United States Department of Agriculture

NRCS Natural Resources Conservation Service

ALASKA SNOW SURVEY REPORT

May 1, 2009

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

Federal

Department of Agriculture
- Forest Service
  - Chugach National Forest
  - Tongass National Forest

Department of Commerce
- NOAA, Alaska Pacific RFC
- Climate Monitoring and Diagnostics Laboratory

Department of Defense
- U.S. Army Corps of Engineers
- U.S. Army Cold Regions Research and Engineers Laboratory

Department of Interior
- Bureau of Land Management
- Geological Survey
- Fish and Wildlife Service
- National Park Service

Alaska State

Department of Fish and Game

Department of Transportation and Public Facilities

Department of Natural Resources
- Division of Parks
- Division of Mining and Water
- Division of Forestry

Alaska Energy Authority

Alaska Railroad

Soil and Water Conservation Districts
- Homer SWCD
- Palmer SWCD

University of Alaska
- Agriculture & Forestry Experiment Station
- Geophysical Institute
- Water & Environmental Research
- Reindeer Research Program
- Institute of Arctic Biology LTER

Municipalities

- Anchorage
- Juneau

Private

- Alaska Electric, Light and Power, Juneau
- Alyeska Resort, Inc.
- Alyeska Pipeline Service Company
- Anchorage Municipal Light and Power
- Chugach Electric Association
- Copper Valley Electric Association
- Homer Electric Association
- Ketchikan Public Utilities
- Price William Sound Science Center

Alaska Public Schools

- Mantanuska-Susitna Borough School District

Canada

Ministry of the Environment
- British Columbia

Department of the Environment
- Government of the Yukon

United States Department of Agriculture

NRCS Natural Resources Conservation Service

Issued by:

Dave White, Chief
Natural Resources Conservation Service
Washington, D.C.

Released by:

Bob Jones
State Conservationist
Natural Resources Conservation Service
Palmer, Alaska

Published by:

Rick McClure, DCO Supervisor
Dan Kenney, Hydrologic Technician
Snow, Water and Climate Staff
Natural Resources Conservation Service
Anchorage, Alaska

TABLE OF CONTENTS

GENERAL OVERVIEW

Snowpack

Winter and snow fall continued in the Western part of the state through the first half of April. As a result, the Western part of the state and Southeast continue to be well above average with greater than 130% of average snowpack conditions, as of May 1st. However, much of Alaska experienced an accelerated snowmelt the last 5 days of April. Two environmental factors caused the accelerated snow melt: one occurred in portions of South Central Alaska with the March ash fall from Redoubt volcano, the other factor was due to record breaking high temperatures occurring the last 5 days of the month and the minimum temperatures remaining above freezing through the night in many areas of the state.
The southern Kenai Peninsula received significant ash fall from Redoubt volcano in March, this accelerated melt in April with no snow at several sites. The snow courses with no snow are Demonstration Forest, Bridge Creek and Eagle Lake. The SNOTEL sites include Anchor River Divide and Port Graham where the Anchor River Divide has an average of 29 inches of snow depth with 10.9 inches of water content. This is the 1st time for the Anchor River Divide site to have no snow on May 1st and a record low, the record began in 1981.
The Seward Peninsula continued to have winter through April. The Rocky Point SNOTEL site south of White Mountain has 28 inches of snow on the ground. The Pargon Creek SNOTEL site located northeast of White Mountain in the Fish River Flats, has 18 inches of snow. The Wyoming shielded precipitation gauge at Pargon Creek has received 8.7 inches of precipitation since October 1st, 171% of average.
In the Upper Tanana Valley, the Jatamund Lake snow course, in the Tetlin National Wildlife Refuge, had 12 inches of snow with 2.5 inches of water content. The average is no snow. Chisana SNOTEL site is reporting 14 inches of snow depth with 4.7 inches of water content, 360% of average. This area has significant a snowpack, like the White River basin in the Yukon.

Precipitation

Western Alaska continued to receive significant precipitation during the month of April, a winter long trend. Bethel, Nome and Kotzebue all received well above average precipitation. This wet weather, mostly snow, extended east through a good portion of the state to the towns of McGrath and Bettles. The Arctic received significant precipitation, as shown by 1.7 inches being caught at the Red Dog Wyoming shielded precipitation gauge in April. Barrow has received 3.8 inches since October 1st, 115 % of normal. Since the storms tracked through this part of the state, the rest of the state again received below normal precipitation for April. The Kenai Peninsula continued its' winter-long trend of below normal precipitation by avoiding most major storm systems.

Temperature

With record setting high temperatures across the eastern and central part of the state the last 5 days of April, most stations reported right at average or a degree or 2 above average temperature for the month. The most significant high temperatures were 73 and 76 deg F recorded at Fairbanks the 29th and 30th of April. Big Delta had 70 and 71 deg F for the 29th and 30th and Northway recorded 66 and 68 deg F for the 29th and 30th. Whitehorse, in the Yukon Territories, recorded 66 and 68 deg F for the 29th and 30th with the high above 63 deg F for the last four days of the month.

STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

FORECAST POINT*	Percent of Ave. Flow	Period
Yukon River at Eagle	117	May-Jul
Porcupine River nr International Boundary	100	May-Jul
Yukon River near Stevens Village	114	May-Jul
Tanana River at Fairbanks	112	May-Jul
Tanana River at Nenana	106	May-Jul
Little Chena River near Fairbanks	89	May-Jul
Chena River near Two Rivers	100	May-Jul
Salcha near Salchaket	88	May-Jul
Sagvanirktok River near Pump Station 3	123	May-Jul
Kuparuk River near Deadhorse	119	May-Jul
Kuskokwim River at Crooked Creek	123	May-Jun
Gulkana River at Sourdough	104	May-Jul
Little Susitna River near Palmer	98	May-Jul
Talkeetna River near Talkeetna	97	May-Jul
Ship Creek near Anchorage	91	May-Jul
Kenai River at Cooper Landing	95	May-Jul
Gold Creek near Juneau	116	May-Jul

SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

FORECAST POINT	INDEX
Koyukuk River at Hughes	+1.3
MF Koyukuk River near Wiseman	+2.2
Slate Creek at Coldfoot	+1.8
Beaver Creek above Victoria	-1.3
Birch Creek below South Fork	-0.6
Caribou Creek at Chatanika	-0.3
Susitna River near Gold Creek	+0.8
Chulitna River near Talkeetna	-1.0
Deshka River at mouth near Willow	0.0
Montana Creek at Parks Highway	+0.2
Willow Creek near Willow	-1.3
Skwentna River at Skwentna	-0.5
Chuitna River near Tyonek	-0.8
Campbell Creek near Spenard	-2.0
Indian Creek at Indian	-2.1
Bird Creek at Bird Creek	-2.1
Glacier Creek nr Girdwood	+0.6
Six Mile Creek near Hope	-0.8
Resurrection Creek near Hope	-1.0
Grouse Ck @ Grouse Lake Outlet	-1.7
Anchor River near Anchor Point	-3.0
Deep Creek near Ninilchik	-3.0
Ninilchik River near Ninilchik	-3.0
Fritz Creek near Homer	-3.0
Skagway River at Skagway	+2.9
Municipal Watershed C nr Petersburg	+2.9

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

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

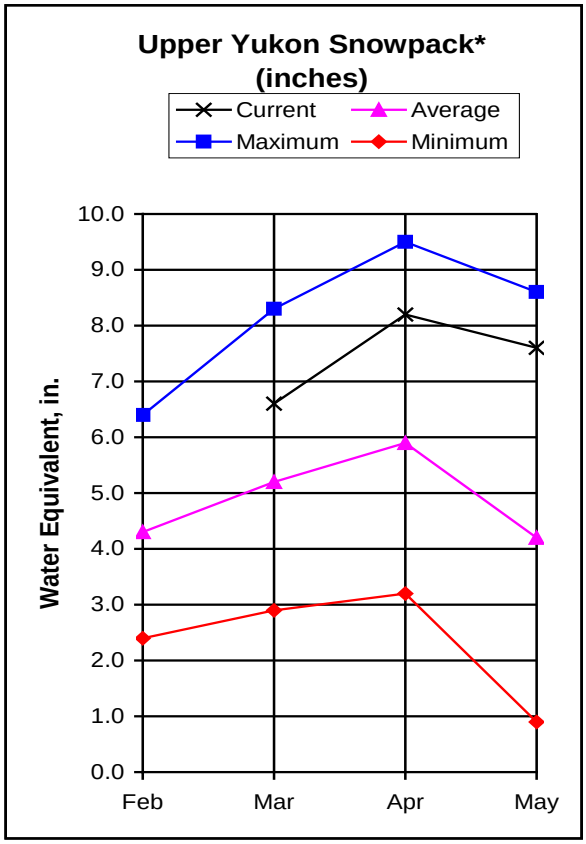
HOW FORECASTS ARE MADE

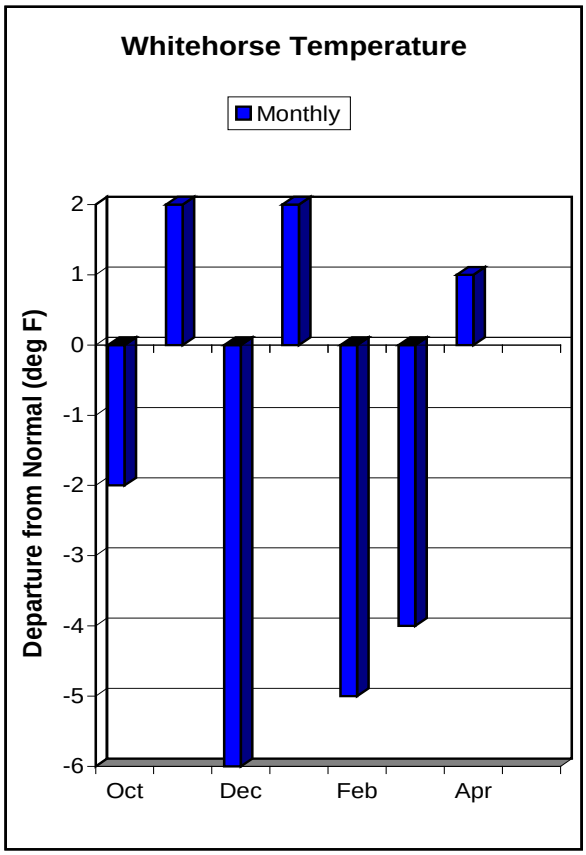
Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of the water content in the snow at selected manual snow courses and automated SNOTEL sites are used in the runoff estimates. In addition, 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: uncertain knowledge of future weather conditions, uncertainty in the forecasting procedure, and 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 flows (90% and 70% exceedance probability) and two larger flows (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 uncertainty there is in the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known. This accuracy 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, such as the 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 determine the chances of receiving more or less water for their specific streamflow need.

UPPER YUKON BASIN*





Current Basin Conditions

The Yukon Territories snowpack water content remains much above average for May 1st with seven new record high snow water contents. The snow courses are: Atlin, record began in 1964, Hoole River, record began in 1977, Jordan Lake, record began in 1987, Mount Nansen, record began 1976, Mt. Berdoe, record began 1975, Williams Creek, record began in 1995 and Chair Mountain, record began in 1988.

The area above Whitehorse/Teslin is 193% of average with Whitehorse Airport snow course water content at 430%. The White River area is 263% of average with the Beaver Creek snow course water content at 273%.

The Yukon River at Eagle volume flow forecast for the May through July time period is 38,400,000 acre-feet of water and is 117% of average.

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

Upper Yukon Basin

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Arrowhead Lake	3675	No Survey			---	---	29	7.9
Atlin	2395	4/30/09	19	8.1	7	1.7	7	2.0
Beaver Creek	2150	4/28/09	16	3.0	0	0.0	4	1.1
Burns Lake	3650	4/29/09	42	12.0	38	11.4	25	8.3
Burwash Airstrip	2660	4/28/09	5	1.2	0	0.0	1	0.2
Calumet	4300	4/28/09	39	9.5*	24	6.2	33	7.8
Casino Creek	3495	4/27/09	31	8.2	0	0.0	20	4.6
Chair Mountain	3500	4/28/09	1.9	5.3	---	---	---	---
Duke River	4300	4/28/09	22	5.8	0	0.0	15	3.1
Edwards Lake	2720	4/28/09	33	8.5	23	5.8	22	6.0
Finlayson Airstrip	3240	4/29/09	22	7.3	18	5.7	9	2.6
Fuller Lake	3695	4/28/09	34	9.8	33	9.5	28	8.1
Grizzly Creek	3200	4/30/09	28*	7.0*	0	0.0	21	5.2
Hoole River	3400	4/29/09	30	8.3	24	7.0	11	3.0
Jordan Lake	3050	4/29/09	30	7.9	22	6.1	11	2.9
King Solomon Dome	3540	4/29/09	21	6.1	21	6.4	14	3.8
Log Cabin (B.C.)	2900	4/27/09	53	20.2	41	14.8	38	14.2
MacIntosh	3805	4/27/09	24	6.2	0	0.0	8	1.9
Mayo Airport	1770	4/28/09	0	0.0	0*	0.0*	2	0.6
Meadow Creek	4050	4/27/09	52	15.2*	54	17.9	37	10.6
Midnight Dome	2805	4/29/09	24	7.2	19	5.8	19	4.7
Montana Mountain	3350	4/27/09	30	8.0	17	4.9*	16	4.2
Morley Lake	2700	4/27/09	28	8.9	19	5.2	9	2.7
Mount Nansen	3350	4/27/09	21	4.7	0	0.0	2	0.5
Mt. Berdoe	3395	4/27/09	28	6.9	15	3.5	10	2.4
Mt. McIntyre B	3600	5/05/09	21	6.6	20	5.9	19	4.8
Pelly Farm	1550	4/26/09	13	2.0	6	1.1	1	0.3
Plata Airstrip	2725	4/28/09	30	8.4	22	5.9	18	5.5
Rackla Lake	3410	4/28/09	34	8.7	24	5.4	31	8.5
Russell Lake	3480	4/28/09	42	11.5	31	8.5	25	7.4
Satasha Lake	3530	4/27/09	22	5.0	0	0.0	6	1.9
Tagish	3540	4/28/09	31	7.5	20	6.1*	15	4.2
Twin Creeks	2950	4/28/09	31	8.5	24	6.0	20	5.7
White River	2700	No Survey			---	---	---	---
Whitehorse Airport	2300	5/1/09	14	4.3	2	0.3	4	1.0
Williams Creek	3000	4/27/09	26	6.9	0	0.0	9	1.9
Withers Lake	3200	4/28/09	37	10.4	30	7.8	30	9.1

Estimate*

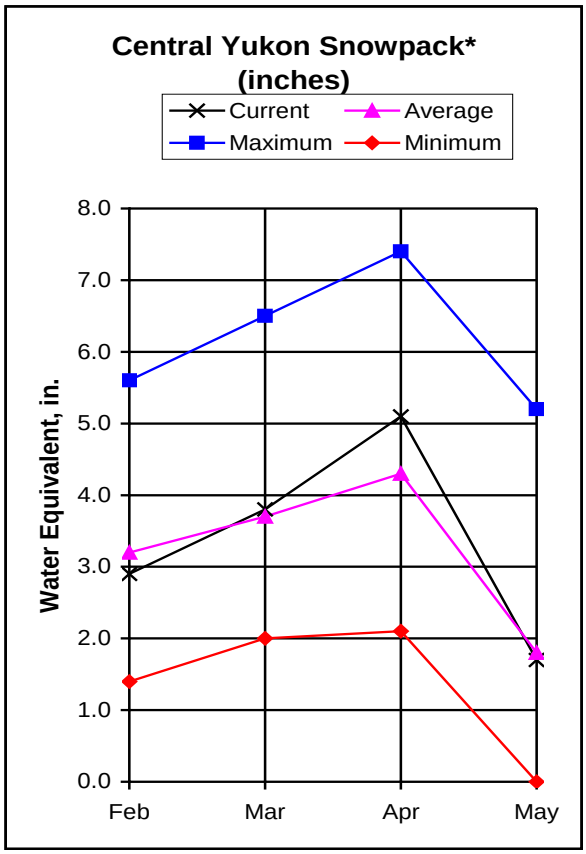
STREAMFLOW FORECASTS

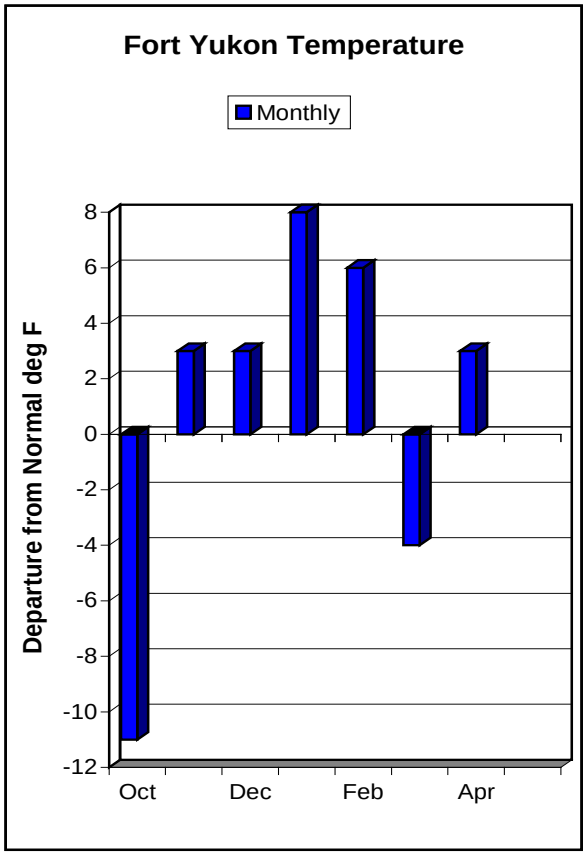
Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Yukon River At Eagle	May-Jul	32900	38,400	117	44,100	32,700

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Above Whitehorse/ Tetlin	10	149	193
Dawson	3	166	148
Stewart/ Pelly	13	131	144
White River	8	1171	261

CENTRAL YUKON BASIN*





Current Basin Conditions

The Central Yukon basin snowpack is near average with the Mission Creek site, at Eagle, having 2 inches of snow with .7 inches of water content. The Coal Creek snow course, down river from Eagle had 9 inches of snow with 1.7 inches of water content.
The Fort Yukon SNOTEL site was bare of snow at the end of the month with the last 4 inches of snow measured on the 29th of April; it was gone by midnight the 30th.
The Seven Mile snow course had 4.2 inches of water content, 136% of average the 30th of April.
The Yukon River near Stevens Village volume flow forecast for the May through July time period is 53,200,000 acre-feet of water and is 114% of average.

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

Central Yukon Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Cathedral Creek	1800	4/29/09	14	3.5	---	---	---	---
Coal Creek	1000	4/29/09	9	1.7	---	---	---	---
Copper Creek	2000	4/29/09	0	0.0	---	---	---	---
Cresent Creek	2600	4/29/09	10	2.5	---	---	---	---
Eagle Plains	2330	4/30/09	19	5.7	14	6.6	20	4.8
Eagle River	1115	4/30/09	17	4.0	0	0.0	17	4.0
Fort Yukon	430	5/01/09	0	0.0	1	0.3	---	---
Graphite Lake	600	No Survey			3	0.8	---	---
Hess Creek	1000	4/30/09	14	4.0	20	4.6	9	2.5
Lower Beaver Creek	400	3/02/09	27	4.9	---	---	---	---
Mission Creek	900	5/01/09	2	0.7	0	0.0	2	0.5
Old Crow	980	No Survey			---	---	14	3.3
Riff's Ridge	2130	4/30/09	17	5.7	17	5.2	19	4.6
Seven Mile	600	4/30/09	14	4.2	17	5.3	12	3.1
Step Mountain	2850	4/29/09	23	5.6	---	---	---	---
Thirty Mile	1350	5/01/09	23	6.7	32	8.0	26	6.7
Three Fingers	3350	4/29/09	21	5.0	---	---	---	---
Upper Nome Creek	2650	5/01/09	10	2.5*	16	4.7*	---	---
Vunzik Lake	500	No Survey			7	1.8	---	---

estimate*

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Porcupine River nr International Boundary	May-Jul	5500	5,620	100	8,210	3,850
Yukon River near Stevens Village	May-Jul	46800	53,200	114	58,700	46,100

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1st

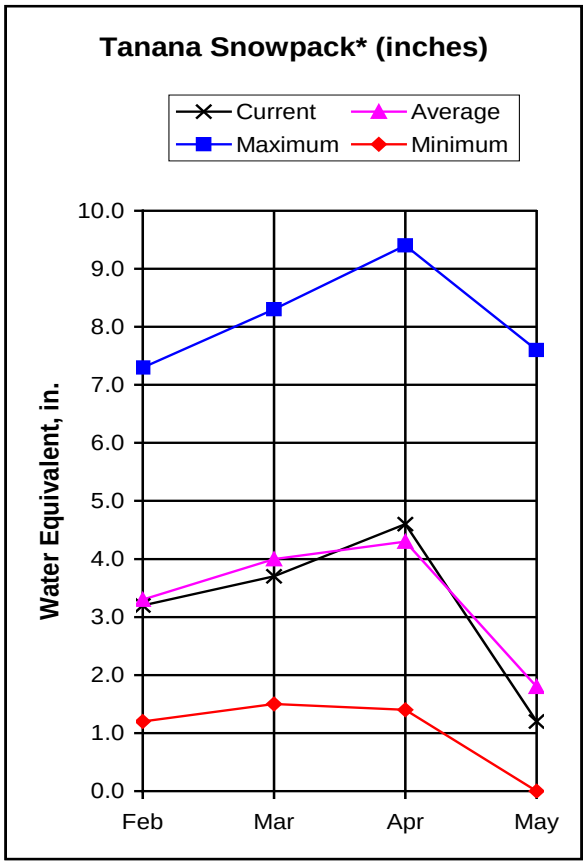
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Atigun Pass**	4800	5/01/09	9.1	7.3	9.1	100
Chandalar Shelf**	3300	5/02/09	7.4	6.7	6.0	123
Eagle Summit	3650	5/01/09	5.6	4.2	6.4	88
Fort Yukon	430	5/01/09	4.1	3.8	4.5	91
Mission Creek	900	5/01/09	5.4	3.2	5.8	93
Upper Nome Creek	2650	5/01/09	6.6	5.3	8.1	82

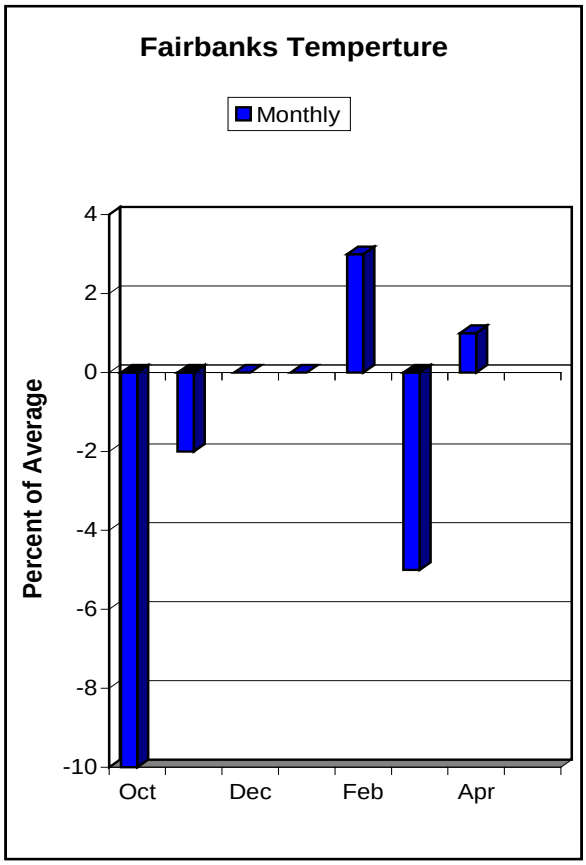
**Wyoming shielded gauge

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Forty Mile	1	---	140
Porcupine (Y.T.)	3	88	128
White Mountains	1	53	---
Yukon Flats	2	83	146

TANANA BASIN*





Current Basin Conditions

In the Upper Tanana Valley the Jatamund Lake snow course, in the Tetlin National Wildlife Refuge, had 12 inches of snow with 2.5 inches of water content. The average is no snow. Chisana SNOTEL site is reporting 14 inches of snow depth with 4.7 inches of water content, 360% of average. This area has significant a snowpack, like the White River basin in the Yukon territories.

The Tok and Granite Creek sites have no snow with the Granite Creek SNOTEL site snow disappearing the 29th of April. The Fielding Lake snow course, south of Delta Junction on the Richardson Highway, has 38 inches of snow depth with 11.0 inches of water content, 92% of average.

Northeast of Fairbanks, the six Chena basin SNOTEL sites are reporting approximately 89% of average snow water content.

Southwest of Fairbanks, the Lake Minchumina snow water content is 192% of average with 2.5 inches of water content.

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

Tanana Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Bonanza Creek	1150	5/01/09	0	0.0	---	---	11	2.8
Caribou Creek	1250	5/01/09	0	0.0	---	---	6	1.7
Caribou Snow Pillow	900	5/01/09	10	3.0	---	---	6	1.7
Chisana	3320	5/01/09	14	4.7	---	---	---	---
Cleary Summit	2230	5/01/09	20	5.0	19	4.2	22	5.9
Colorado Creek	700	5/01/09	3	1.0	---	---	9	2.3
Fairbanks FO	450	5/01/09	0	0.0	---	---	3	0.8
Faith Creek	1900	5/01/09	14	3.5	5	1.1	11	2.7
Fielding Lake	3000	4/29/09	38	11.0	15	5.0	39	12.0
Fort Greely	1500	4/29/09	0	0.0	4	1.0	3	0.9
French Creek	1800	4/30/09	18	5.2	18	4.6	14	4.1
Gerstle River	1200	4/30/09	5	1.2	0	0.0	6	1.5
Granite Creek	1240	5/01/09	0	0.0	1	0.5	3	1.8
Jatahmund Lake	2180	4/30/09	12	2.6	2	0.2*	---	---
Kantishna	1550	4/29/09	9	2.5	18	4.5*	15	3.1
Lake Minchumina	730	4/29/09	12	2.5	10	3.0*	5	1.3
Little Chena Bottom	1460	5/01/09	3	1.0	0	0.0	9	3.0
Little Chena Ridge	2000	5/01/09	2	0.8	3*	0.8	16	4.5
Mentasta Pass	2430	4/29/09	16	4.0	---	---	16	4.8
Monument Creek	1850	5/01/09	4	1.5	3	0.4	14	3.5
Mt. Ryan	2800	5/01/09	19	4.2	12*	2.9	24	6.3
Munson Ridge	3100	5/01/09	29	9.1	27*	7.2*	36	9.7
Paradise Hill	2200	4/29/09	5	1.2	2	0.2	0	0.0
Rock Creek Bottom	2250	4/30/09	0	0.0	9	2.6	8	2.2
Rock Creek Ridge	2600	4/30/09	4	1.7	13	3.1	14	4.9
Shaw Creek Flats	980	4/30/09	0	0.0	0	0.0	3	0.8
Stampede	1800	No Survey			---	---	---	---
Teuchet Creek	1640	5/01/09	8	1.5	1	0.1	8	2.1
Tok Junction	1650	4/30/09	0	0.0			3	0.9
Upper Chena	3000	5/01/09	19	5.7	8	2.4	25	7.5
Upper Chena Pillow estimate *	2850	5/01/09	22	6.8	11	3.4	22	6.9

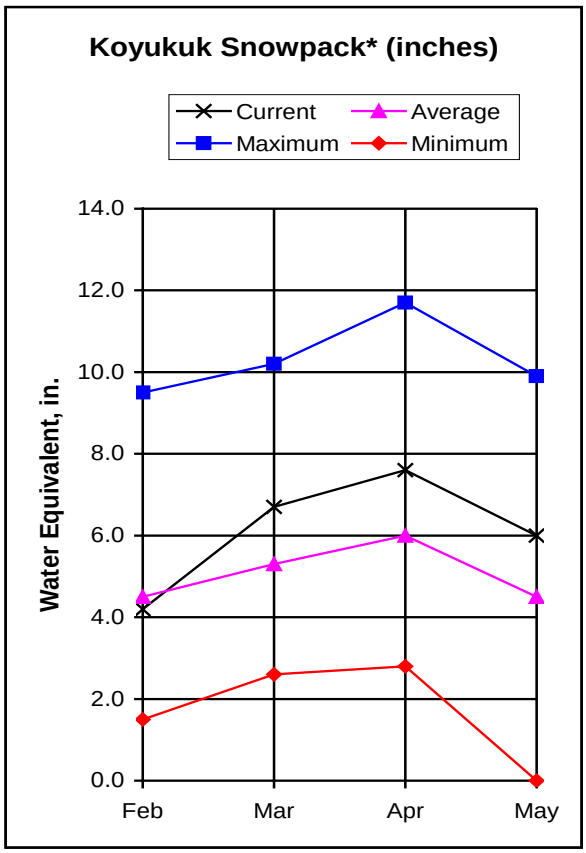
STREAMFLOW FORECASTS

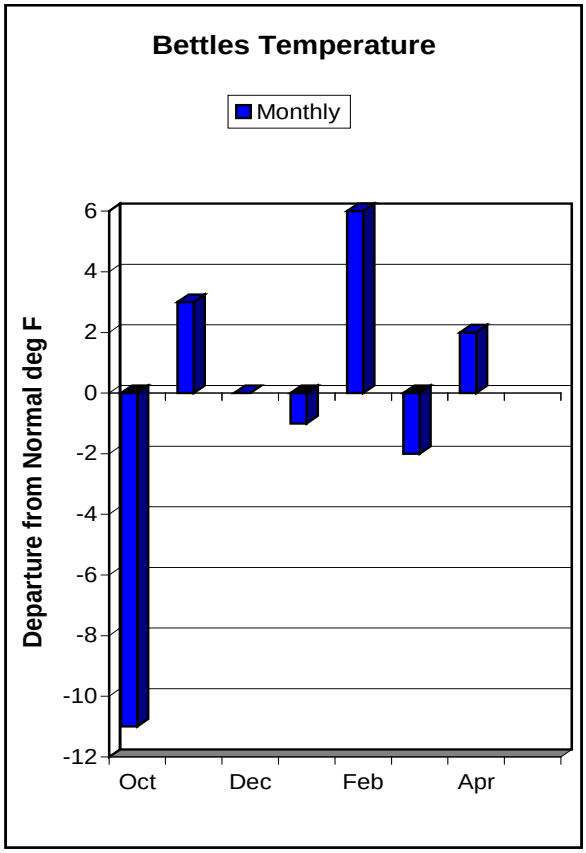
Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Tanana River at Fairbanks	May-Jul	6680	7,500	112	8,400	6,520
Little Chena R. near Fairbanks	May-Jul	72	64	89	87	41
Chena River near Two Rivers	May-Jul	255	255	100	345	167
Salcha River near Salchaket	May-Jul	595	525	88	710	370
Tanana River at Nenana	May-Jul	8470	8,940	106	10,100	7,730

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Chatanika	1	119	85
Chena Basin	10	165	89
Lower Tanana Valley	5	71	73
Mid Tanana Valley (Delta Junction)	5	203	80
Upper Tanana Valley (Tok)	5	177	171

WESTERN INTERIOR BASINS*





Current Basin Conditions

Koyukuk

The Coldfoot SNOTEL site has 24 inches of snow depth with 8.5 inches of snow water content, 109% of normal. It is down 1.8 inches from the peak of 10.3 that occurred on April 26th.
At the foot of Atigun Pass, the Table Mountain snow course has 23 inches of snow depth with 6.7 inches of snow water content, 156% of average.
In the Kanuti National Wildlife Refuge, the Minnkokut snow course continues to have the most snow measured with 32 inches of snow depth and an estimated 10.0 inches of water content, 142% of average.

Kuskokwim

The McGrath snow course is estimated to have 3.5 inches of water content, 125% of average. The Lake Minchumina snow course has 12 inches of snow depth with 2.5 inches of water content, 192% of normal.
The Kuskokwim River volume flow forecast for the May through June time period is 11,700,000 acre-feet of water and is 123% of normal.

Lower Yukon

The most snow measured in the Innoko Wildlife refuge was at the Wapoo Hills snow course with 36 inches of snow depth and an estimated 12.5 inches of water content. This is down from 57 inches and 13.5 inches last month.

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

Western Interior Basins

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Koyukuk								
Bettles Field	640	5/01/09	18	5.5*			13	3.4
Bonanza Forks	1200	4/30/09	15	4.6	14	3.7	16	4.1
Cloverleaf	170	No Report			12	3.3	---	---
Coldfoot	1040	5/01/09	24	8.5	28	7.5	21	5.3
Colville Bend	170	No Report			24	5.5	---	---
Disaster Creek	1550	5/01/09	13	3.4	16	4.4	11	2.6
Huggins Creek	290	No Report			14	3.7	---	---
JR Slough	160	No Report			12	3.1	---	---
Kaldoyeit	750	4/29/09	11	3.5	12	3.3	---	---
Kanuti-Chelatna	670	4/29/09	18	5.7	21	5.6	---	---
Kanuti-Kilolitna	550	4/29/09	6	2.0	12	3.2	---	---
Minnkokut	580	4/29/09	32	10.0	44	9.6	---	---
Nolitna	560	4/29/09	17	5.5	13	3.7	---	---
Pike Trap Lake	130	No Report			13	3.7	---	---
Table Mountain	2200	5/01/09	23	6.7	21	5.4	19	4.3
Taiholman	540	4/29/09	0	0.0	5	1.5	---	---
Treat Island	190	No Report			6	1.7	---	---
Kuskokwim								
Lake Minchumina	730	4/29/09	12	2.5	10*	3.0*	5	1.3
Lower Aniak	164	No Report			New		---	---
McGrath	340	5/01/09	11	3.5*	20	6.2*	9	2.8
Middle Kuskokwim	297	No Report			New		---	---
N. Fork Kuskokwim	512	4/27/09	27	9.2	New		---	---
Purkeypile Mine	2025	No Survey			---	---	10	2.5
Telaquana Lake	1550	No Report			---	---	---	---
Upper Twin Lakes estimate *	2000	No Report			---	---	---	---
Lower Yukon								
Deer Creek	195	No Report			14	3.7	---	---
Grouch Creek	220	4/29/09	14	5.0	21	7.0	---	---
Holikachuk	100	4/29/09	30	10.5	39	12.3	---	---
Horsefly Creek	180	4/29/09	0	0.0	9	3.0	---	---
Innoko Cabin	200	No Survey			---	---	---	---
Little Mud River	855	No Report			0	0.0	---	---
Lower Nowitna River	205	No Report			14	3.5	---	---
Menotl Creek	380	4/29/09	18	6.5	39	12.3	---	---
Middle Innoko	150	4/29/09	27	9.5	36	11.5	---	---
Nine Mile Island	140	No Report			28	6.5	---	---
Pike Trap Lake	130	No Report			0	0.0	---	---
Squirrel Creek	150	No Report			27	6.0	---	---
Upper Innoko	180	4/29/09	26	9.5	21	7.0	---	---
Wapoo Hills	220	4/29/09	36	12.5	41	12.9	---	---
Yankee Slough	100	4/29/09	21	7.5	33	10.5	---	---
Yetna River estimate*	120	5/01/09	23*	8.0*	30*	10.0*	---	---

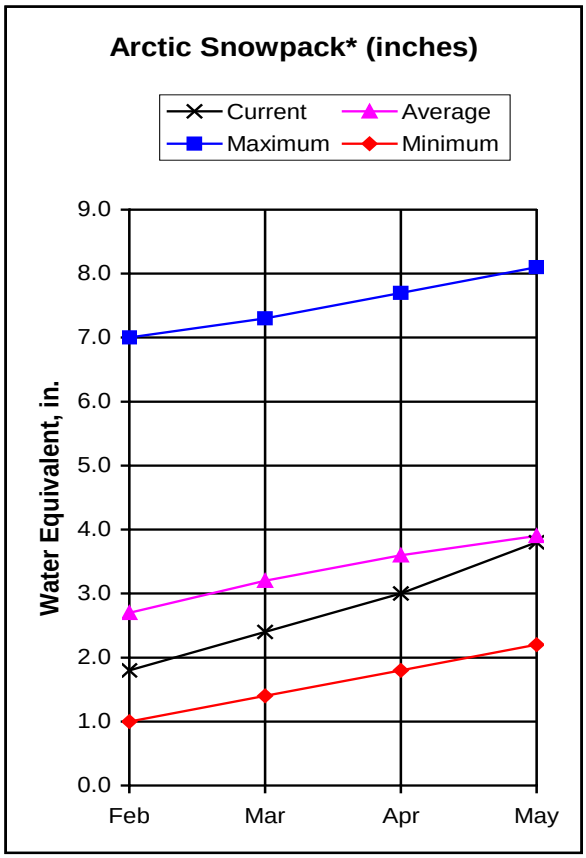
STREAMFLOW FORECASTS

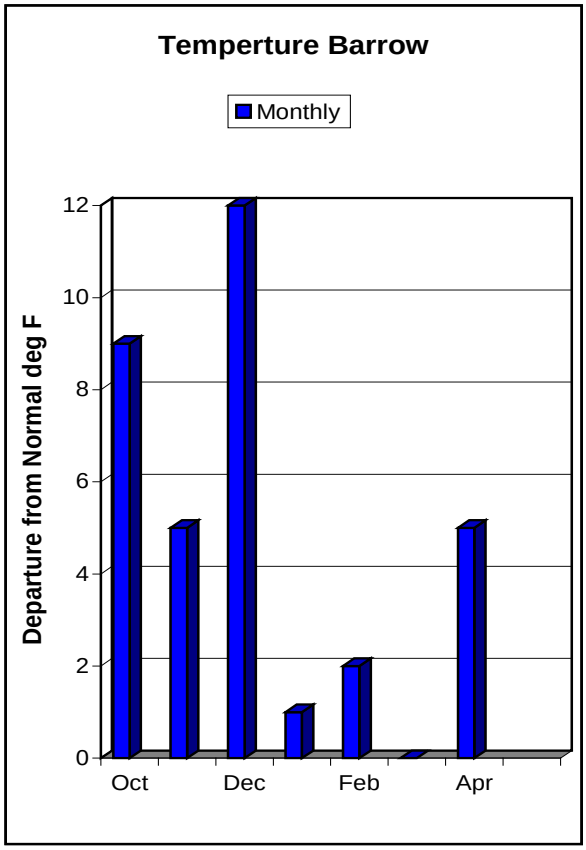
Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Kuskokwim River at Crooked Creek	May-Jul	9550	11,700	123	16,500	6,870

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Koyukuk	10	107	128
Upper Kuskokwim	2	65	146
Lower Yukon	8	80	292

ARCTIC AND KOTZEBUE SOUND*





Current Basin Conditions

Arctic

The Atigun Pass SNOTEL site on the Dalton Highway in the Brooks Range has caught 9.1 inches of precipitation since October 1st, which is average. North on the Dalton Highway, Imnaviat Creek SNOTEL site has received 5.2 inches since October 1st, which is 121% of normal.
The Barrow Nipher shielded precipitation gauge has caught 3.8 inches of precipitation since October 1st, 115% of average.
The Umiat airport snow course had 21 inches of snow depth with 4.0 inches of snow water content the 13th of April.

Kotzebue

As of May 1st, Red Dog Mine has received 5.8 inches of precipitation for the water year, this is 83% of average.
The snow course near the Red Dog Mine had a snow depth of 27 inches and 7.1 inches of water content, 113% of last year.

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

Arctic and Kotzebue Sound

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
Arctic	(feet)		(inches)					
Umiat Airport	265	4/13/2009	21	4.0	---	---	---	---
Umiat Met Station	645	No Report			---	---	---	---
Kotzebue Sound								
Red Dog	950	4/17/09	27	7.0	33	6.2	29	7.6

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Arctic						
Atigun Camp	3400	5/01/09	3.6	2.8	5.5	66
Atigun Pass	4800	5/01/09	9.1	7.6	9.1	100
Barrow	25	5/04/09	3.8	2.3	3.4	112
Imnaviat Creek	3050	5/01/09	5.2	2.2	4.3	121
Prudhoe Bay	30	4/27/09	3.4	3.3	4.1	83
Sagwon	1000	No Report		3.0	4.1	---
Kotzebue Sound						
Kivalina	50	4/30/09	5.5	3.3	---	---
Red Dog**	950	4/30/09	5.8	7.8	7.0	83

** Wyoming Shielded Gauge

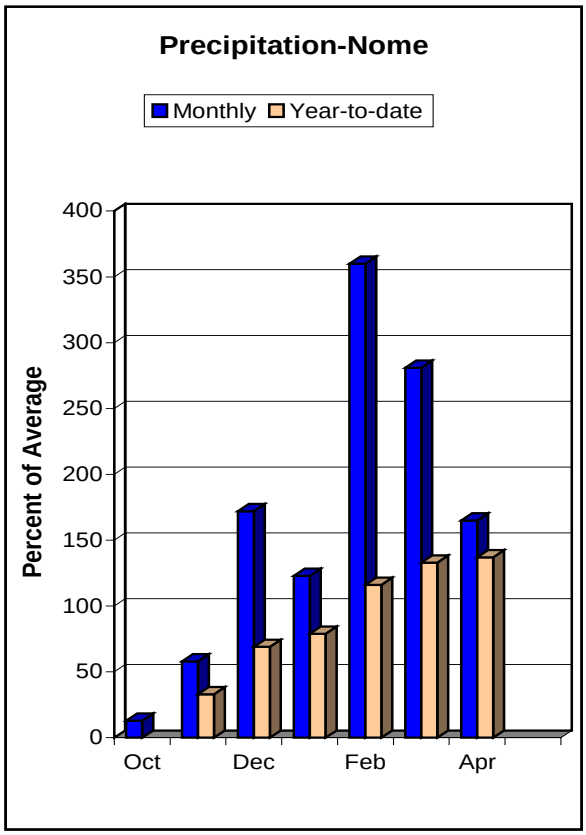
STREAMFLOW FORECASTS

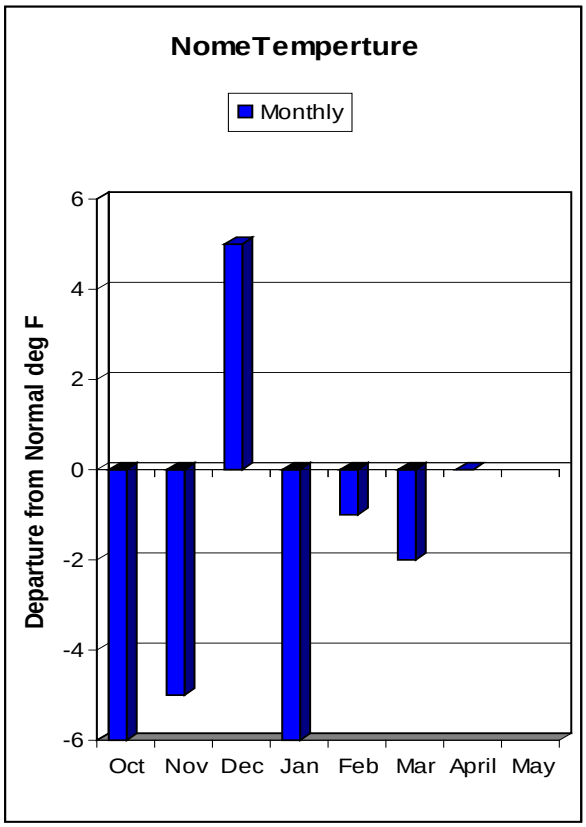
Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Sagvanirktok River near Pump Station 3	May- Jul	685	840	123	1,240	570
Kuparuk River near Deadhorse	May- Jul	795	945	119	1,350	665

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Arctic Coast	2	129	96
Dalton Highway	3	142	95

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*





Nome April departure from normal is 0º F.

Current Basin Conditions

Norton Sound

The Seward Peninsula continued to have winter through April. The Rocky Point SNOTEL site south of White Mountain has 28 inches of snow on the ground. The Pargon Creek SNOTEL site located northeast of White Mountain in the Fish River Flats, has 18 inches of snow. The Wyoming shielded precipitation gauge at Pargon Creek has received 8.7 inches of precipitation since October 1st, 171% of average.

Southwest Delta

The Bethel area continued its winter long trend receiving well above average precipitation in April, it is 196% of average since October 1st. No snow at Bethel at the end of the month with significant melt the last 5 days.

Bristol Bay

No report from the Port Alsworth area snow courses.

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

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*

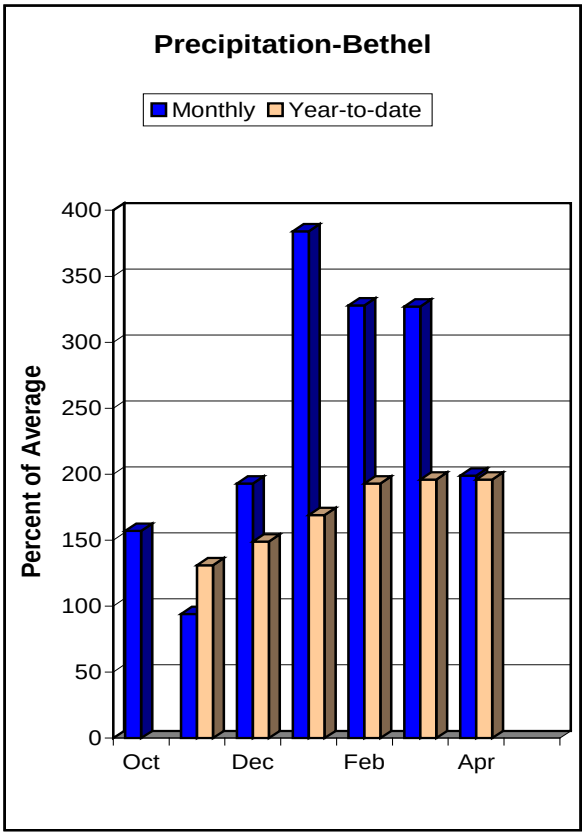
SNOWPACK DATA

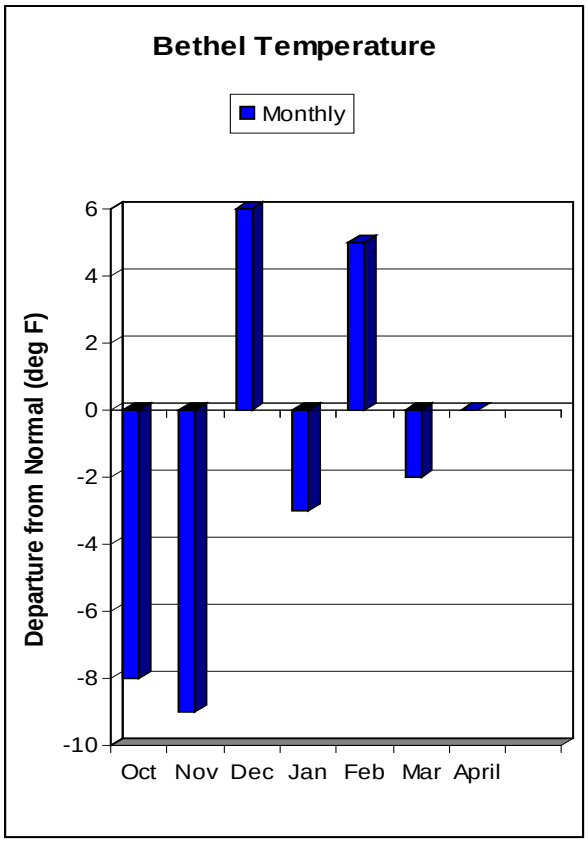
Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Bristol Bay								
Port Alsworth	270	No Survey			---	---	0	0.0
Upper Twin Lakes	2000	No Survey			---	---	---	---
Norton Sound								
Johnson's Camp	25	5/01/09	4	1.2*	26	6.5	---	---
Pargon Creek	100	5/01/09	18	6.0	19	5.7	---	---
Rocky Point	500	5/01/09	28	7.5	33	8.5	---	---

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

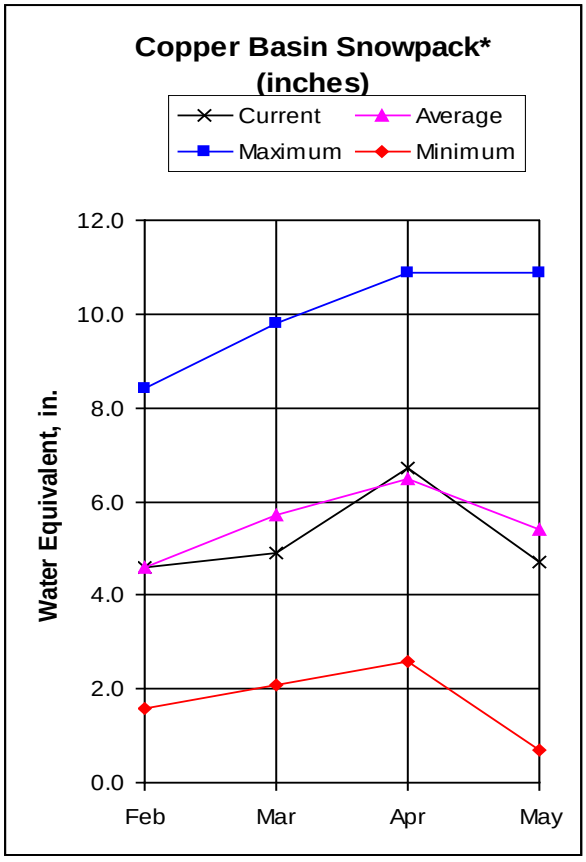
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Pargon Creek	100	5/01/09	8.7	8.3	5.1	171
Rocky Point	500	5/01/09	8.8	7.3	5.9	149

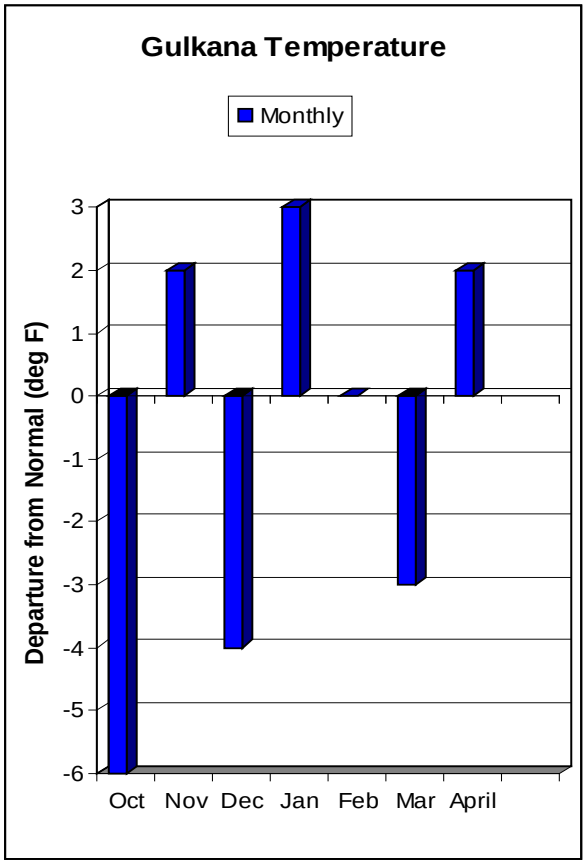




* For further information contact the Natural Resources Conservation Service in Anchorage.

COPPER BASIN*





Current Basin Conditions

The sites in the Copper vary considerably across the basin from below to above normal conditions: the Basin Floor snow courses north of the Glenn Highway have considerable snow for May 1st, 148% of average. This trend continues north to the Paxson snow course. The May Creek SNOTEL site southeast of McCarthy has 12 inches of snow with 3.2 inches of water content, average is no snow.

South from Glennallen, many snow courses had no snow or dwindling snow, Tsaina River has 12 inches of snow depth and 4.0 inches of water content, 27% of normal. This area south and west to Valdez was affected by the ash from Redoubt volcano accelerating the melt.

The Gulkana River is forecast to flow 465,000 acre-ft for the May through July time period, 104% of normal.

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

Copper Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Chistochina	1950	4/29/09	9	2.8	---	---	4	1.2
Haggard Creek	2540	4/29/09	22	6.6	---	---	18	5.2
Kenny Lake School	1300	5/01/09	0	0.0	0	0.0	3	0.9
Lake Louise	2400	4/29/09	17	5.0	---	---	12	2.9
Little Nelchina	2650	4/29/09	15	4.7	---	---	13	3.6
May Creek	1610	5/01/09	12	3.2	6	1.1	0	0.0
Mentasta Pass	2430	4/29/09	16	4.0	---	---	16	4.8
Mt.Eyak	1405	5/01/09	56	21.8	95	40.0	58	23.1
Paxson	2650	4/29/09	30	7.9	---	---	22	6.9
Tazlina	1225	5/01/09	0	0.0	0	0.0	---	---
Tolsona Creek	2000	No Survey			---	---	5	2.1
Tsaina River	1650	5/01/09	12	4.0	40	13.9	41	14.6
Upper Tsaina	1750	5/01/09	28	10.6	52	19.4	53	21.2
Worthington Glacier	2100	5/01/09	51	18.3	69	26.5	61	24.6

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Gulkana River at Sourdough	May-Jul	445 465		104	580	350

PRECIPITATION DATA

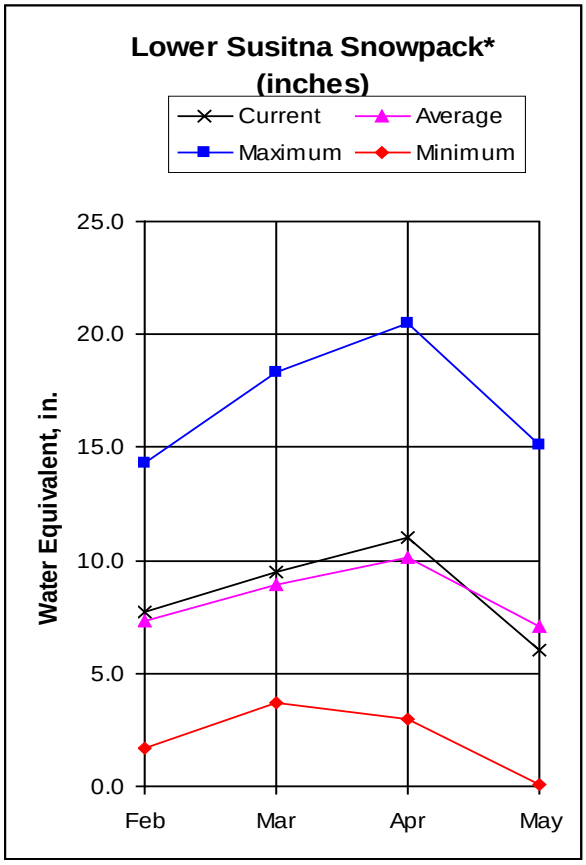
INCHES ACCUMULATED SINCE OCTOBER 1ST

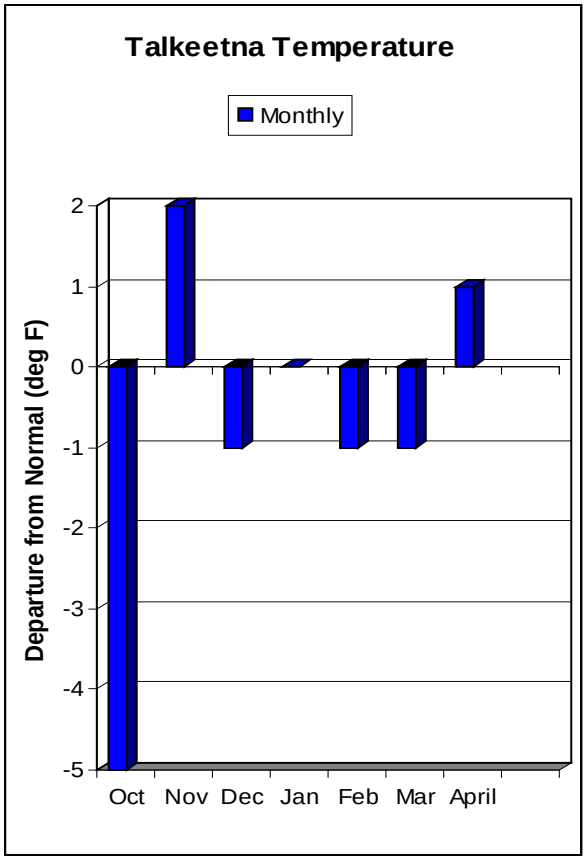
Precipitation Gauge	Elevation (ft.)	Date	This Year	Last Year	1971-2000 Ave	% of Average
May Creek	1610	5/01/09	60.2	6.0	---	
Strawberry Reef	50	5/01/09	40.1	52.5	51.2	78
Upper Tsaina	1750	5/01/09	22.4	22.6	29.3	76

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Alaska Range	3	200	97
Basin Floor	5	125	148
Chugach Range	4	55	54
Talkeetna Mountains	1	83	13
Wrangle Mountains	1	168	500

MATANUSKA – SUSITNA BASINS*





Current Basin Conditions

No snow was measured at Willow, an accelerated melt due to the March ash fall from Redoubt volcano. This trend continued north along the Parks Highway and to the west side of the Susitna Valley/Skwentna where all snow courses measured were below average.
Two snow courses at elevation in the Peters Hills, Ramsdyke Creek and Dutch Hills are above average snow water content being 105% and 106% respectively.
The Tokositna Valley SNOTEL site is 80% of normal water content.
The lower elevation snow courses on the Hatcher Pass road are much below average. Near Hatcher Pass, the Fishhook Basin snow course water content at 3300' elevation is105% of average.
The Snowmelt Runoff Index for Sustitna River near Gold Creek is average at +0.8.
The Little Susitna River volume flow forecast for the May through July time period is 82,000 acre-feet of water, 98% of average.

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

Matanuska – Susitna Basins

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Archangel Road	2200	4/29/09	24	8.8	37	12.1	37	14.9
Bentalit Lodge	150	5/01/09	0	0.0	18	6.5	---	---
Blueberry Hill	1200	4/30/09	40	15.8	49	17.0	43	17.4
Chelatna Lake	1450	4/29/09	34	11.5	47	16.2	33	10.9
Denali View	700	4/30/09	22	7.3	38	12.8	30	12.3
Dunkle Hills	2700	4/29/09	31	10.5	---	---	---	---
Dutch Hills	3100	4/29/09	83	30.5	80	29.0	74	28.7
E. Fork Chulitna	1800	4/30/09	39	12.0	47	14.2	44	15.7
Eldridge Glacier	3400	No Survey			---	---	---	---
Fishhook Basin	3300	4/29/09	63	23.1	54	18.3	61	22.1
Fog Lakes	2120	5/01/09	15*	4.6*	16	4.0	22	5.7
Halfway Slough	350	4/30/09	17	5.9	---	---	---	---
Independence Mine	3550	4/29/09	70	24.4	61	21.5	65	27.1
Independence Mine	3550	5/01/09	55	18.7	41	13.3	50	21.1
Lake Louise	2400	4/29/09	17	5.0	---	---	12	2.9
Little Susitna	1700	4/29/09	10	3.6	27	8.6	22	9.2
Monahan Flat	2710	5/01/09	32	7.6*	28	6.7	34	8.7
Moose Creek Ranch	450	4/29/09	0	0.0	---	---	---	---
Nugget Bench	2010	4/29/09	44	14.5	53	18.0	46	15.3
Point Mackenzie	250	5/01/09	0	0.0	7	3.0	3	0.8
Ramsdyke Creek	2220	4/29/09	63	23.0	69	24.0	57	21.9
Sheep Mountain	2900	4/29/09	2	0.5	---	---	14	3.9
Susitna Valley High	375	5/01/09	13	3.7	22	7.8	14	5.7
Talkeetna Airport	350	4/30/09	20	6.2	---	---	16	5.4
Tokositna Valley	850	4/29/09	44	14.0	58	20.0	43	17.0
Tokositna Valley	850	5/01/09	41	13.6	55	19.7	---	---
Willow Airstrip	200	4/30/09	0	0.0	---	---	13	4.1

Estimate*

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Little Susitna River near Palmer	May-Jul	84	82	98	101	63
Talkeetna River near Talkeetna	May-Jul	1590	1,550	97	1,800	1,300

PRECIPITATION DATA

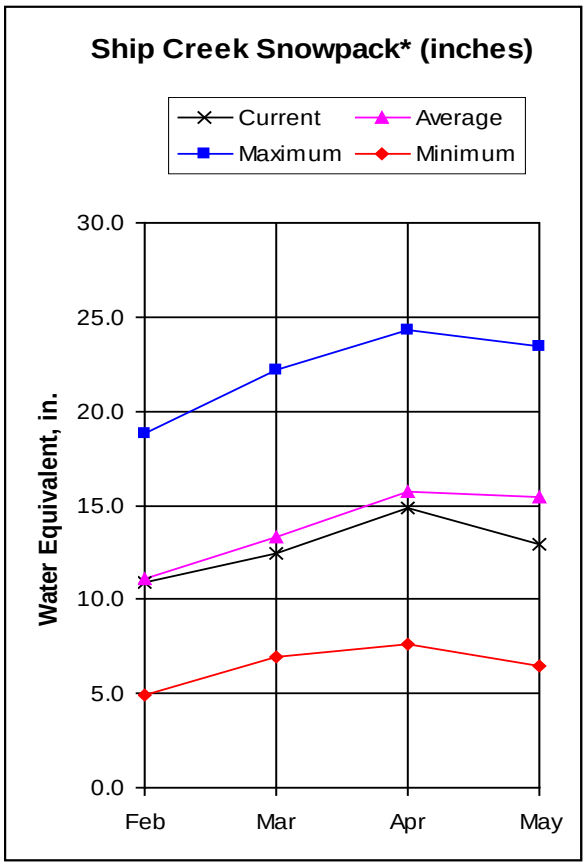
INCHES ACCUMULATED SINCE OCTOBER 1ST

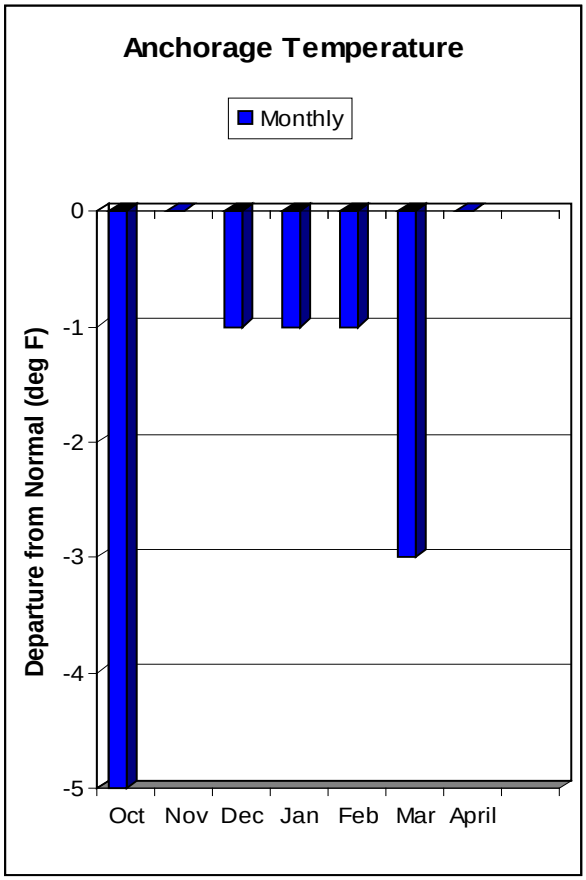
Precipitation Gauge	Elevation (ft.)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Independence Mine	3550	5/01/09	21.0	15.2	29.1	72
Monahan Flat	2710	5/01/09	7.6	6.0	9.3	82
Susitna Valley High	375	5/01/09	12.9	12.2	13.3	97
Tokositna Valley	850	5/01/09	22.7	22.2	22.1	103

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lower Susitna	4	49	82
Matanuska/Little Susitna	6	95	77
Peters Hills	6	83	92
Upper Susitna	4	96	90

NORTHERN COOK INLET*





Current Basin Conditions

The Anchorage Hillside SNOTEL site is 61% of average, and the Moraine SNOTEL site located above Eklutna Lake is 67% of average snow water content.
The Portage Valley snow course water content continues it's above average condition with 17.1 inches of snow water content, 186%.
The snow left the Point MacKenzie SNOTEL site the 28th of April.
The Campbell Creek near Spenard Snowmelt Runoff Index is -2.0, much below average.
Indian Creek and Bird Creek also reflect this much below average index at -2.1.
The Ship Creek near Anchorage volume flow forecast for the May through July time period is 52,000 acre-feet of water, 91% of normal.

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

Northern Cook Inlet

SNOW PACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Anchorage Hillside	2080	5/01/09	20	5.9	39	13.2	29	9.6
Indian Pass	2350	5/01/09	59	21.8	69	28.8	72	26.8
Kincaid Park	250	4/29/09	0	0.0	7	2.4	0	0.0
Moraine	2100	5/01/09	9	3.5	30	10.2	23	7.0
Mt. Alyeska	1540	5/01/09	80	32.3	111	42.5	104	41.3
Point Mackenzie	200	5/01/09	0	0.0	7	2.7	3	0.8
Portage Valley	50	4/30/09	42	17.1	38	16.7	19	9.2
South Campbell Creek estimate*	1200	4/30/09	0	0.0	26	8.6	13	4.3

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Ship Creek near Anchorage	May-Jul	57	82	91	65	39

PRECIPITATION DATA

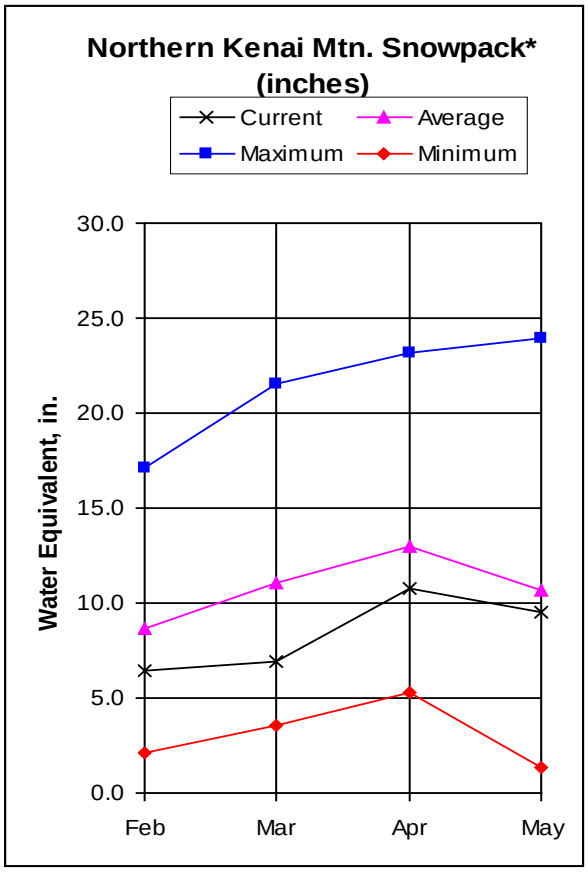
INCHES ACCUMULATED SINCE OCTOBER 1ST

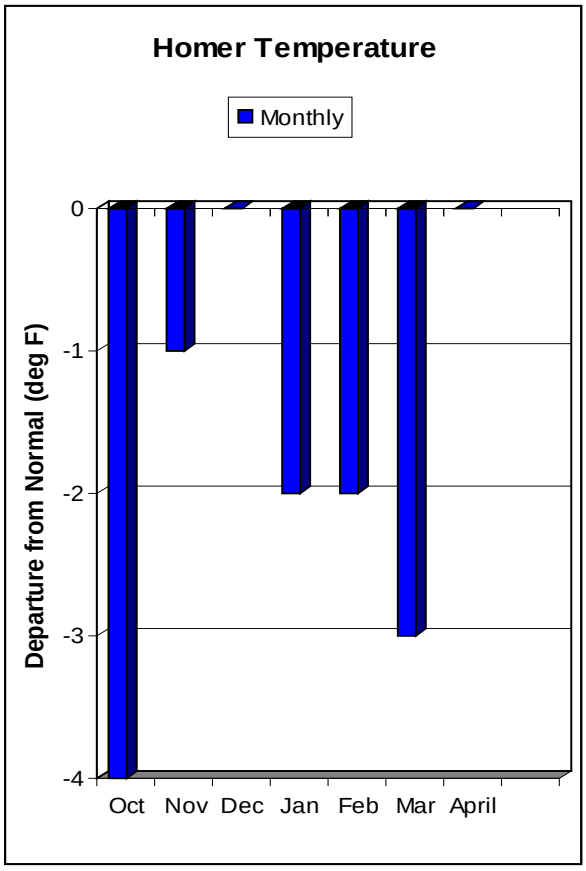
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Anchorage Hillside	2080	5/01/09	16.6	16.4	14.4	104
Indian Pass	2350	5/01/09	27.4	29.2	27.8	99
Moraine	2100	5/01/09	10.7	13.7	10.7	100
Mt. Alyeska	1540	5/01/09	37.1	57.5	45.3	82
Point Mackenzie	200	5/01/09	10.3	8.5	8.6	120

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Campbell Creek	3	24	42
Ship Creek	3	60	75
Turnagain Arm	3	67	85

KENAI PENINSULA*





Current Basin Conditions

The southern Kenai Peninsula received significant ash fall from Redoubt volcano in March, this accelerated the snowmelt in April with no snow at several sites. The snow courses with no snow are Demonstration Forest, Bridge Creek and Eagle Lake. The SNOTEL sites include Anchor River Divide and Port Graham where the Anchor River Divide has an average of 29 inches of snow depth with 10.9 inches of water content. This is the 1st time for the Anchor River Divide site to have no snow on May 1st and a record low, the record began in 1981.

The Snowmelt Runoff Indexes for four sites on the southern Kenai are much below average at -3.0. Theses sites are Anchor River near Anchor Point, Deep Creek near Ninilchik, Ninilchik River near Ninilchik and Fritz Creek near Homer.

In the Northern Kenai Mountains, Snowmelt Runoff Index for Six Mile Creek near Hope is below average at -0.8.

The Kenai River at Cooper Landing volume flow forecast for the May through July time period is 845,000 acre-feet of water, 95% of normal.

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

Kenai Peninsula

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Anchor River Divide	1650	4/30/09	0	0.0	36	16.2*	29	10.9
Bertha Creek	950	4/24/09	50	16.8	62	22.5	49	18.2
Bridge Creek	1300	4/29/09	0	0.0			37	12.3
Cooper Lake	1200	5/01/09	11	4.9	43	16.0	34	12.3
Demonstration Forest	780	4/29/09	0	0.0			21	7.4
Eagle Lake	1400	4/29/09	0	0.0	---	---	31	11.3
Grandview	1100	5/01/09	77	34.4	104	43.0*	77	26.3
Grouse Creek Divide	700	5/01/09	22	8.4	56	21.5	44	16.6
Jean Lake	620	4/30/09	0	0.0	0	0.0	2	0.5
Kachemak Creek	1660	5/01/09	10	4.0*	---	---	---	---
Kenai Moose Pens	300	5/01/09	0	0.0	6	2.6	1	0.3
Kenai Summit	1390	4/24/09	31	9.3	42	15.5	30	11.4
McNeil Canyon	1320	5/01/09	2	0.4	31	12.9	21	8.2
Moose Pass	700	4/24/09	7	2.5	11	4.1	7	2.5
Nuka Glacier	1250	5/01/09	51	20.0*	145	58.5*	93	42.4
Port Graham	300	5/01/09	0	0.0	28	5.9	10	4.0
Snug Harbor Road	500	4/30/09	0	0.0	3	1.0	12	2.5
Summit Creek	1400	5/01/09	18	6.0	34	12.2	18	7.3
Turnagain Pass	1880	5/01/09	78	29.2	130	58.4	95	40.1

estimate *

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Kenai River at Cooper Landing	May-Jul	890	845	95	965	725

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

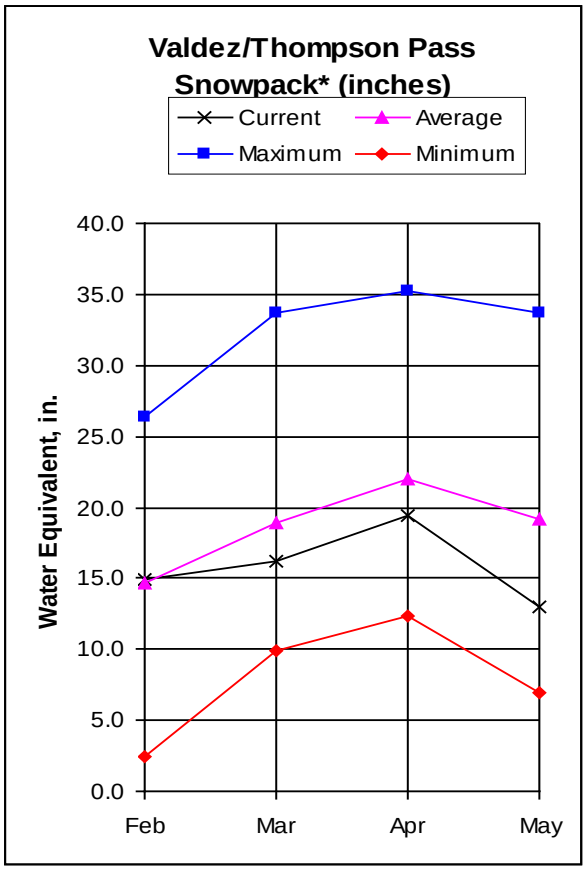
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Anchor River Divide	1650	5/01/09	14.8	25.4	20.4	72
Cooper Lake	1200	5/01/09	21.4	30.4	25.1	85
Grandview	1100	5/01/09	47.0	57.4	43.1	109
Grouse Creek Divide	700	5/01/09	30.1	54.9	39.8	76
Kachemak Creek	1660	5/01/09	30.1	45.0	43.8	69
Kenai Moose Pens	300	5/01/09	10.7	8.0	9.2	116
McNeil Canyon	1320	5/01/09	12.7	20.4	17.2	74
Middle Fork Bradley**	2300	5/01/09	27.1	39.3	37.3	73
Nuka Glacier**	1250	5/01/09	28.3	61.4	61.1	46
Port Graham	300	5/01/09	33.0	61.3	44.6	74
Summit Creek	1400	5/01/09	15.7	19.5	17.7	89
Turnagain Pass	1880	5/01/09	32.8	56.9	45.8	72

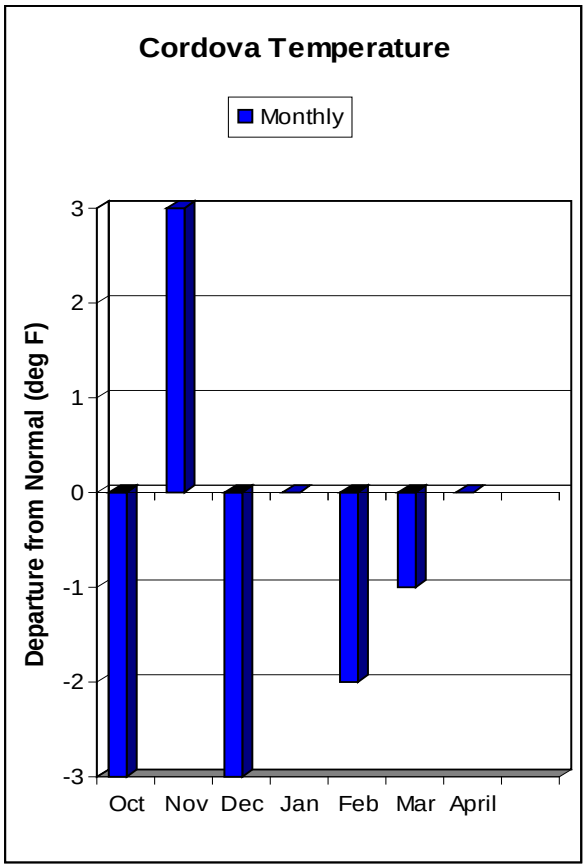
**Wyoming shielded gauge

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Bradley Lake/Southern Kenai Peninsula	2	0	43
Ninilchik Dome	5	6	3
Northern Kenai Mountains	11	55	73
Northern Kenai Flats	1	0	0

WESTERN GULF*





Current Basin Conditions

The Western Gulf snow course measurements are below average.
Near Valdez, the Sugarloaf Mountain SNOTEL site has 78 inches of snow depth with 20.8 inches of snow water content, 75% of average snow water content.
Mt. Eyak SNOTEL site, above Cordova, has 58 inches of snow depth with 22.8 inches of water content, and is 99% of average snow water content.

* 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
	(feet)		(inches)					
Exit Glacier	400	4/29/09	24	8.8	62	24.7	32	13.3
Grouse Creek Divide	700	5/01/09	22	8.4	56	21.5	44	16.6
Lowe River	425	5/01/09	11	4.8	23	8.6	30	12.0
Mt.Eyak	1405	5/01/09	58	22.8	95	40.0	58	23.1
Nuka Glacier	1250	5/01/09	51	20.0*	145	58.5*	93	42.4
Sugarloaf Mountain	550	4/30/09	59	20.8	62	25.5*	67	27.6
Tsaina River	1650	5/01/09	12	4.0	40	13.9	41	14.6
Upper Tsaina River	1750	5/01/09	28	10.6	52	19.4	53	21.2
Valdez	50	5/01/09	24	8.0	36	12.9	33	12.6
Worthington Glacier estimate *	2100	5/01/09	51	18.3	69	26.5	61	24.6

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

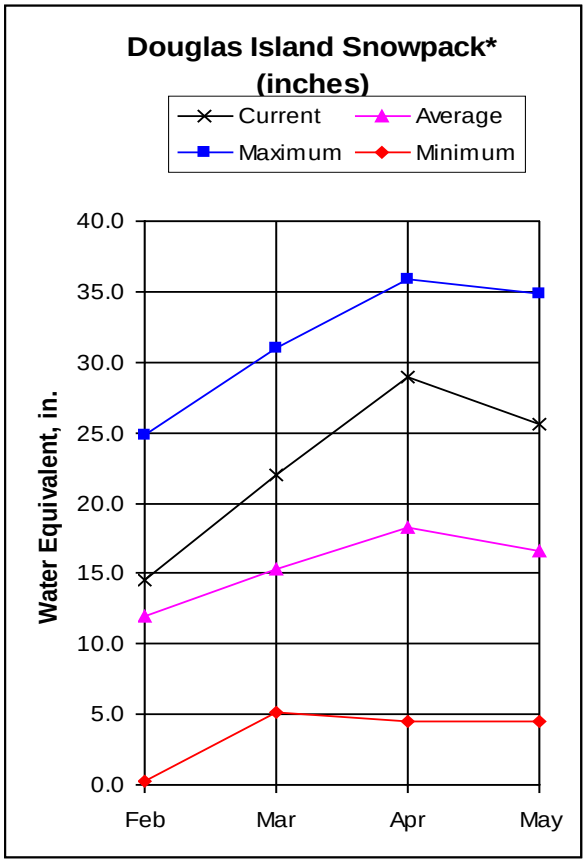
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Esther Island	50	5/01/09	83.2	111.3	91.1	91
Grouse Creek Divide	700	5/01/09	30.1	54.9	39.8	76
Mt. Eyak	1405	5/01/09	60.2	73.8	74.0	81
Nuka Glacier**	1250	5/01/09	28.3	61.4	61.1	46
Port San Juan	50	5/01/09	64.1	95.9	84.3	76
Seal Island	30	5/01/09	38.7	48.7	44.4	87
Strawberry Reef	50	5/01/09	40.1	52.5	51.2	78
Sugarloaf Mountain	550	5/01/09	37.8	46.4	44.4	85
Tatitllek	50	5/01/09	41.8	47.3	42.2	99
Upper Tsaina River	1750	5/01/09	24.1	22.6	29.3	82

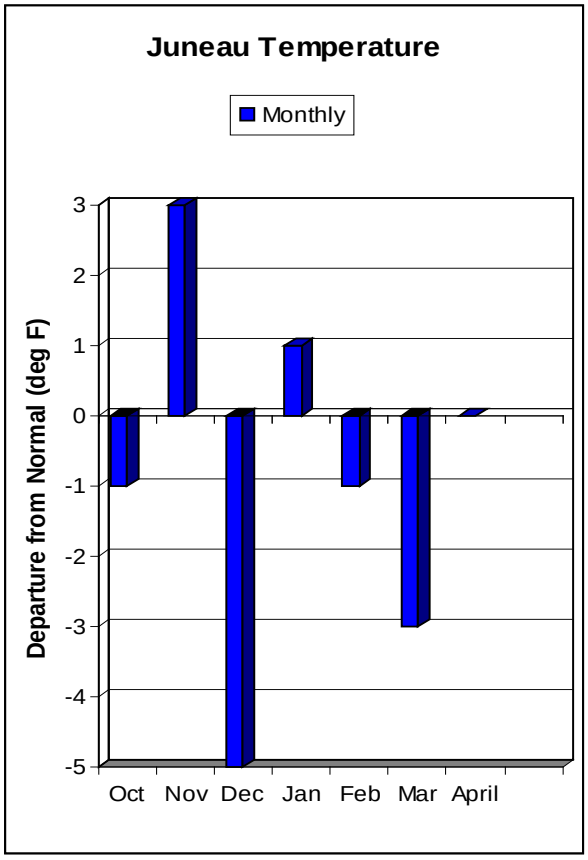
**Wyoming shielded gauge
*Copper Valley Electric Association

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lowe River (Valdez)	3	61	75
Eyak Lake	1	57	99

SOUTHEAST*





Snowcover:

The three Douglas Island snow courses, across from Juneau, are a combined 154% of average and 89% of last year.
The Speel River snow course near the Snettisham Hydro-electric power facility has 95 inches of snow depth with 42.2 inches of water content, 162% of average.
The Petersburg Reservoir snow course has 41 inches of snow depth with 15.8 inches of snow water content, average is 2.1 inches. The Petersburg Ridge snow course water content is 196% of average with 43.4 inches of measured water content.
The Snowmelt Runoff Index for the Municipal Watershed Creek near Petersburg is much above average at +2.9.

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

Southeast

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1971-2000 AVERAGE Snow Depth	1971-2000 AVERAGE Water Content
			(inches)					
Cropley Lake	1650	4/29/09	114	39.8	117	49.1	73	32.8
Eagle Crest	1200	4/29/09	78	30.8	83	36.9	37	15.7
Fish Creek	500	4/29/09	15	6.1	0	0.0	3	1.3
Long Lake	850	4/29/09	111	51.8*	129	60.5	100	47.9
Moore Creek Bridge	2250	5/01/09	62	25.2	62	24.2	46	18.9
Petersburg Reservoir	550	5/01/09	41	15.8	40	15.6	6	2.3
Petersburg Ridge	1650	4/29/09	101	43.4	114	51.5	51	22.1
Speel River	280	5/01/09	95	42.2	89	38.4	59	26.1

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Gold Creek near Juneau	May-Jul	31	36	116	43	29

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Long Lake	850	5/01/09	101.7	106.7	104.6	97
Moore Creek Bridge	2250	5/01/09	24.9	25.7*	26.6	96
Snettisham	25	5/01/09	134.9	121.8	112.5	120
Swan Lake	50	No Report		123.6	98.8	---

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Douglas Island	3	89	154
Petersburg	2	88	245
Snettisham	2	95	127

For further information contact:

NRCS Alaska web site: ***www.ak.nrcs.usda.gov/snow/***
Alaska Meteor Burst Communication System (AMBCS) web site: ***www.ambcs.org***

NRCS Anchorage Support Staff
510 L Street, Suite 270
Anchorage, Alaska 99501-1949
Telephone (907) 271-2424, Extension 113;
Facsimile (907) 271-3951; or e-mail: *Richard.McClure@ak.usda.gov*

Copper Center Field Office
Catherine Hadley, Acting District Conservationist
Telephone: (907) 822-4484
Facsimile: (907) 822-4489
e-mail: Catherine.Hadley@ak.usda.gov

Delta Junction Field Office
Catherine Hadley, District Conservationist
Telephone (907) 895-4241 x 103
Facsimile: (907) 895-5003
e-mail: Catherine.Hadley@ak.usda.gov

Fairbanks Field Office
Joanne Kuykendall, District Conservationist
Telephone (907) 479-3159 x 110
Facsimile: (907) 479-6998
e-mail: Joanne.Kuykendall@ak.usda.gov

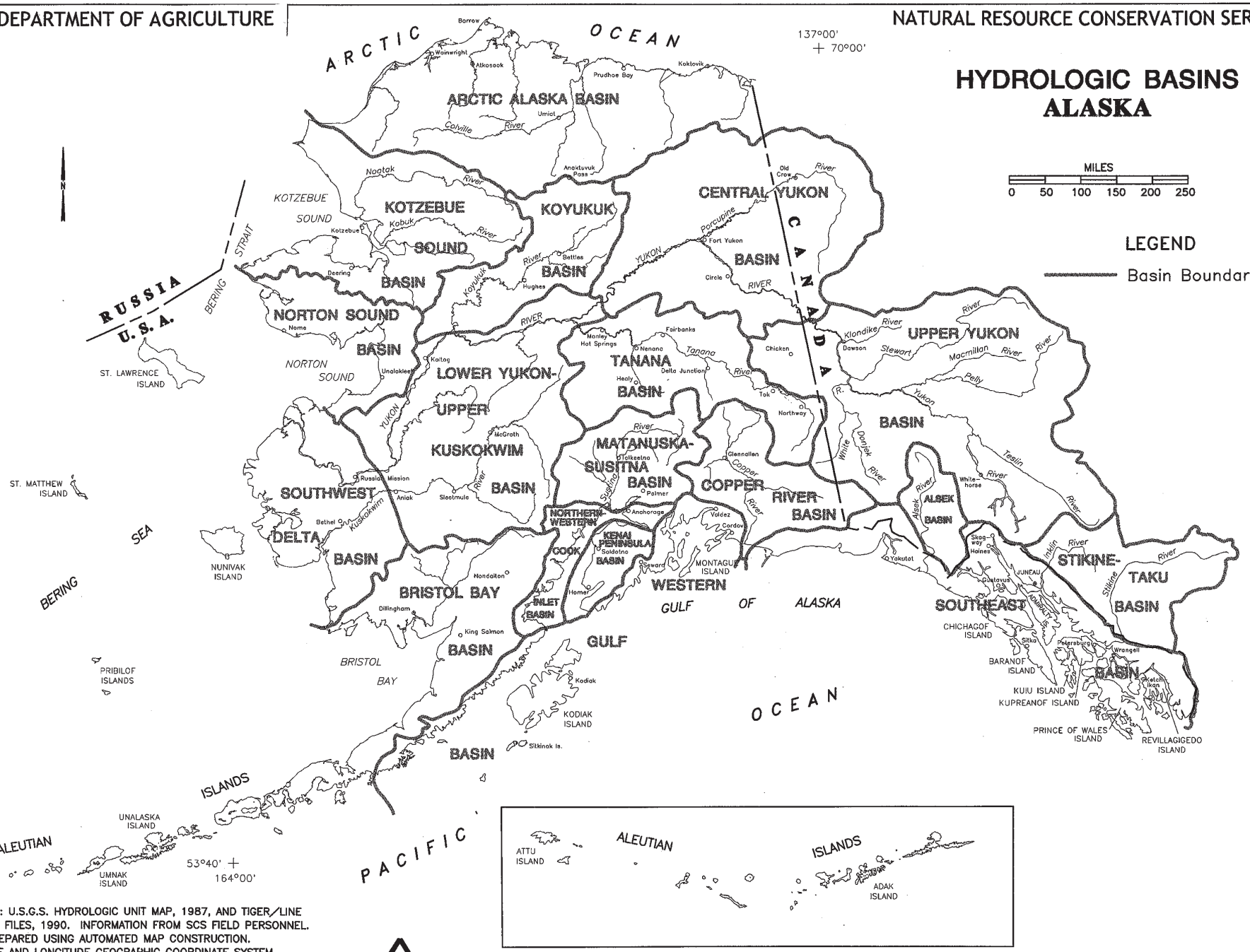
Homer Field Office
Mark Kinney, District Conservationist
Telephone (907) 235-8177 x 103
Facsimile: (907) 235-2364
e-mail: Mark.Kinney@ak.usda.gov

Mat-Su Field Office
District Conservationist
Telephone (907) 373-6492 x 101
Facsimile: (907) 373-7192
e-mail:

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCE CONSERVATION SERVICE

HYDROLOGIC BASINS
ALASKA



SOURCE: U.S.G.S. HYDROLOGIC UNIT MAP, 1987, 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.

REVISED DECEMBER 1993 1003609

USDA, SCS, NATIONAL CARTOGRAPHY & GIS CENTER, FORT WORTH, TX, 1993

510 L Street, Suite 270
Anchorage, Alaska 99501-1949

Alaska
Snow Survey Report

Natural Resources Conservation Service
Anchorage, AK