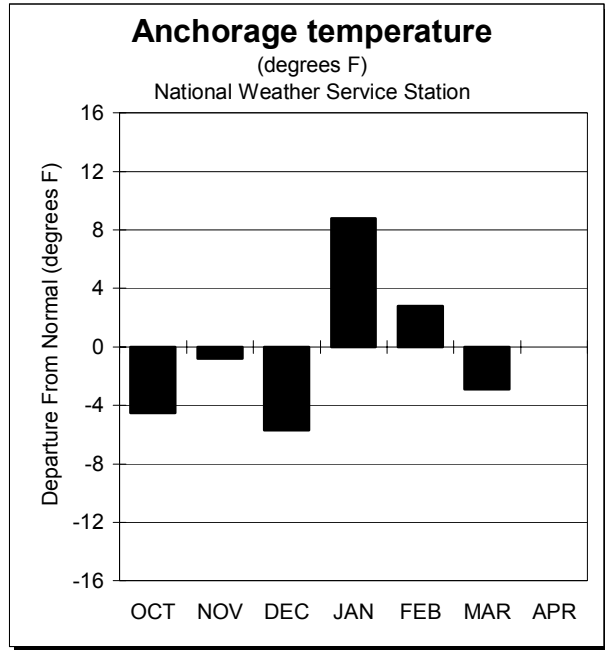
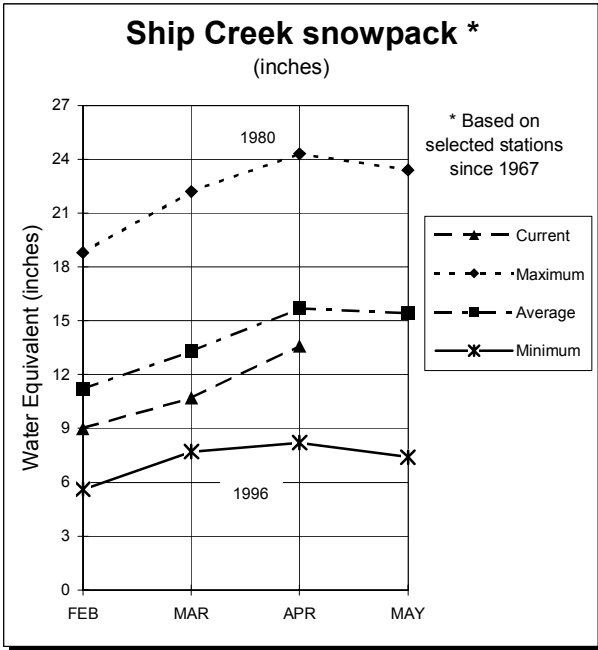
PRECIPITATION GAUGE	ELEVATION	DATE	THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Independence Mine	3550	--	--	--	--	--
Susitna Valley High	375	3/27/02	5.7	9.5	11.7	50

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Lower Susitna	4	65	69
Matanuska/ Little Susitna	4	74	66
Peter Hills	4	65	69
Upper Susitna	5	65	70

# Northern Cook Inlet

April 1, 2002



## SNOWCOVER:

The Indian Pass snow course water content is 79 percent of normal. Most of the rest of the snow courses in the Anchorage Bowl are near normal. Anchorage Hillside near the Glen Alps parking lot is 103 percent of normal water content. The Snowmelt Runoff Index for Indian and Bird Creek is -2.0, below to much below average snow melt run off expected.

For more information contact the Natural Resources Conservation Services office in Anchorage: (907) 271-2424 or Wasilla: (907) 373-6492.

# Northern Cook Inlet

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Anchorage Hillside	2080	4/02/02	44	10.7	32	9.5	38	10.4
Arctic Ski Bowl	3000	3/28/02	43	9.8	35	11.6	43	14.0
Arctic Valley #1	500	3/28/02	30	6.2	3	1.2	14	3.6
Arctic Valley #2	1000	3/28/02	35	7.0	15	4.5	20	5.1
Arctic Valley #3	1450	3/28/02	41	8.6	25	7.5	28	7.3
Arctic Valley #4	2030	3/28/02	41	8.6	26	6.6	29	7.7
Chuitna Plateau	1540	3/27/02	77	27.7	110	41.8	72	27.2
Congahbuna Lake	500	3/27/02	38	8.7	45	12.3	38	10.8
Granite Point	250	3/27/02	15	3.9	17	5.1	15	5.6
Indian Pass	2350	3/29/02	64	18.6	88	31.0	71	23.7
Kincaid Park	250	4/03/02	27	5.8	15	4.1	--	---
Lone Ridge	1680	3/27/02	75	25.5	117	44.5	86	33.1
Mt. Alyeska	1540	Estimate	90	31.1	138	50.3	107	36.9
Point Mackenzie	200	3/22/02	24	5.3	11	3.1	20	5.4
Portage Valley	50	3/29/02	51	15.5	23	7.5	39	15.0
South Campbell Creek	1200	4/02/02	34	8.2	16	4.6	28	7.4

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Ship Creek nr Anchorage	Apr- Jul	58.0	58.0	100	114	86

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

PRECIPITATION GAUGE	ELEVATION	DATE	INCHES ACCUMULATED SINCE OCTOBER 1 <sup>st</sup>			
			THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Indian Pass	2350	3/29/02	19.7	33.7	23.88	81
Mt. Alyeska	1540	3/01/02	39.5	-	43.14	105
Point Mackenzie	200	3/22/01	5.0	6.4	8.08	71

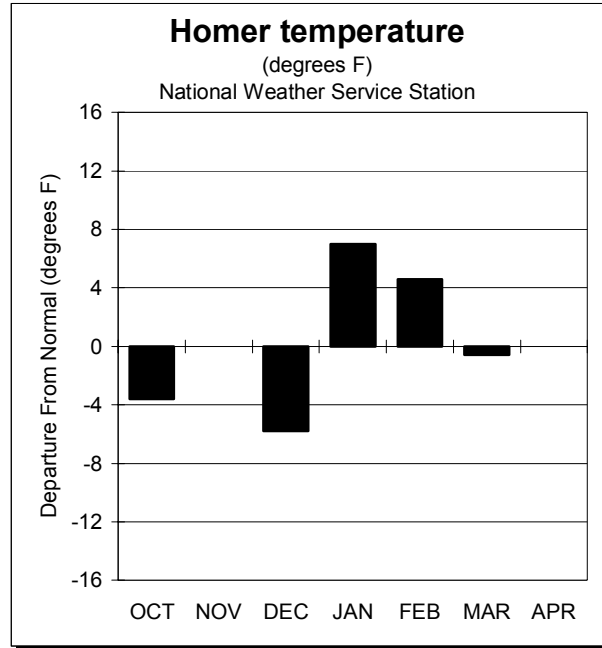
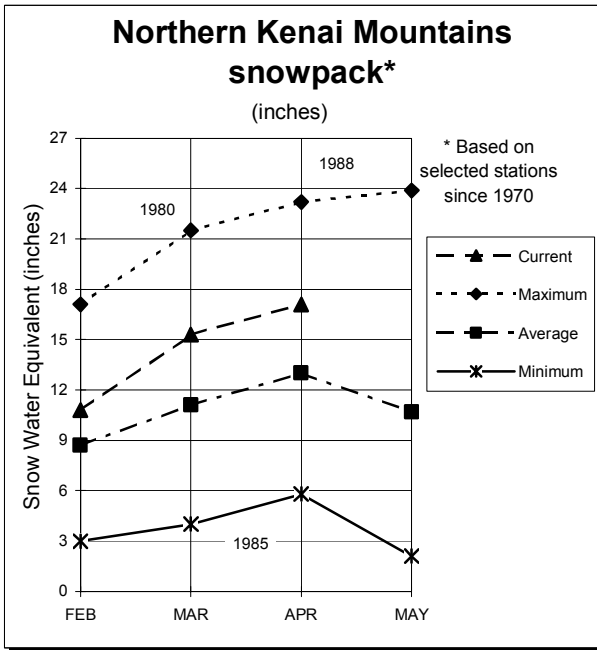
## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Campbell Creek Headwaters	2	134	106
Ship Creek	3	80	91
Turnagain Arm	2	66	106



# Kenai Peninsula

April 1, 2002



## SNOWCOVER:

The Northern Kenai Mountains snow courses are well above normal at 132 percent of normal water content. The Six-Mile Creek Snowmelt Runoff Index is +1.5, above average. To the east, the Resurrection Creek Index is -0.3, near average snowmelt runoff. On the rim above Homer, the Ninilchik Dome remains 135 percent of normal, down from 165 percent of normal last month.

For more information, contact the Natural Resources Conservation Service office in Homer: (907) 235-8177.

# Kenai Peninsula

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Bertha Creek	950	3/27/02	71	23.2	81	27.4	57	17.6
Bridge Creek	1300	4/02/02	52	16.0	62	19.4	44	12.9
Cooper Lake	1200	3/29/02	62	22.8	70	24.0	50	15.0
Demonstration Forest	780	4/02/02	33	10.2	21	7.3	32	9.5
Eagle Lake	1400	4/01/02	57	18.2	71	22.8	42	12.7
Grandview	1100	3/15/02	92	33.4	120	43.2	83	27.8
Grouse Creek Divide	700	3/28/02	67	24.0	60	19.0	57	18.4
Jean Lake	620	3/29/02	22	6.2	15	2.6	15	4.0
Kenai Moose Pens	300	3/31/02	21	5.5	14	3.0	15	4.1
Kenai Summit	1390	3/27/02	53	14.6	64	22.0	46	14.3
McNeil Canyon	1320	4/02/02	50	16.3	55	16.7	41	11.7
Moose Pass	700	3/27/02	42	13.5	29	11.8	21	7.1
Nanwalek	500	No survey	--	---	--	---	--	---
Nuka Glacier	1250	4/01/02	135	57.5	140	63.4	95	39.5
Nuka River	1300	no survey	--	---	172	77.4	95	39.5
Pass Creek	1200	3/24/02	33	8.9	38	10.9	32	8.6
Port Graham	300	4/01/02	43	14.1	22	11.0	--	---
Resurrection Pass	2250	3/25/02	42	12.2	--	---	38	10.9
Snug Harbor Road	500	3/29/02	26	6.6	14	13.0	18	5.1
Summit Creek	1400	3/27/02	47	12.6	48	17.3	43	11.7
Turnagain Pass	1880	3/13/02	114	44.7	150	65.0	106	34.9

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Kenai River at Cooper Landing	Apr- Jul	925	1015	110	121	98

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

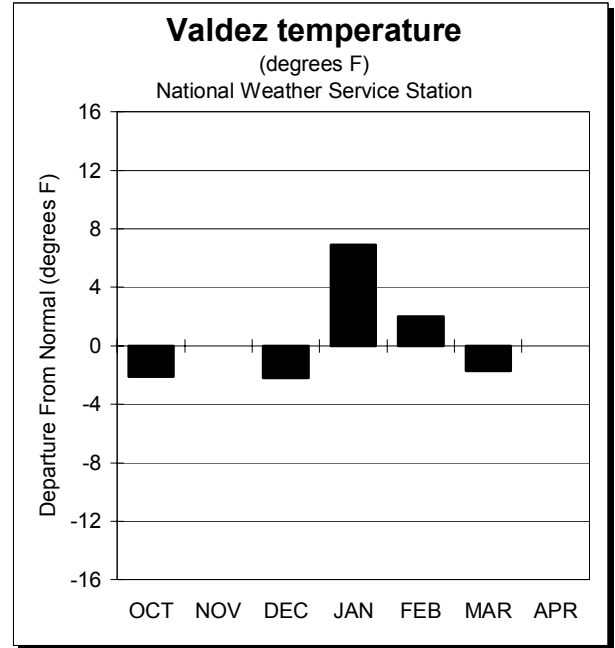
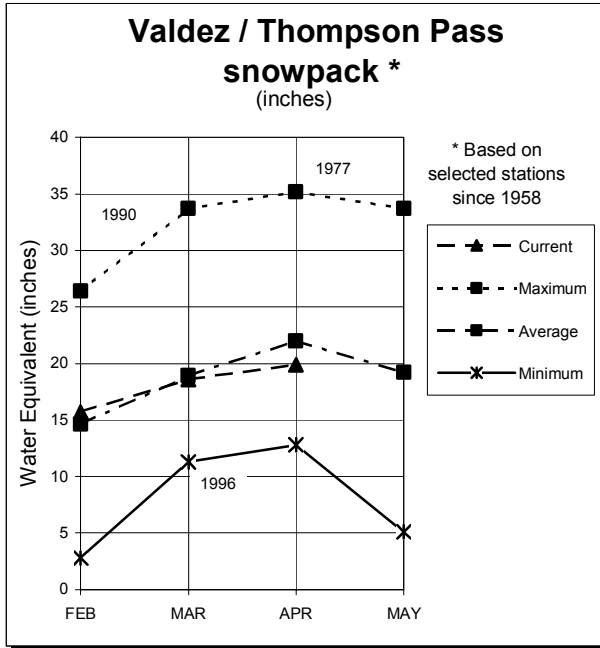
PRECIPITATION GAUGE	ELEVATION	DATE	THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Cooper Lake	1200	3/29/02	23.1	34.4	23.4	111
Grandview	1100	3/31/02	41.9	65.2	37.0	121
Grouse Creek Divide	700	3/28/02	36.5	63.7	35.5	114
Kenai Moose Pens	300	3/31/02	6.2	9.1	8.2	84
McNeil Canyon	1320	3/31/02	17.6	24.0	15.6	113
Middle Fork Bradley	2300	No Report	---	--	34.3	---
Nuka Glacier	1250	No Report	---	--	53.1	143
Summit Creek	1400	3/27/02	16.4	20.8	16.2	96
Turnagain Pass	1880	3/31/02	42.3	65.4	39.82	114

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Bradley Lake	1	91	146
Ninilchik Dome	3	86	135
Northern Kenai Mountains	7	81	132

# Western Gulf

April 1, 2002



## SNOWCOVER:

The region average is 91 percent of normal snow course water content, down from 109 percent last month. The Valdez snow course water content is 77 percent of normal while Worthington Glacier is 92 percent of normal.

For more information, contact the Natural Resources Conservation Service office in Delta Junction: (907) 895-4241.

# Western Gulf

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Exit Glacier	400	4/03/02	66	22.3	79	23.0	--	---
Grouse Creek Divide	700	3/28/02	61	24.0	60	19.0	57	18.4
Lowe River	600	4/02/02	53	18.0	53	17.6	54	17.1
Nuka Glacier	1250	4/01/02	135	57.5	140	63.4	95	39.5
Nuka River	1300	No Report	--	---	172	77.4	95	39.5
Sugarloaf Mountain	530	4/03/02	70	25.0	103	32.6	87	28.0
Tsina River	1650	4/02/02	49	12.8	65	19.0	57	17.6
Valdez	50	4/02/02	45	13.7	55	19.4	54	17.8
Worthington Glacier	2100	4/02/02	61	22.9	87	30.4	72	24.9

## PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

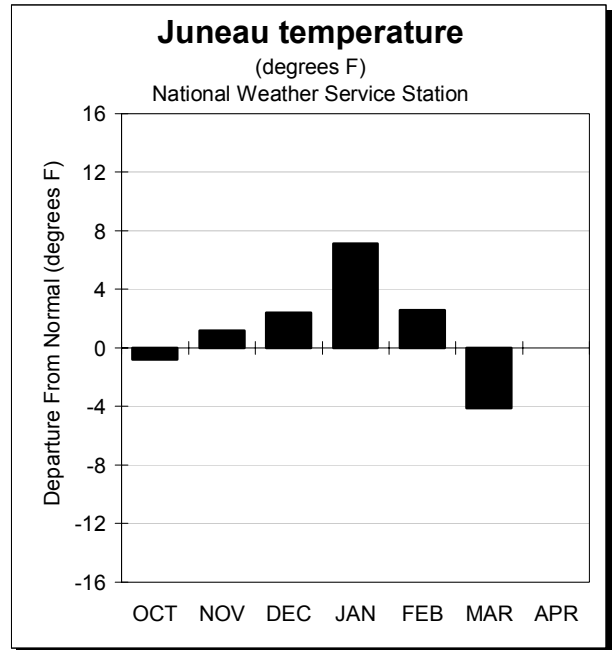
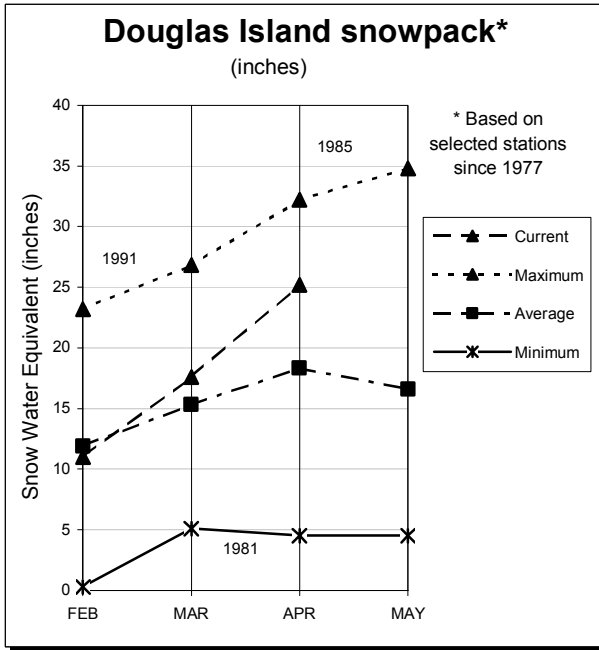
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Grouse Creek Divide	700	3/28/02	36.5	63.7	31.9	111
Nuka Glacier	1250	No Report	--	---	54.7	143
Solomon Gulch	36	3/31/02	33.2	50.4	40.7	88
Sugarloaf Mountain	530	4/03/02	33.0	56.3	40.4	82

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Lowe River (Valdez)	4	80	91

# Southeast

April 1, 2002



## SNOWCOVER:

The Swan Lake snow courses were measured near Ketchikan. The water content for the Upper Swan Lake snow course is 59.7 inches, 246 percent of last year. The Lost Lake snow course has 26.0 inches of water content, last year here was no snow. The precipitation gauge of Swan Lake has caught 92.3 inches since October 1<sup>st</sup>, 105 percent of normal and 118 percent of last year. The Petersburg snow courses are 166 percent of normal and the Douglas Island snow courses are 138 percent of normal.

For more information contact the Anchorage Natural Resources Conservation Service office in Anchorage: (907) 271-2424.

# Southeast

## SNOWPACK DATA

SNOWCOURSE	ELEVATION	DATE	THIS YEAR		LAST YEAR		1971-2000 AVE.	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Cropley Lake	1650	3/29/02	118	42.2	84	28.5	81	30.3
Eagle Crest	1000	3/29/02	85	29.0	43	13.4	54	18.5
Fish Creek	500	3/29/02	15	4.5	0	0.0	19	6.2
Lake Grace Pass	1900	4/03/02	164	61.0	--	---	--	----
Long Lake	1020	4/01/02	120	43.3	74	22.8	--	----
Lost Lake	425	4/03/02	68	26.0	0	0.0	--	----
Mint Creek Ridge	1900	4/03/02	154	57.3	113	48.6	--	----
Moore Creek Bridge	2250	4/01/02	61	19.7	64	20.0	--	----
Petersburg Reservoir	550	3/28/02	45	15.5	0	0.0	15	6.2
Petersburg Ridge	1650	3/28/02	111	38.6	79	24.9	71	26.4
Speel River	280	3/28/02	84	31.5	45	15.2	78	31.1
Upper Swan Lake	1700	4/03/02	142	59.7	64	24.3	--	----

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX *	MIN **
Gold Creek nr Juneau	Apr- Jul	33.0	37.2	114	126	101

\* Max is 90 percentile of subsequent precipitation events

\*\* Min is 10 percentile of subsequent precipitation events

## PRECIPITATION DATA

PRECIPITATION GAUGE	ELEVATION	DATE	INCHES ACCUMULATED SINCE OCTOBER 1 <sup>st</sup>			
			THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Long Lake	820	4/01/02	88.4	94.8	--	--
Snettisham	110	3/31/02	104.3	101.8	106.8	98
Swan Lake	50	3/31/02	92.3	78.5	77.1	105

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	THIS YEAR AS LAST YEAR	PERCENT OF AVERAGE
Douglas Island	3	180	138
Petersburg	2	217	166
Swan Lake	3	142	---



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**Alaska**  
**Basin Outlook Report**  
Natural Resources Conservation Service  
Anchorage, AK

