

United States Department of Agriculture

**NRCS** Natural Resources  
Conservation Service

# Alaska Basin Outlook Report



**March 1, 2004**

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## GENERAL OVERVIEW

### Snowpack

The snowpack water content generally increased below normal across the state. In some areas along the coast, the water content decreased due to warm temperatures and melt. This is shown in Southeast at Petersburg Reservoir and Fish Creek on Douglass Island, which have no snow at the sites. McNeil Canyon, 11 miles northeast of Homer, lost .7 inch of water due to melt and went from 122% of normal February 1<sup>st</sup> to 84% of normal.

The Koyukuk Basin went from near normal to 89% of normal.

With the exception of the Northern Kenai Peninsula Mountains and Flats, Northern Cook Inlet, the Cooper Basin north to Delta Junction and east to Eagle, the state has below normal snow water content. Southeast, with the exception of north at Skagway, is less than 70% of normal snow water content.

### Precipitation

Regions from the Gulf of Alaska to Southeast received greater than normal precipitation. From South Central north, east and west, with a couple of exceptions, received less than normal precipitation for the month of February. These exceptions are the McGrath (122%) and Gulkana (135%) National Weather Service gauges.

### Temperature

All the National Weather Service Temperature Stations in Alaska reported above normal temperatures for the month of February. King Salmon, in Bristol Bay, was 14.1° F. above normal and Eagle, near the Canadian border, was 17.3° F. above normal. The closest to normal was Healy, 0.6° F. above normal. The wind blew hard several times through Healy in February.

## STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

<b>FORECAST POINT*</b>	<b>Percent of Ave. Flow</b>	<b>Period</b>
Yukon River at Eagle .....	105	April - July
Yukon River near Stevens Village.....	104	April - July
Tanana River at Fairbanks.....	96	April - July
Tanana River at Nenana.....	92	April - July
Little Chena River near Fairbanks.....	83	April - July
Chena River near Two Rivers .....	80	April - July
Salcha near Salchaket.....	79	April - July
Sagvanirktok River near Pump Station 3 .....	95	April - July
Kuparuk River near Deadhorse.....	95	April - July
Kuskokwim River at Crooked Creek .....	85	April - June
Gulkana River at Sourdough.....	87	April - July
Little Susitna River near Palmer.....	92	April - July
Talkeetna River near Talkeetna .....	86	April - July
Ship Creek near Anchorage.....	105	April - July
Kenai River at Cooper Landing .....	101	April - July
Gold Creek near Juneau.....	100	April - July

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\* See regional summaries for the forecast period and the actual forecasted flow volumes.

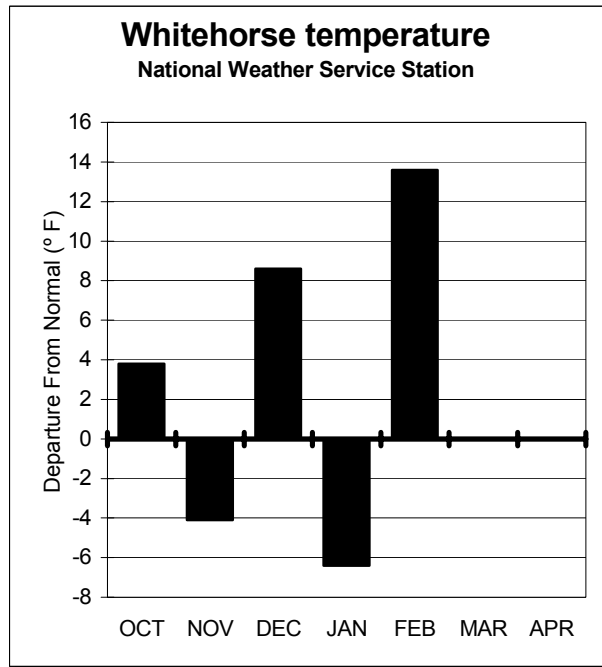
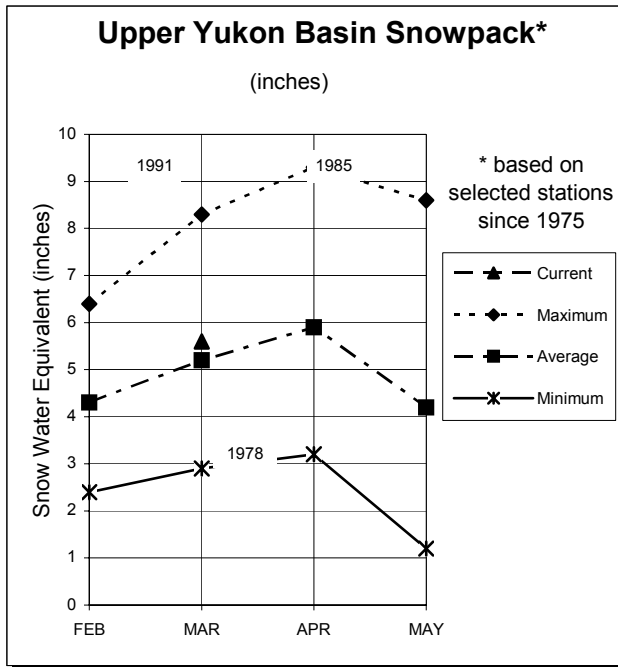
## HOW FORECASTS ARE MADE

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 snow courses 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.

# UPPER YUKON BASIN\*



## Snow Course:

The Stewart/Pelly River Basins are 118% of normal and 166% of last year's snow water content. The lower elevation snow courses are greater than 150% of normal, with May Airport at 175% and Pelly Farm at 160%.

The 3 Dawson area snow courses are 117% of normal, with Grizzly Creek, the highest elevation snow course at 4000 feet, 125% of normal.

From Whitehorse, the snow water content increases percent of normal as reporting sites get closer to the coast.

The Log Cabin snow course has 14.6 inches of water content, 114% of normal.

The forecast for the Yukon River at Eagle for the April through July time period is 35,910,000 acre feet, 105% of normal.

\* For further information contact the Natural Resources Conservation Service in Anchorage.



## Upper Yukon Basin

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	AVERAGE WATER CONTENT
Arrowhead Lake	3680	No Report	--	--	--	--	32	6.6
Atlin	2400	2/29/04	18	3.8	13	4.1	21	4.4
Beaver Creek	2150	3/01/04	17	2.4	8	1.0	17	2.9
Burns Lake	3650	2/26/04	36	8.0	25	5.1	33	7.4
Burwash Airstrip	2660	2/26/04	11	2.4	4	.6	10	1.6
Calumet	4300	2/24/04	34	8.4	--	--	33	6.7
Casino Creek	3500	2/24/04	21	3.8	24	3.5	24	4.0
Chair Mountain	3500	3/01/04	19	3.7	--	--	19	3.3
Duke River	4800	2/26/04	22	4.4	--	--	21	3.7
Edwards Lake	2720	2/25/04	34	8.1	22	4.0	29	5.9
Finlayson Airstrip	3240	2/26/04	16	2.8	16	2.3	26	4.5
Fuller Lake	3700	2/25/04	33	8.3	32	6.6	29	6.0
Grizzly Creek	4000	2/24/04	32	7.5	30	6.5	22	4.1
Hoole River	3560	2/26/04	22	4.2	10	1.6	23	4.6
Jordan Lake	3050	2/26/04	24	5.4	19	3.8	24	4.7
King Solomon Dome	3550	2/25/04	31	6.7	27	4.4	29	5.9
Log Cabin (B.C.)	2880	3/03/04	47	14.6	30	8.1	47	12.8
Mayo Airport	1620	2/24/04	26	6.3	13	1.9	18	3.1
MacIntosh	3800	2/24/04	15	2.5	14	1.8	19	3.6
Meadow Creek	4050	3/01/04	35	9.4	31	7.2	38	9.0
Midnight Dome	2800	2/25/04	30	6.0	22	4.0	27	5.3
Montana Mountain	3340	3/01/04	19	4.9	17	3.3	24	5.1
Morley Lake	2700	3/01/04	23	5.8	23	4.7	24	5.3
Mount Nansen	3250	2/24/04	17	2.0	13	1.7	16	2.6
Mt. Berdoe	3390	2/26/04	21	4.1	15	1.7	21	3.7
Mt. McIntyre B	3700	3/01/04	19	4.0	17	2.6	26	5.2
Pelly Farm	1550	2/26/04	21	4.8	9	1.7	17	3.0
Plata Airstrip	2500	2/25/04	36	8.9	28	5.4	30	6.4
Rackla Lake	3410	2/25/04	35	7.1	26	5.2	33	7.0
Russell Lake	3480	2/25/04	36	8.5	28	5.3	36	7.0
Satasha Lake	3620	2/24/04	14	2.4	10	1.2	21	3.8
Tagish	3540	3/01/04	18	4.4	18	3.5	24	4.8
Twin Creeks	2950	2/25/04	32	7.4	25	4.9	31	6.6
White River	2500	No Report	--	--	--	--	15	2.4
Whitehorse Airport	2300	3/02/04	17	3.5	13	2.0	18	3.5
Williams Creek	2800	2/24/04	20	4.3	13	1.7	18	3.0
Withers Lake	3200	2/25/04	40	8.9	29	6.1	36	8.2

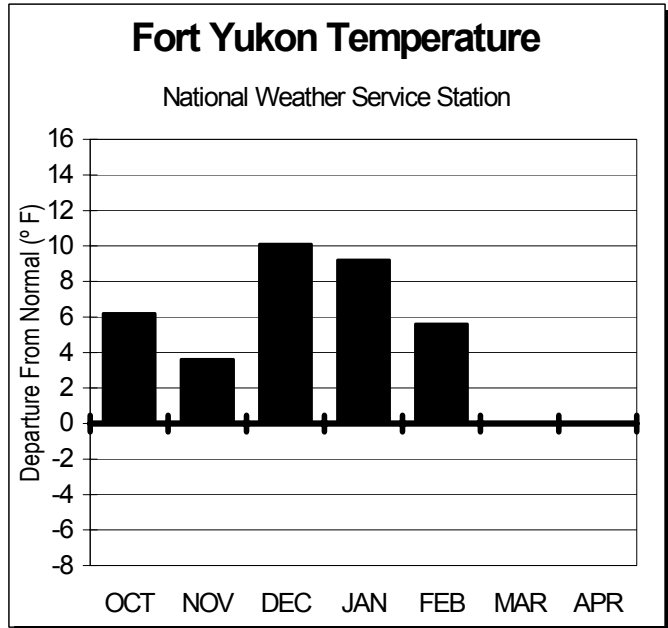
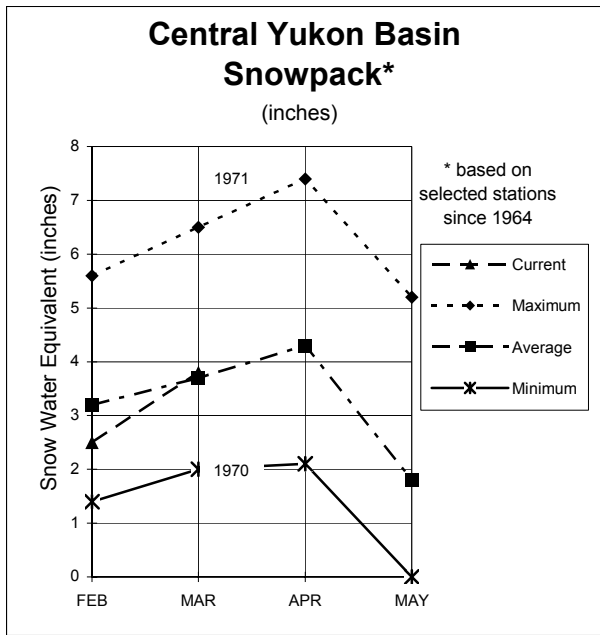
### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Yukon River At Eagle	Apr- Jul	34200	35910	105	41610	30210

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Above Whitehorse/ Tetlin	8	148	103
Dawson	3	136	117
Stewart/ Pelly	13	166	118
White River	6	182	101

## CENTRAL YUKON BASIN\*



### Snowcover:

The Forty Mile Basin snow courses are 117% of normal water content, with the lower elevation snow course at Chicken Airstrip 152% of normal, 4.1 inches of water content.

The Old Crow snow course in the Porcupine Basin is 131% of normal. The Porcupine Basin of the Yukon Territories is 102% with the 4 snow courses averaged.

The White Mountain snow courses between the Steese Highway and the Elliot Highway are 106% of normal. The Windy Gap snow course is 120% of normal.

\* For further information contact the Natural Resources Conservation Service in Fairbanks.

## Central Yukon Basin

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Borealis	1330	2/25/04	23	4.6	23	3.3	27	4.4
Boundary	3500	Delayed	--	--	36	5.8	24	4.6
Chicken Airstrip	1650	2/27/04	19	4.1	14	2.8	16	2.7
Circle City	600	3/01/04	24	3.2	28	4.2	25	3.9
Circle Hot Springs	860	3/01/04	18	2.7	27	4.5	22	3.7
Eagle Plains	2570	2/24/04	29	5.7	30	5.3	29	5.9
Eagle River	1200	2/24/04	27	4.8	28	4.6	26	4.5
Fort Yukon	430	2/28/04	17	2.9	20	3.4	19	3.2
Fossil	1400	2/25/04	21	4.2	22	3.7	28	4.5
Graphite Lake	600	No Report	--	--	--	--	17	2.8
Hess Creek	1000	2/26/04	22	3.8	24	4.5	25	4.8
Lost Chicken Hill	2100	No Report	--	--	15	3.7	19	3.4
Lower Beaver Creek	400	No Report	--	--	--	--	--	--
Mission Creek	900	3/01/04	20	3.5	16	3.8	18	3.6
Mt. Fairplay	3100	2/27/04	19	4.2	17	3.8	20	3.8
Old Crow	840	3/03/04	27	5.1	26	2.8	24	3.9
Riff's Ridge	2130	2/24/04	27	4.1	27	4.3	27	5.1
Seven Mile	600	2/26/04	22	3.8	27	4.5	26	4.6
Stack Pup Creek	1620	3/01/04	20	2.7	27	4.1	24	3.7
Tacoma Bluff	1450	No Report	--	--	--	--	--	---
Thirty Mile	1350	2/26/04	30	5.6	38	6.9	35	7.2
Three Fingers	3350	No Report	--	--	--	--	--	---
Vunzik Lake	500	No Report	--	--	--	--	--	--
Windy Gap	1900	2/25/04	25	5.4	25	4.8	29	4.8
Wolf	1200	2/25/04	20	4.0	22	3.4	26	4.1

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Yukon River near Stevens Village	Apr- Jul	48200	50320	104	56680	43960

### PRECIPITATION DATA

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

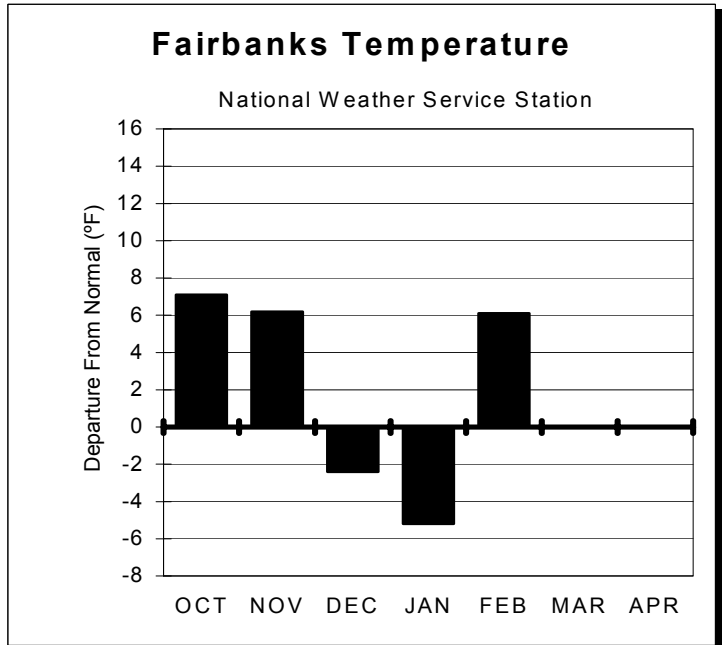
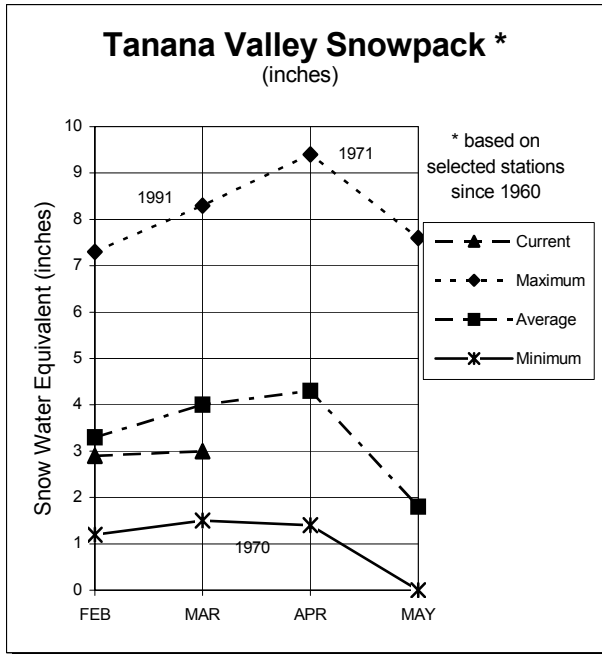
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Atigun Pass**	4800	2/25/04	4.4	6.0	5.0	88
Chandalar Shelf**	3300	2/25/04	4.9	5.8	4.6	106
Fort Yukon	430	2/28/04	2.1	3.1	3.8	55
Mission Creek	900	3/01/04	4.2	5.0	4.0	105

\*\*Wyoming Shielded Gauge

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Forty Mile	3	113	117
Porcupine (Y.T.)	4	116	102
White Mountain	4	122	106
Yukon Flats	3	82	85

# TANANA BASIN\*



## Snowcover:

The Upper Tanana Valley is near normal, with the Tok area snow courses at 96% of normal and the Delta Junction area snow courses at 94% of normal. On the low side, the Tok snow course is 78% of normal and Fielding Lake, south of Delta, is 85% of normal.

The Lower Tanana Valley is much below normal, with the French Creek snow course near Salcha and the Rock Creek Ridge snow course near McKinley Park, at 54% of normal water content.

The 3 snow courses measured to indicate the Chena Basin are 80% of normal.

The Chena River (at Two Rivers) volume flow forecast for the April through July period is 215,000 acre feet, 80% of average.

\* For further information contact the Natural Resources Conservation Service in Fairbanks or Delta Junction.

## Tanana Basin

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Bonanza Creek	1150	3/03/04	20	4.8	10	2.5	23	4.7
Caribou Creek	1250	2/28/04	25	4.0	15	3.8	24	4.6
Caribou Snow Pillow	900	2/28/04	23	3.8	18	3.8	24	4.5
Cleary Summit	2230	3/01/04	30	6.1	23	4.6	29	6.0
Colorado Creek	700	3/03/04	20	3.6	12	2.5	23	4.4
Edgar Creek	2400	No Report	--	--	8	1.6	--	---
Fairbanks FO	450	3/03/04	20	3.5	17	3.2	23	4.1
Faith Creek	1900	3/01/04	24	4.1	22	4.4	27	4.4
Fielding Lake	3000	2/24/04	37	8.7	40	7.8	41	10.2
Fort Greely	1500	2/25/04	19	3.3	0	0.0	18	3.2
French Creek	1800	2/23/04	24	3.2	9	1.8	26	5.9
Gerstle River	1200	2/25/04	19	3.0	8	1.2	19	3.0
Gold King	1700	No Report	--	--	5	1.0	--	---
Granite Creek	1240	2/29/04	17	3.7	8	2.0	19	3.5
Jatahmund Lake	2180	2/25/04	16	3.0	15	2.6	18	2.9
Kantishna	1550	2/26/04	26	4.6	14	2.3	--	---
Lake Minchumina	730	2/24/04	9	1.2	14	1.5	21	4.0
Mentasta Pass	2430	2/24/04	18	3.4	25	5.3	26	5.8
Paradise Hill	2200	2/26/04	19	3.6	8	1.2	18	3.0
Ptarmigan Airstrip	2400	No Report	--	--	5	1.0	--	---
Ptarmigan Creek	2230	3/01/04	22	3.8	23	3.5	17	3.1
Rock Creek Bottom	2250	2/28/04	19	3.7	3	0.4	22	4.2
Rock Creek Ridge	2600	2/28/04*	18	3.2	3	0.3	26	4.9
Shaw Creek Flats	980	2/25/04	19	3.0	2	0.6	17	3.1
Stampede	1800	2/26/04	19	2.8	4	0.4	--	---
Tok Junction	1650	2/24/04	16	2.5	14	2.6	19	3.2
Upper Wood River	2990	No Report	--	--	7	1.5	--	---

\*Estimate

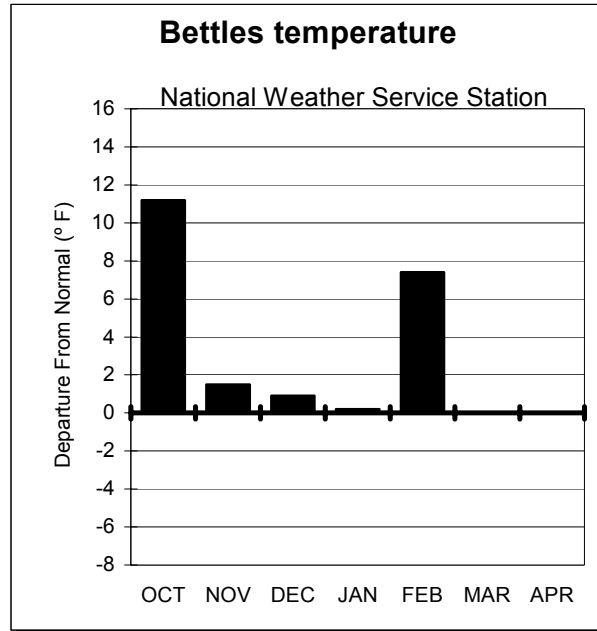
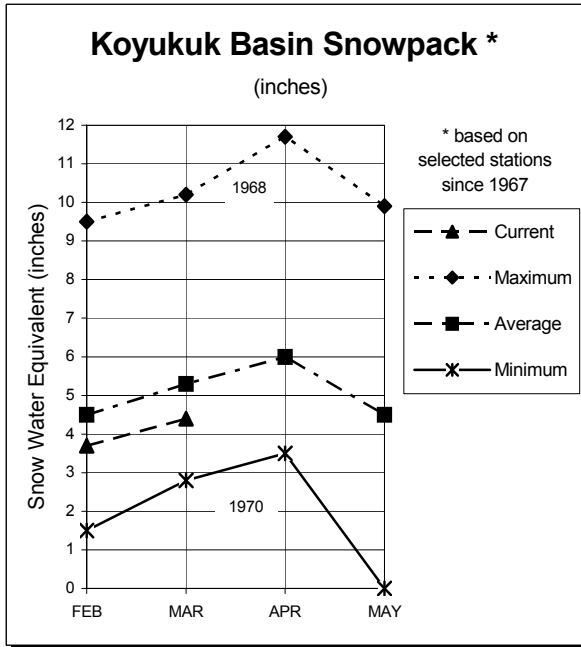
### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30-YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Tanana River at Fairbanks	Apr- Jul	7100	6800	96	7690	5910
Little Chena River near Fairbanks	Apr- Jul	78	65	83	90	40
Chena River near Two Rivers	Apr- Jul	270	215	80	325	122
Salcha River near Salchaket	Apr- Jul	625	495	79	3090	310
Tanana River at Nenana	Apr- Jul	9000	8240	92	9620	6860

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Chatanika	4	108	92
Chena Basin	3	145	80
Lower Tanana Valley	5	190	58
Mid Tanana Valley (Delta Junction)	5	187	94
Upper Tanana Valley (Tok)	4	155	96

## WESTERN INTERIOR BASINS\*



### Snowcover:

#### Koyukuk

The only snow course measured above normal in the Koyukuk Basin was Lake Todatonten, which has 106% of normal water content.

The Gobbler's Knob precipitation gauge, 60 miles south of Coldfoot, has received 8.8 inches of precipitation since the 1<sup>st</sup> of October, 0.2 inches more than last year.

#### Kuskokwim

The McGrath snow course measured 3.8 inches of water content 67 percent of normal for the 1<sup>st</sup> of March. The Lake Minchumina snow course has set a new record minimum for the 1<sup>st</sup> of March of 1.2 inches of water content. There have been extreme winds in western Alaska this winter and the Lake Minchumina snow course has probably been affected by them to some extent.

Purkeypile Mine snow course, in the headwaters of the Swift Fork of the Kuskokwim has 4.0 inches of snow water content, right at 100 percent of normal.

#### Lower Yukon

The Innoko Wildlife Refuge snow courses in the Lower Yukon Basin are 110% of normal and 119% of last year.

\* For further information contact the Natural Resources Conservation Service in Anchorage.

## Western Interior Basins

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
<b>Koyukuk</b>								
Bettles Field	640	No Report	--	--	38	6.5	30	6.1
Bonanza Forks	1200	2/26/04	27	5.1	32	6.3	26	5.1
Coldfoot	1040	2/26/04	27	5.1	35	7.0	30	6.0
Disaster Creek	1550	2/26/04	20	2.9	30	5.0	22	3.6
Kaldoyeit	750	3/01/04	20	4.0	19	3.5	--	---
Kanuti-Chalatna	670	3/01/04	27	5.4	29	5.5	--	---
Kanuti-Kilolitna	550	3/01/04	26	5.2	17	3.2	--	---
Lake Todatonen	550	2/27/04	30	5.4	33	4.9	27	5.1
Minnkokut	580	3/01/04	31	6.5	32	5.8	--	---
Nolitna	560	3/01/04	28	5.5	28	5.3	--	---
Table Mountain	2200	2/26/04	16	2.8	26	5.0	23	4.1
<i>*Estimate</i>								
<b>Kuskokwim</b>								
Lake Minchumina	730	2/24/04	9	1.2	14	1.5	21	4.0
McGrath	340	3/05/04	23	3.8	28	5.2	30	5.7
Purkeypale Mine	2025	2/26/04	24	4.0	--	--	21	4.2
Telaquana Lake	1550	No Report			0	0.0	20	4.0
Upper Twin Lakes	2000	No Report			0	0.0	27	7.0
<b>Lower Yukon</b>								
Grouch Creek	220	No Report	--	--	22	3.5	--	---
Holikachuk	100	3/02/04	35	6.9	30	5.0	--	---
Horsefly Creek	180	3/02/04	27	5.2	24	4.1	--	---
Innoko Cabin	200	3/01/04	22	3.0	--	--	--	---
Menotl Creek	380	3/02/04	44	8.5	36	7.6	--	---
Middle Innoko	150	3/02/04	32	6.3	28	5.0	--	---
Tozikaket	600	No Report	--	--	13	1.5	23	4.4
Upper Innoko	180	3/02/04	33	6.5	32	6.5	--	---
Wapoo Hills	220	3/02/04	32	6.6	26	4.6	--	---
Yankee Slough	100	3/02/04	46	9.0	37	7.7	--	---
Yetna River	120	3/02/04	32	6.3	--	--	--	---

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Kuskokwim River at Crooked Creek	Apr- Jul	10500	8960	85	12410	5510

### PRECIPITATION DATA

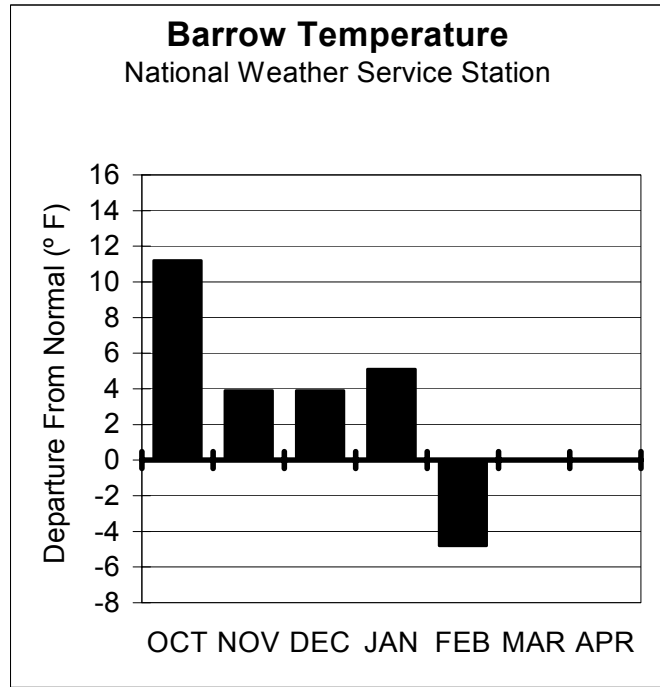
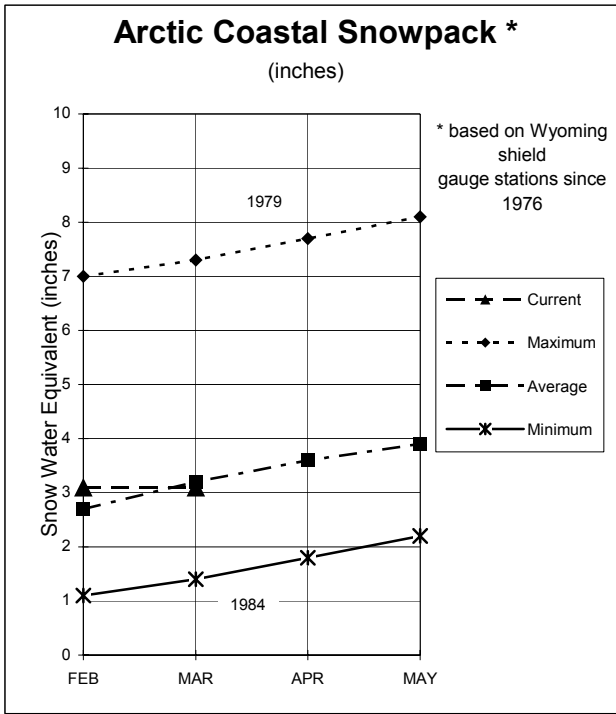
INCHES ACCUMULATED SINCE OCTOBER 1<sup>st</sup>

PRECIPITATION GAUGE	ELEVATION	DATE	THIS YEAR	LAST YEAR	71- 2000 AVE	% OF AVERAGE
Bettles Field	640	No Report		6.7	5.7	--
Coldfoot	1040	2/26/04	5.3	7.9	5.5	96
Gobblers Knob	2030	2/26/04	8.8	8.6	8.4	105

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Koyukuk	5	80	89
Upper Kuskokwim	3	75	65

# ARCTIC AND KOTZEBUE SOUND\*



## Snowcover:

### Arctic

The Barrow precipitation measurement since October 1<sup>st</sup> is 103% of normal. The Atigun Camp and Imnaviat Creek precipitation gauges are 58% of normal along the Dalton Highway.

### Kotzebue

No report from the Kugaruk snow course. The Red Dog mine precipitation gauge is 74% of normal since October 1<sup>st</sup>, it received .37 inches of precipitation in February.

\* For further information contact the Natural Resources Conservation Service in Anchorage.



## Arctic and Kotzebue Sound

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Kugaruk	225	No Report	--	--	---	---	--	--

### PRECIPITATION DATA

#### INCHES ACCUMULATED SINCE OCTOBER 1<sup>ST</sup>

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
<b>Arctic</b>						
Atigun Camp	3400	2/25/04	2.3	2.7	3.5	66
Atigun Pass	4800	2/25/04	4.4	6.0	5.0	88
Barrow	25	3/01/04	2.7	1.6	2.6	103
Imnaviat Creek	3050	3/01/04	1.7	3.5	3.4	50
Prudhoe Bay	30	No Report	--	--	3.4	--
<b>Kotzebue Sound</b>						
Red Dog**	950	2/29/04	3.8	4.4	5.1	74

\*\* Wyoming Shielded Gauge

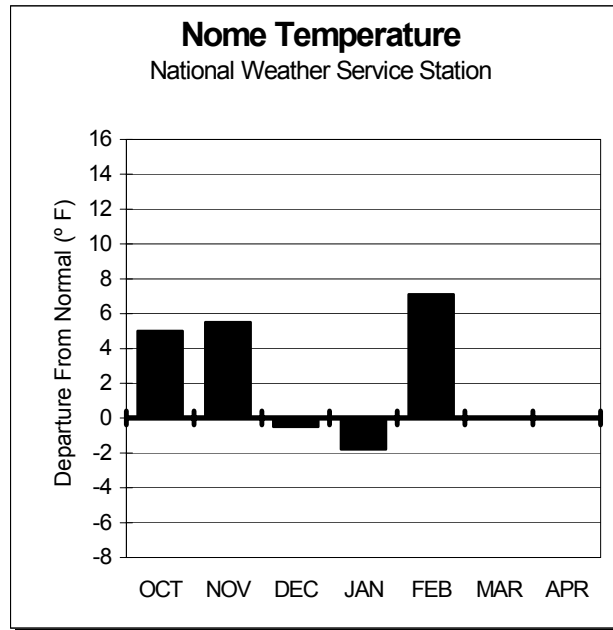
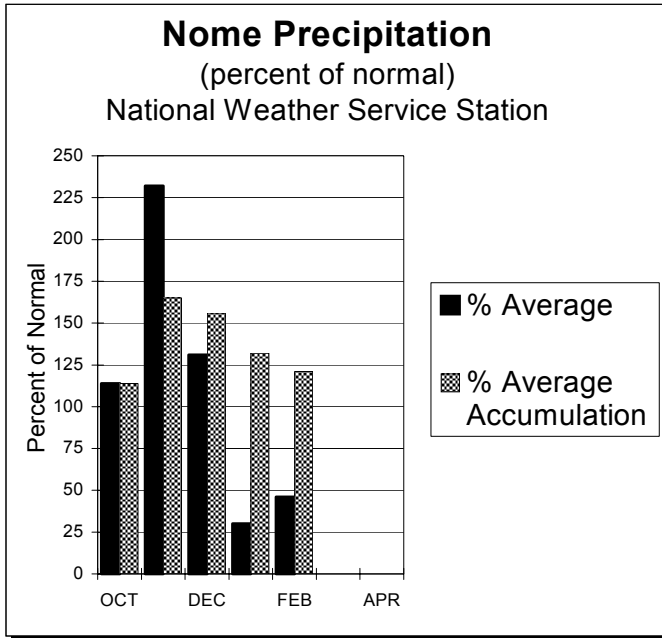
### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Sagvanirktok River near Pump Station 3	Apr- Jul	685	650	95	795	505
Kuparuk River near Deadhorse	April - Jul	795	755	95	995	515

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Arctic Coast	1	169	103
Dalton Highway	2	64	58

## NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY\*



### Snowcover:

#### Norton Sound

The Rocky Point precipitation gauge has received the same amount as last year, 5.2 inches. The snow depth is 7 inches; however, much has been blown away.

The Pargon Creek snow depth is 6 inches as of the 29<sup>th</sup> of February, compared to last year's 14 inches. The Seward Peninsula has received an extreme amount of wind this year, making it very tough to travel by snow machine.

#### Southwest Delta/Bristol Bay

The Port Alsworth snow course is 105% of normal for March 1<sup>st</sup>. With the King Salmon average monthly temperature 14.1° F. above normal, very little snow remains on the ground. Two inches of snow were measured on the ground by the National Weather Service Observer on February 29<sup>th</sup>.

\* For further information contact the Natural Resources Conservation Service in Anchorage.

# Norton Sound / Southwest Delta / Bristol Bay

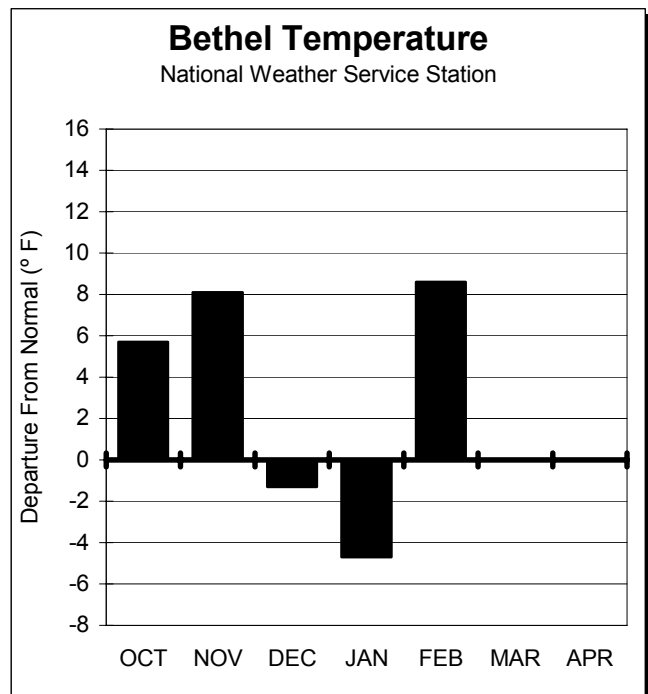
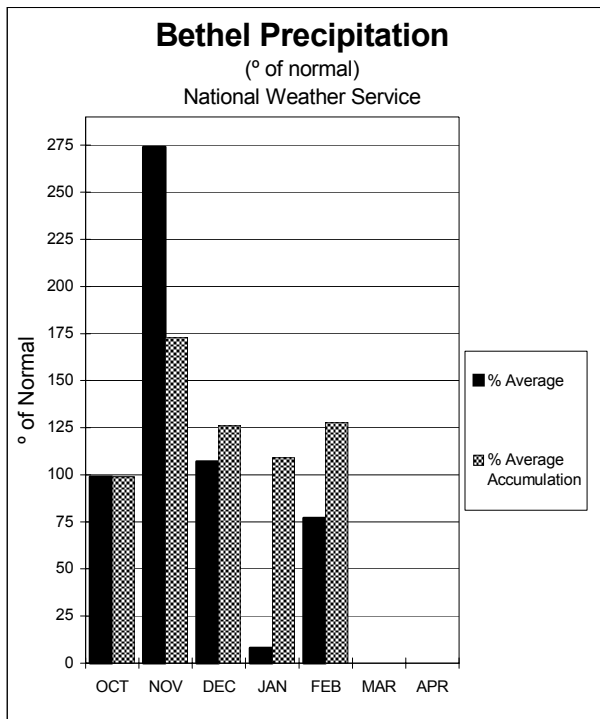
## SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
<b>Bristol Bay</b>								
Brooks Camp	150	No Report			--	---	38	2.0
Fishtrap Lake	1800	No Report			12	3.7	40	9.7
Port Alsworth	270	3/04/04	19	4.4	0	0.0	15	4.2
Three Forks	1300	No Report			--	---	---	---
Upper Twin Lakes	2000	No Report			0	0.0	27	7.0

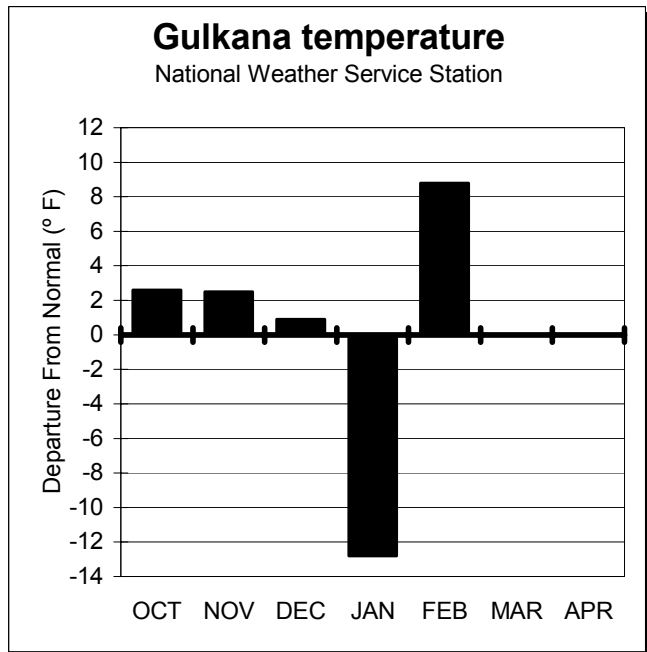
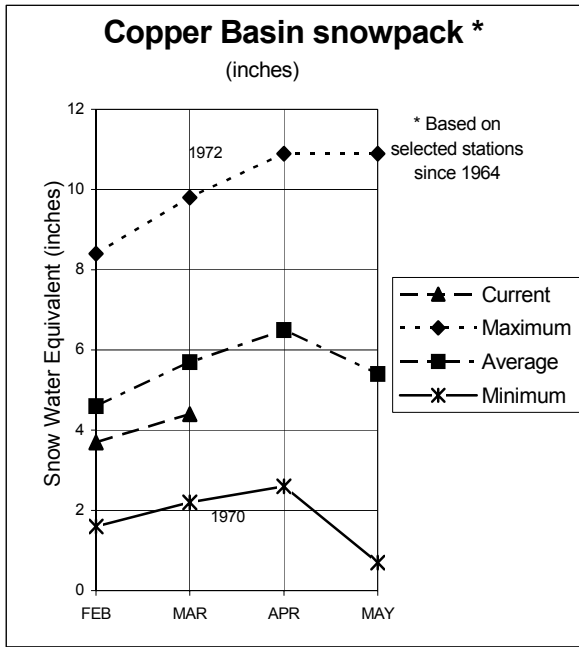
## PRECIPITATION DATA

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

Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Pargon Creek	100	No Report		5.6	--	--
Rocky Point	500	3/01/04	5.2	5.2	--	--



# COPPER BASIN\*



## Snowcover:

The Basin floor varies from 57% of normal to the north, along the Richardson Highway, to 138% of normal to the south at Kenny Lake. To the west, near the Talkeetna Mountains, the 3 snow courses averaged are 91% of normal. The Chugach Range is 106% of normal and the Wrangle Mountains are 85% of normal, with Dadina Lake right at 100% water content. The Upper Tsaina River precipitation gauge has received 22.1 inches since October 1<sup>st</sup>, up 5.0 inches from last month.

\* For more information contact the Natural Resources Conservation Service in Copper Center, Delta Junction or Anchorage.

## Copper Basin

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Chistochina	1950	2/24/04	15	2.1	17	3.6	22	3.5
Dadina Lake	2160	3/01/04	27	5.1	21	4.2	29	5.1
Haggard Creek	2540	2/24/04	22	3.2	26	5.5	27	5.6
Horsepasture Pass	4300	3/01/04	29	5.4	33	6.9	28	5.6
Kenny Lake School	1300	2/26/04	20	4.7	13	3.3	18	3.4
Lake Louise	2400	2/27/04	21	3.2	16	2.7	22	4.0
Little Nelchina	2650	2/27/04	26	5.0	14	2.2	24	4.6
Mentasta Pass	2430	2/24/04	18	3.4	25	5.3	26	5.8
Monsoon Lake	3100	3/02/04	23	5.1	22	4.0	28	5.6
Paxon	2650	2/24/04	27	4.9	33	6.5	31	6.6
Sanford River	2280	3/01/04	21	3.8	12	2.8	28	5.4
St. Anne Lake	1990	3/01/04	24	4.4	17	3.4	25	4.9
Tazlina	1225	2/26/04	20	4.0	10	3.0	--	---
Tolsona Creek	2000	2/26/04	20	4.0	16	3.2	22	3.8
Tsaina River	1650	2/27/04	46	12.0	44	13.8	56	15.7
Twin Lakes	2400	3/01/04	30	6.0	21	4.2	31	5.9
Upper Tsaina River	1750	2/27/04	59	17.1	new		---	---
Worthington Glacier	2100	2/27/04	67	21.3	62	21.5	68	21.6

### PRECIPITATION DATA

#### INCHES ACCUMULATED SINCE OCTOBER 1<sup>ST</sup>

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Upper Tsaina River	1750	2/29/04	22.1	New	--	--

### STREAMFLOW FORECASTS

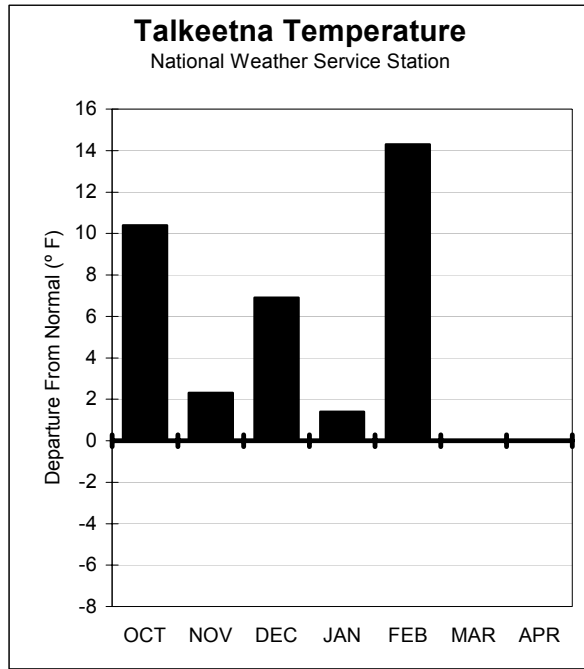
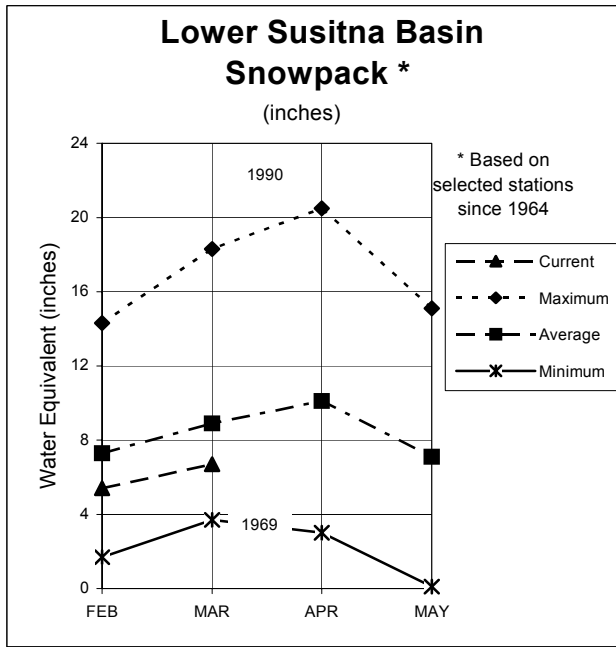
FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Gulkana River at Sourdough	Apr- Jul	475	415	87	580	250

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Alaska Range	4	94	79
Basin Floor	6	100	84
Chugach Range	3	139	106
Talkeetna Mountains	3	94	91
Wrangell Mountains	2	102	85

\*At the foot of the Alaska Range.

## MATANUSKA - SUSITNA BASINS\*



### Snowcover:

The Little Susitna snow courses are 76 percent of normal, with Archangel at 71% and Independence Mine at 78% of normal.

The Lower Susitna has Talkeetna at 67 percent of normal and Willow and Alexander Lake at 80% of normal snow water content.

The Talkeetna River April through July volume flow forecast is 1,400,000 acre feet, 86% of normal.

\* For more information contact the Natural Resources Conservation Service in Wasilla.

## Matanuska - Susitna Basins

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Alexander Lake	160	2/25/04	36	8.6	26	6.5	43	10.7
Archangel Road	2200	2/25/04	36	9.6	37	6.3	47	13.5
Bentalit Lodge	150	No Report	--	--	--	--	35	8.0
Blueberry Hill	1200	2/25/04	37	10.0	43	8.9	53	13.8
Chelatna Lake	1450	3/03/04	45	10.0	35	6.8	42	10.0
Clearwater Lake	2650	3/02/04	26	4.7	20	3.0	26	5.1
Curtis Lake	2850	3/01/04	22	3.9	--	--	---	---
Denali View	700	2/25/04	30	8.0	33	5.8	46	11.4
Dutch Hills	3100	3/03/04	62	15.8	75	20.0	76	23.0
E. Fork Chulitna	1800	2/28/04	41	9.6	46	11.2	51	12.7
Eldridge Glacier	3400	3/03/04	9	2.5	--	--	--	--
Fishhook Basin	3300	3/02/04	50	13.6	63	14.9	58	17.7
Fog Lakes	2120	No Report	--	--	15	2.9	26	5.3
Halfway Slough	350	2/25/04	27	5.7	8	1.3	--	--
Independence Mine	3550	3/02/04	56	16.5	83	22.1	68	21.2
Lake Louise	2400	2/27/04	21	3.2	16	2.7	22	4.0
Little Susitna	1700	2/25/04	30	8.3	27	5.1	42	11.6
Monahan Flat	2710	No Report	--	--	27	4.8	34	7.4
Moose Creek Ranch	450	2/27/04	13	2.6	3	0.7	--	---
Nugget Bench	2010	3/03/04	50	11.5	45	9.2	51	12.9
Ramsdyke Creek	2220	3/03/04	62	14.5	61	14.2	66	18.9
Sheep Mountain	2900	2/27/04	24	4.6	20	4.5	26	5.4
Skwentna	160	2/25/04	32	7.6	26	6.3	43	10.5
Square Lake	2950	3/01/04	20	3.5	21	3.0	22	3.8
Susitna Valley High	375	3/02/04	30	6.4	10	1.9	39	8.3
Talkeetna	350	2/25/04	23	5.1	9	1.5	32	7.6
Tokositna Valley	850	3/03/04	58	13.7	46	10.0	67	15.7
Tyone River	2500	3/01/04	25	4.2	24	4.5	23	4.4
West Fork Yentna	950	Delayed	--	--	--	--	--	--
Willow Airstrip	200	2/25/04	26	5.5	9	2.4	30	6.9

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Little Susitna River near Palmer	Apr- Jul	86	79	92	105	53
Talkeetna River near Talkeetna	Apr-Jul	1630	1400	86	1680	1120

### PRECIPITATION DATA

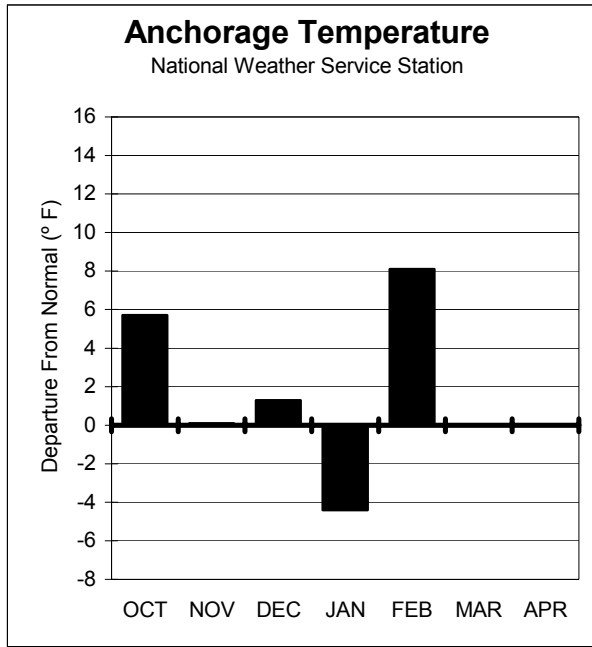
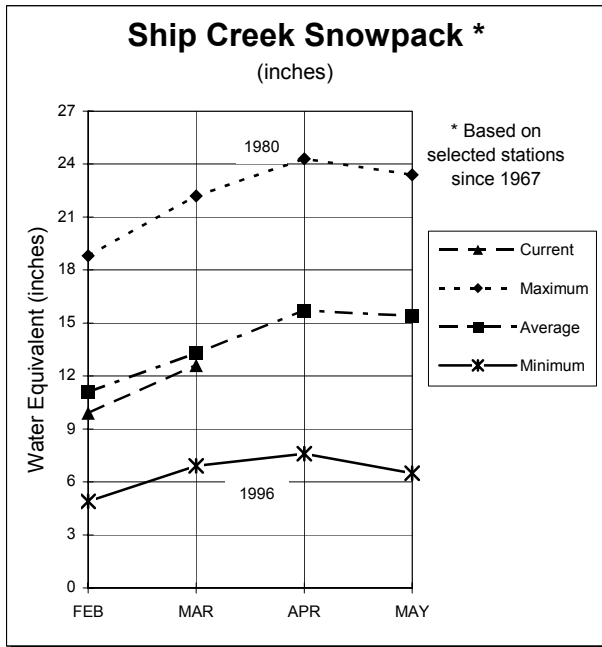
INCHES ACCUMULATED SINCE OCTOBER 1<sup>ST</sup>

Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Susitna Valley	375	2/28/04	8.4	11.1	10.3	82

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Lower Susitna	4	160	75
Matanuska/Little Susitna	5	99	76
Peters Hills	3	102	79
Upper Susitna	3	91	91

# NORTHERN COOK INLET\*



## Snowcover:

The Kincaid Park snow course (250 foot elevation) in Anchorage has 7.0 inches of water content, 163% of normal. The South Campbell Creek snow course (1200 foot elevation) has 6.8 inches of snow water content, 110% of normal. This percent of normal reduces as the elevation increases. Indian Pass (2350 foot elevation) is 90% of normal snow water content. Snow started a month late on November 7<sup>th</sup>, including the higher elevations. The Indian Pass normal water content on November 7<sup>th</sup> is 3.9 inches.

On the west side of Cook Inlet, the 3 Beluga snow courses near Tyonek are 90 percent of normal.

At the end of Turnagain Arm, the Portage Valley snow course is 137% of normal, and Turnagain Pass is 92% of normal.

\* For more information contact the Natural Resources Conservation Service in Wasilla or Anchorage.



# Northern Cook Inlet

## SNOW PACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Anchorage Hillside	2080	2/27/04	35	9.5	12	4.1	35	8.9
Arctic Ski Bowl	3000	3/01/04	30	8.6	21	6.5	38	11.9
Arctic Valley #1	500	3/01/04	20	5.1	0	0.0	17	3.9
Arctic Valley #2	1000	3/01/04	24	4.9	0	0.0	20	4.6
Arctic Valley #3	1450	3/01/04	30	7.5	9	2.7	28	6.9
Arctic Valley #4	2130	3/01/04	30	7.8	10	3.1	27	6.9
Chuitna Plateau	1540	2/25/04	60	20.8	66	22.8	65	20.8
Congahbuna Lake	500	2/25/04	33	9.0	18	4.3	32	8.9
Granite Point	250	2/25/04	17	4.0	2	0.5	22	5.6
Indian Pass	2350	2/29/04*	56	17.7	41	13.6	64	19.7
Kincaid Park	250	3/02/04	27	7.0	0	0.0	17	4.0
Lone Ridge	1675	2/25/04	66	23.0	61	19.0	79	28.8
Moraine	2100	2/29/04*	28	7.4	8	2.4	--	--
Mt. Alyeska	1540	No Report	--	--	64	21.3	94	30.7
Point Mackenzie	200	2/25/04*	22	5.0	6	1.7	21	4.8
Portage Valley	50	3/01/04	46	17.7	0	0.0	39	12.9
South Campbell Creek	1200	2/27/04	28	6.8	4	1.6	26	6.2

\*Estimate

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Ship Creek near Anchorage	Apr- Jul	58	61	105	74	48

## PRECIPITATION DATA

### INCHES ACCUMULATED SINCE OCTOBER 1<sup>ST</sup>

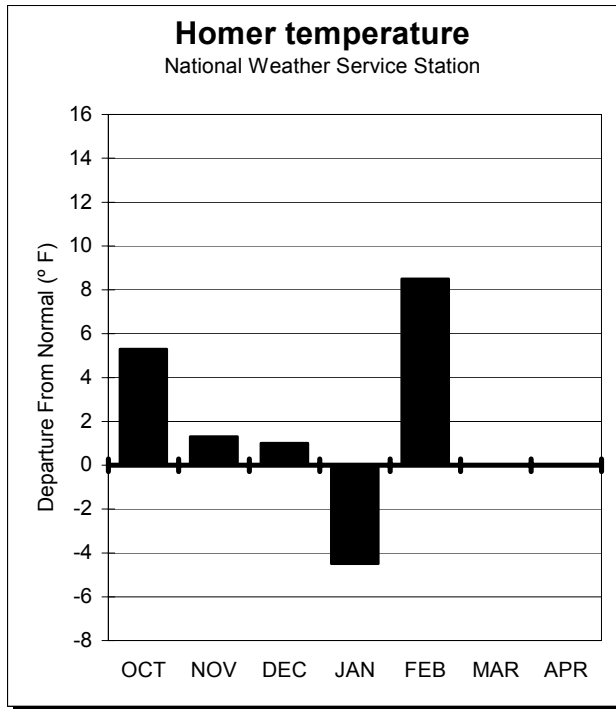
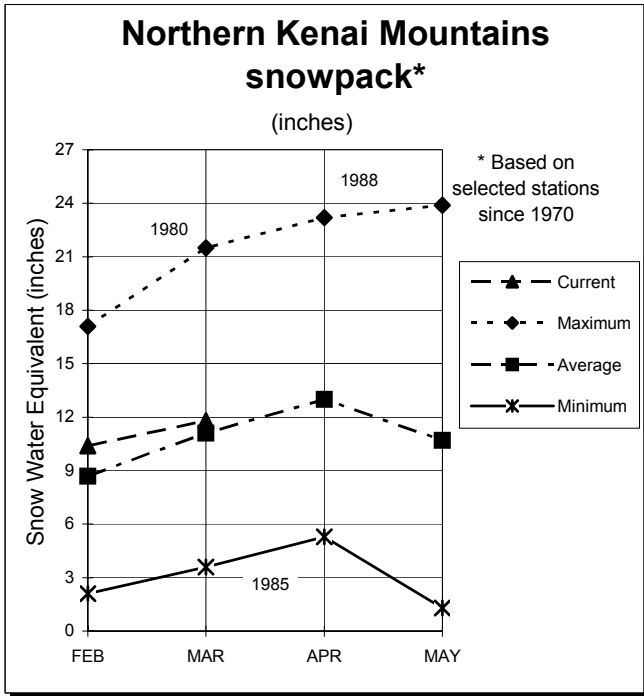
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Indian Pass	2350	3/01/04	20.9	25.8	21.1	99
Mt. Alyeska	1540	No Report		64.0	37.5	
Point Mackenzie	200			6.8	6.9	

\*Estimate

## WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Beluga	3	115	90
Campbell Creek	2	286	108
Ship Creek	3	168	99
Turnagain Arm	1	119	92

# KENAI PENINSULA\*



## Snowcover:

In the Northern Kenai Mountains, the same scenario exists--the low elevation snow courses are much above normal snow water content and the higher elevation snow course water contents are average or below normal snow water content. The extremes are Jean Lake at 222% of normal and Turnagain Pass at 92% of normal. The Northern Kenai Flats are also much above normal, with the Kenai Moose Pens SNOTEL site showing 29 inches of snow depth, 6.8 inches of water content, which is 179% of normal.

For the southern Kenai Peninsula, warm temperatures melted away snow at lower elevations. McNeil Canyon School was reduced from 8.7 inches of snow water content to 8.0 inches, 84% of normal.

Across Kachemak Bay, the Nuka Glacier snow course water content is 27.5 inches, 102% of normal. The Port Graham SNOTEL site went from 14 inches of snow depth and 4.1 inches of water content January 31<sup>st</sup> to 8 inches of snow depth and 2.8 inches of water content on February 29<sup>th</sup>.

\* For more information contact the Natural Resources Conservation Service in Homer.

## Kenai Peninsula

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Bertha Creek	950	2/27/04	46	14.8	20	6.7	51	14.7
Bridge Creek	1300	3/03/04	30	8.5	7	2.3	38	10.2
Cooper Lake	1200	2/29/04	48	15.5	13	4.0	47	13.2
Demonstration Forest	780	3/03/04	19	6.3	0	0.0	28	7.7
Eagle Lake	1400	3/03/04	39	11.3	--	--	38	10.7
Grandview	1100	2/29/04*	70	26.4	31	11.3	75	24.7
Grouse Creek Divide	700	2/29/04	58	19.5	16	4.2	51	15.1
Jean Lake	620	2/29/04	29	8.4	0	0.0	17	3.8
Kenai Moose Pens	300	2/29/04*	29	6.8	0	0.0	17	3.8
Kenai Summit	1390	2/27/04	41	12.3	24	7.1	44	12.3
McNeil Canyon	1320	3/01/04	29	8.0	6	2.0	36	9.5
Moose Pass	700	2/27/04	24	8.4	0	0.0	22	6.3
Nanwalek	500	No Report	--	--	--	--	--	--
Nuka Glacier	1250	3/03/04	90	27.5	36	10.7	69	26.9
Port Graham	300	2/29/04*	8	3.5	0	0.0	--	---
Snug Harbor Road	500	2/29/04	29	10.6	0	0.0	20	5.1
Summit Creek	1400	2/27/04	36	9.9	18	5.0	38	10.4
Turnagain Pass	1880	2/29/04*	80	26.9	70	22.6	92	29.2

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Kenai River at Cooper Landing	Apr- Jul	925	935	101	1025	845

### PRECIPITATION DATA

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

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Cooper Lake	1200	2/29/04	30.1	45.1	20.7	145
Grandview	1100	3/01/04	38.1	52.7	33.1	115
Grouse Creek Divide	700	2/29/04	36.2	59.1	30.6	118
Kenai Moose Pens	300	3/01/04	9.1	6.2	7.3	125
McNeil Canyon	1320	2/29/04	13.5	22.8	13.6	99
Middle Fork Bradley**	2300	3/03/04	26.9	65.9	30.6	88
Nuka Glacier**	1250	3/03/04	51.9	98.6	48.1	108
Port Graham	300	3/01/04	38.1	61.4	---	---
Summit Creek	1400	2/27/04	14.6	23.0	14.3	102
Turnagain Pass	1880	3/01/04	36.1	50.8	34.0	106

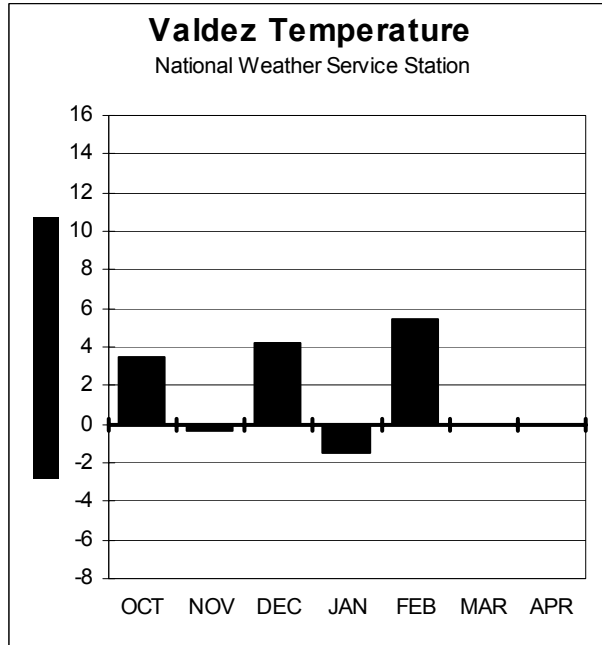
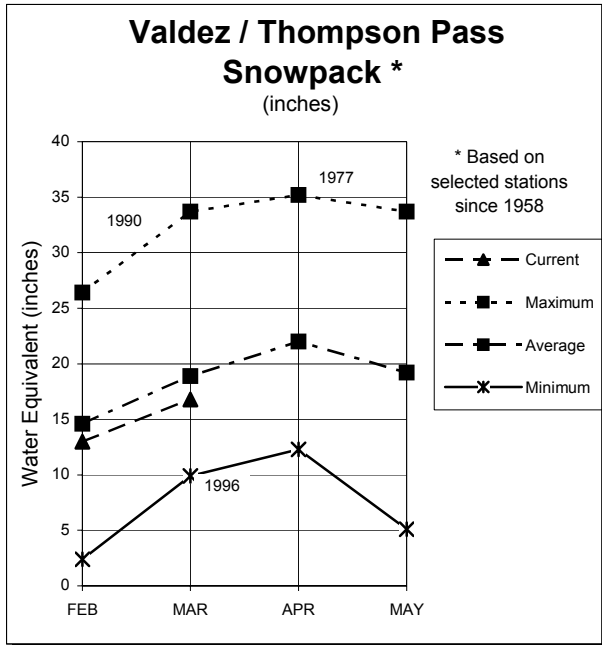
\*Estimate

\*\*Wyoming Shielded gauge

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Bradley Lake	1	257	102
Ninilchik Dome	3	335	91
Northern Kenai Flats	1	-0-	179
Northern Kenai Mountains	7	212	107

## WESTERN GULF\*



### Snowcover:

The Grouse Creek Divide snow pass course, mile 12 of the Seward Highway, has 19.5 inches of snow water content, 128% of normal.

On the east side of the Gulf, the Valdez snow course is 84% of normal, with 39 inches of snow and 13.0 inches of water content. The Sugarloaf Mountain precipitation gauge has received 32.4 inches since October 1<sup>st</sup>, 89% of normal.

\* For more information contact the Natural Resources Conservation Service in Copper Center.

## Western Gulf

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Exit Glacier	400	No Report	--	--	19	6.9	53	13.7
Grouse Creek Divide	700	2/29/04	58	19.5	16	4.2	51	15.1
Low River	600	2/27/04	47	15.0	43	12.8	53	15.1
Nuka Glacier	1250	3/03/04	90	27.5	36	10.7	69	26.9
Sugarloaf Mountain	550	2/26/04	60	17.7	63	17.4	79	23.3
Tsaina River	1650	2/26/04	46	12.0	44	13.8	56	15.7
Upper Tsaina River	1750	2/27/04	59	17.1	new	--	---	---
Valdez	50	2/27/04	39	13.0	43	14.4	51	15.5
Worthington Glacier	2100	2/27/04	67	21.3	62	21.5	68	21.6

### PRECIPITATION DATA

#### INCHES ACCUMULATED SINCE OCTOBER 1<sup>ST</sup>

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Grouse Creek Divide	700	2/29/04	36.2	59.1	30.6	119
Nuka Glacier**	1250	3/03/04	51.9	98.6	48.1	108
Solomon Gulch*	36	2/29/04	26.6	47.3	75.0	75
Sugarloaf Mountain	550	2/25/04	32.4	58.1	36.3	89
Upper Tsaina River	1750	3/01/04	15.3	New	--	--

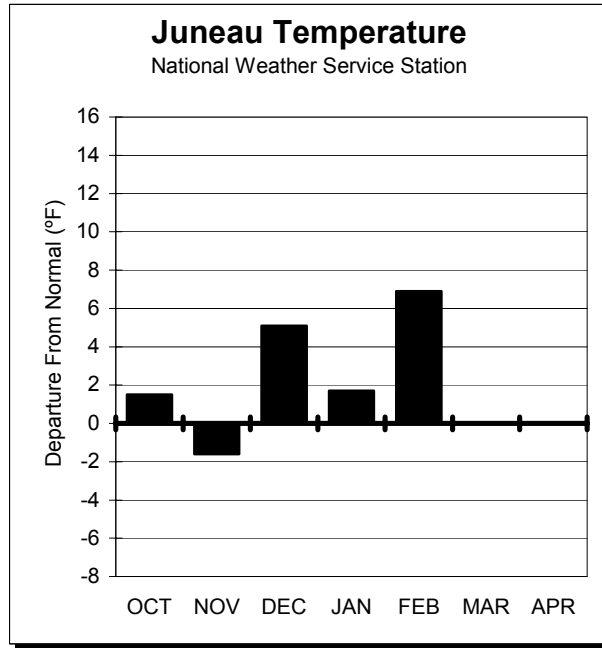
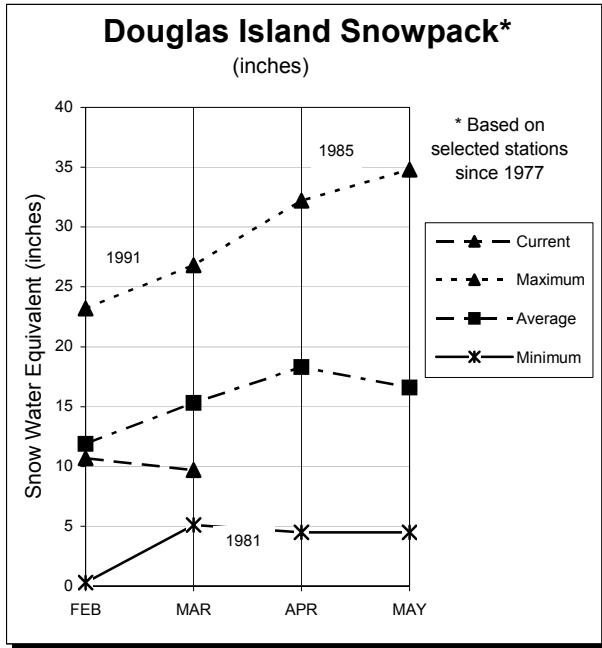
\*\*Wyoming Shielded Gauge

\*Copper Valley Electric Association

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Low River (Valdez)	4	102	89

# SOUTHEAST\*



## Snowcover:

No snow was measured at 2 of the lower elevation snow courses in Southeast Alaska, Petersburg Reservoir near Petersburg and Fish Creek on Douglas Island.

It is estimated that the Long Lake SNOTEL site had on February 27<sup>th</sup> 77 inches of snow depth and 28.5 inches of water content.

The Moore Creek Bridge snow course, as of March 1<sup>st</sup>, has 66 inches of snow and 22.9 inches of snow water content. The precipitation gauge at Moore Creek Bridge has received 19.8 inches since October 1<sup>st</sup>.

\* For further information contact the Natural Resources Conservation Service in Anchorage.

## Southeast

### SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Cropley Lake	1650	2/28/04	51	20.6	34	11.6	70	23.9
Eagle Crest	1200	2/28/04	24	8.6	16	5.4	48	16.1
Fish Creek	500	2/28/04	0	0.0	5	1.2	20	6.0
Long Lake	425	2/27/04*	71	28.5	68	19.1	--	---
Moore Creek Bridge	2250	3/01/04	66	22.9	40	8.2	73	23.7
Petersburg Reservoir	550	3/01/04	0	0.0	6	1.0	18	5.8
Petersburg Ridge	1650	3/01/04	43	17.8	32	7.4	65	21.8
Speel River	280	3/04/04	81	27.0	40	16.9	75	26.8

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Gold Creek near Juneau	Apr- Jul	33	33	100	39	27

### PRECIPITATION DATA

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

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Long Lake	1020	2/26/04	77.0	81.5	--	--
Snettisham	25	2/29/04	87.4	85.6	95.2	92
Swan Lake	50	2/29/04	104.7	81.6	77.8	135
Moore Creek Bridge	2250	3/01/04	19.8	--	--	--

### WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Douglas Island	3	160	63
Long Lake	1	149	--
Petersburg	2	212	64

For further information contact:

NRCS Alaska web site: [www.ak.nrcs.gov](http://www.ak.nrcs.gov)

Alaska Meteor Burst Communication System (AMBCS) web site: **[ambcs.org](http://ambcs.org)**

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Mat-Su Field Office

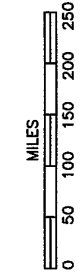
District Conservationist

Telephone (907) 373-6492

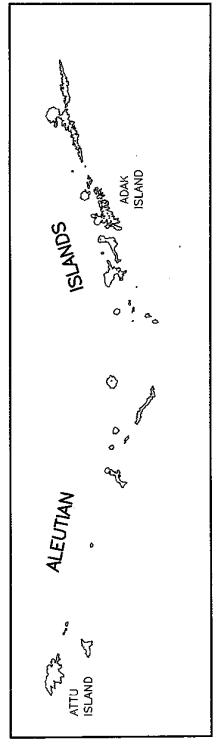
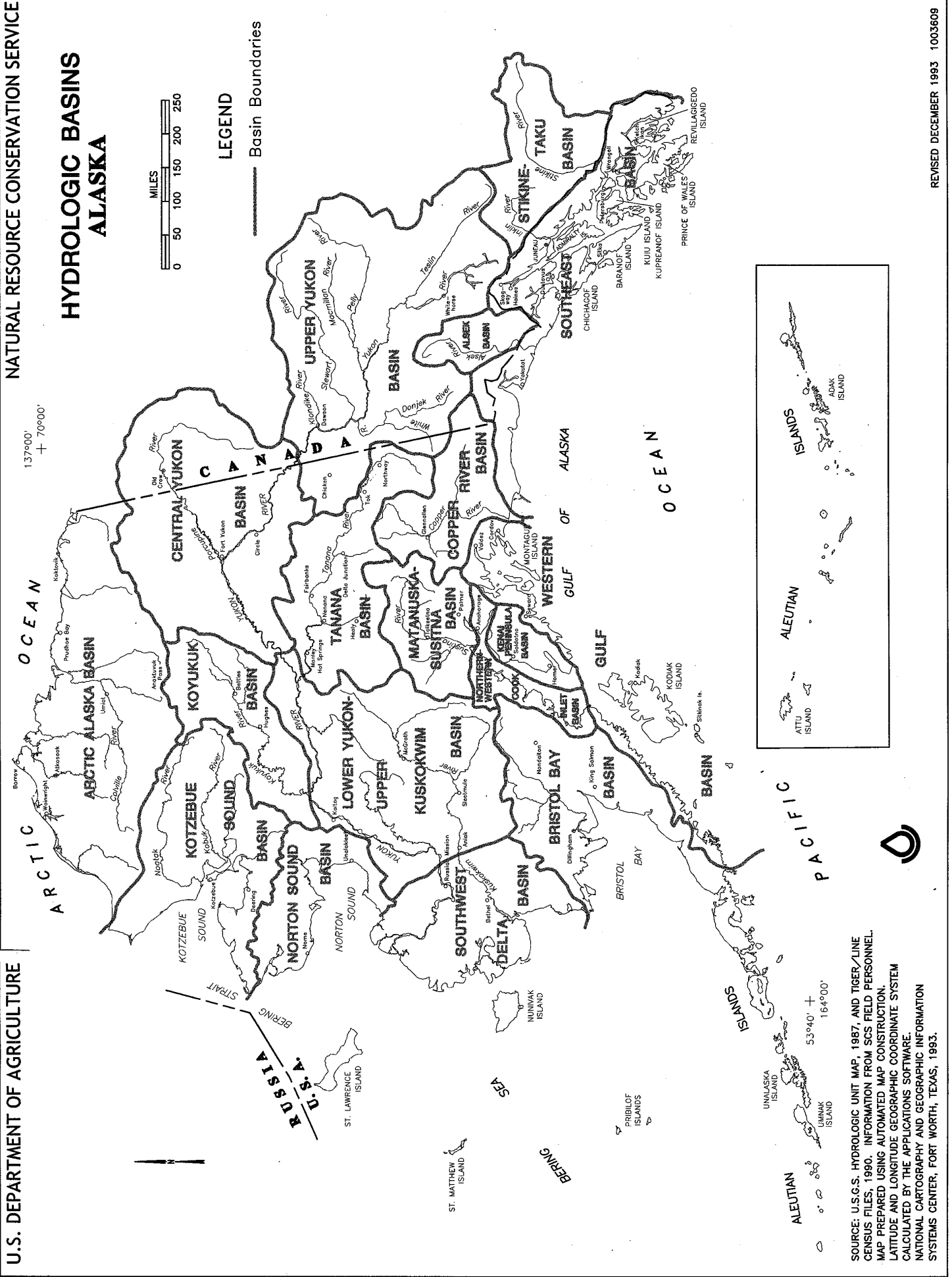
Facsimile: (907) 373-7192



# HYDROLOGIC BASINS ALASKA



**LEGEND**  
— Basin Boundaries



SOURCE: U.S.G.S. HYDROLOGIC UNIT MAP, 1967, AND TIGER/LINE CENSUS FILES, 1990. INFORMATION FROM SCS FIELD PERSONNEL. MAP PREPARED USING AUTOMATED MAP CONSTRUCTION. LATITUDE AND LONGITUDE GEOGRAPHIC COORDINATE SYSTEM CALCULATED BY THE APPLICATIONS SOFTWARE. NATIONAL CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS CENTER, FORT WORTH, TEXAS, 1993.



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Natural Resources Conservation Service  
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