

United States Department of Agriculture



ALASKA SNOW SURVEY REPORT



March 1, 2011

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General Overview

Snowpack

North of the Alaska Range the snowpack gained considerably with respect to percent of average. For Kotzebue and Norton Sound regions, Kotzebue reported 79 inches of snow depth at the end of February, more than twice average. This increase in snow in February continues east to the Dalton Highway and the White Mountains. The Yukon Flats have below average to above average water contents. The 5 snow courses in the 40 Mile country are collectively right at 100%, average.

The Upper Tanana is much above average with the Lower Tanana near average.

South of the Alaska Range, the Lower Susitna snow courses on the west side of the basin are above average as indicated by Skwentna which measured 12.0 inches of snow water content, 114 percent of average. The east side of the basin along the Parks Highway is well below average with the SNOTEL site at Susitna Valley High reporting 6.1 inches of water content, only 66 percent of average.

For the Copper Basin, the Basin Floor average of 7 snow courses is 89 percent ranging from 111 percent of average at Tolsona Creek to 73 percent of average at Tyone River. The Chugach Range is 79 percent of average, while the Alaska Range remained the same as last month and is 67 percent of normal with the snow course Fielding Lake at 49 percent of normal. To the west, the Talkeetna Mountains are 82 percent of average water content. To the east the Wrangle Mountains are 98 percent of average.

Southeast Alaska is having an average snow pack year with the exception of the Snettisham/Long Lake Hydro project which is at 68 percent of average and the area around Skagway.

For the Yukon Territories, there are 3 snow courses with record snow water contents; Mt. McIntyre B has 8.6 inches tying the previous record set in 2005, the record began in 1975, Williams Creek has 6.0 inches of water content with the previous record being 5.3 inches set in 2009, the record began in 1995 and MacIntosh has 5.6 inches of water content, the previous record being 5.0 set in 1990 with the record beginning in 1976.

Precipitation

The west coast from Kotzebue and south to Nome and Bethel received above normal precipitation for the month of February. This continued inland to Bettles, McGrath and Fairbanks.

In South Central, most of the SNOTEL sites received average to below average precipitation for the month. Mt. Alyeska received 5.7 inches with the normal being 6.5 inches. The lowest percent of average caught was at the Nuka Glacier SNOTEL site where the gauge received 3.3 inches and the average is 7.8 inches, 42% of average.

Southeast Alaska received much greater than normal precipitation as indicated by the Long SNOTEL site receiving 15.3 inches, normal is 8.4 inches.

Temperature

The temperatures were varied from above normal to below normal across the state ranging from 12 degrees F greater than normal at Barrow to 3 degrees F below normal at Juneau. Most of the interior and western Alaska was 3 to 6 degrees F above normal for the month. South Central was 1 to 2 degrees F below normal for the month as was Southeast Alaska.

STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

FORECAST POINT*	Percent of Ave. Flow	Period
Yukon River at Eagle	107	April - July
Porcupine River nr Int'l Boundary.....	100	April - July
Yukon River near Stevens Village.....	106	April - July
Tanana River at Fairbanks.....	106	April - July
Tanana River at Nenana.....	99	April - July
Little Chena River near Fairbanks.....	101	April - July
Chena River near Two Rivers	102	April - July
Salcha near Salchaket.....	87	April - July
Sagvanirktok River near Pump Station 3	102	April - July
Kuparuk River near Deadhorse.....	95	April - July
Kuskokwim River at Crooked Creek	99	April - June
Gulkana River at Sourdough.....	86	April - July
Little Susitna River near Palmer.....	81	April - July
Talkeetna River near Talkeetna	87	April - July
Ship Creek near Anchorage.....	84	April - July
Kenai River at Cooper Landing	93	April - July
Gold Creek near Juneau	103	April - July

SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

FORECAST POINT	INDEX	Index	Key:
Koyukuk River at Hughes	+0.2		
MF Koyukuk R near Wiseman	+0.01		
Slate Creek at Coldfoot.....	+0.5		
Beaver Creek above Victoria Creek	+1.0	-2 to -3	much below average snowmelt runoff
Birch Creek below South Fork.....	-1.1		
Caribou Creek at Chatanika	+0.1		
Susitna River near Gold Creek	-1.1		
Chulitna River near Talkeetna	-1.9	-1 to -2	below average snowmelt runoff
Deshka River at mouth near Willow.....	-1.2		
Montana Creek at Parks Highway	-0.7		
Willow Creek near Willow	-1.9	-1 to +1	average snowmelt runoff
Skwentna River at Skwentna.....	-0.7		
Chuitna River near Tyonek.....	-1.1		
Campbell Creek near Spenard	-1.3	+1 to +2	above average snowmelt runoff
Indian Creek at Indian.....	-2.6		
Bird Creek at Bird Creek.....	-2.6		
Glacier Creek nr Girdwood	-0.8	+2 to +3	much above average snowmelt runoff
Six Mile Creek near Hope.....	-1.0		
Resurrection Creek near Hope	-1.5		
Grouse Ck at Grouse Lake Outlet nr Seward	-1.2		
Anchor River near Anchor Point	-1.8		
Deep Creek near Ninilchik.....	-1.8		
Ninilchik River near Ninilchik	-1.8		
Fritz Creek near Homer.....	-1.5		
Skagway River at Skagway	+1.6		
Municipal Watershed C nr Petersburg	+0.3		

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

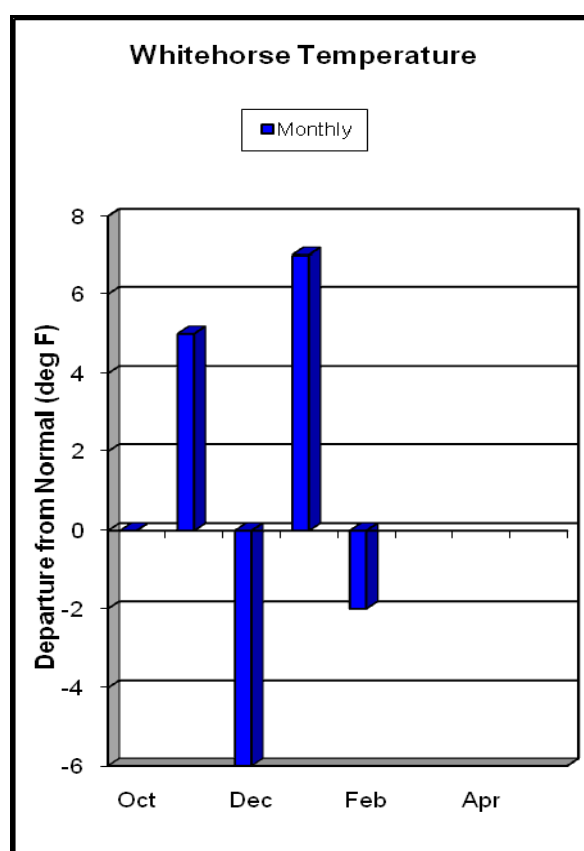
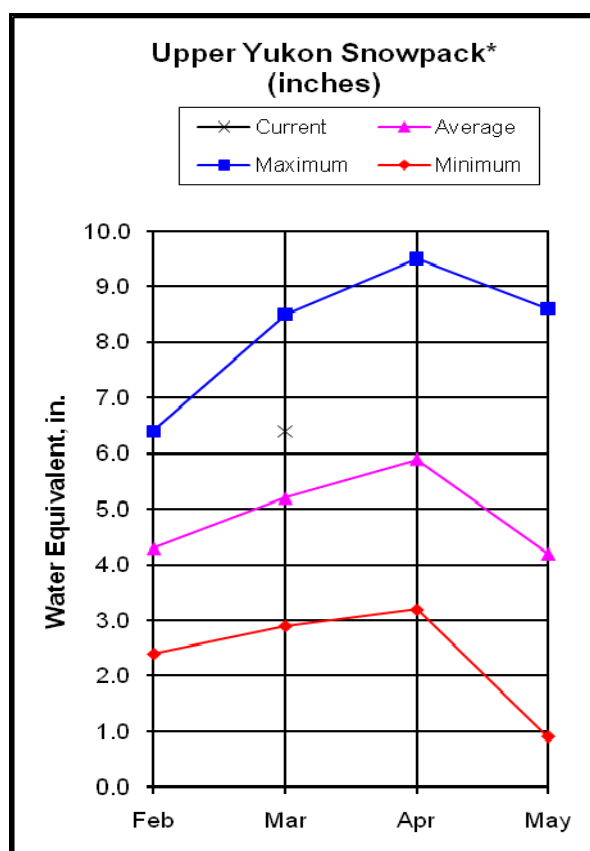
HOW FORECASTS ARE MADE

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 snow courses vary from 200 percent of average at Williams Creek snow course to 74 percent of average at Jordan Lake snow course in the Yukon basin above Whitehorse/Teslin. The basin average is 122%.

There are 3 snow courses with record snow water contents; Mt. McIntyre B has 8.6 inches tying the previous record set in 2005, the record began in 1975, Williams Creek has 6.0 inches of water content with the previous record being 5.3 inches set in 2009, the record began in 1995 and MacIntosh has 5.6 inches of water content, the previous record being 5.0 set in 1990 with the record beginning in 1976.

The six White River snow courses have an average of 163 percent with Burwash Airstrip and MacIntosh being 181 percent of average.

The nine Stewart/Pelly snow courses are 108 percent of average and the three Dawson snow courses are 97 percent of average.

The expected volume flow from snowmelt runoff for the Yukon River at Eagle for the April through July time frame is 36,500,000 acre-ft, 107 percent of average.

* 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	WATER CONTENT
Arrowhead Lake	3680	No Survey			26	4.8	32	6.6
Atlin	2400	2/28/11	20	3.3	---	---	21	4.4
Beaver Creek	2150	2/23/11	27	4.6	15	2.1	17	2.9
Burns Lake	3650	2/25/11	41	7.2	33	5.5	33	7.4
Burwash Airstrip	2660	2/24/11	16	2.9	10	1.7	10	1.6
Calumet	4300	2/23/11	35	5.5	27	4.3	33	6.7
Casino Creek	3500	2/23/11	29	5.9	21	3.0	24	4.0
Chair Mountain	3500	No Survey			---	---	19	3.3
Duke River	4800	No Survey			19	3.8	21	3.7
Edwards Lake	2720	No Survey			23	4.5	29	5.9
Finlayson Airstrip	3240	2/25/11	22	3.6	18	4.2	26	4.5
Fuller Lake	3700	2/27/11	37	7.8	33	6.8	29	6.0
Grizzly Creek	4000	3/01/11	26	4.1	26	4.3	22	4.1
Hoole River	3560	2/25/11	32	4.3	23	4.6	23	4.6
Jordan Lake	3050	2/25/11	22	3.5	24	4.9	24	4.7
King Solomon Dome	3550	2/28/11	33	6.5	24	4.2	29	5.9
Log Cabin (B.C.)	2880	2/23/11	51	14.3	43	13.1	47	12.8
Mayo Airport	1620	2/23/11	22	3.5	17	2.0	18	3.1
MacIntosh	3800	2/23/11	28	5.6	22	3.9	19	3.6
Meadow Creek	4050	2/24/11	44	10.9	42	10.8	38	9.0
Midnight Dome	2800	2/28/11	31	6.0	24	4.3	27	5.3
Montana Mountain	3340	2/23/11	31	7.2	23	5.6	24	5.1
Morley Lake	2700	2/23/11	26	4.6	19	4.1	24	5.3
Mount Nansen	3250	2/23/11	24	4.4	20	3.0	16	2.6
Mt. Berdoe	3390	No Survey			26	5.0	21	3.7
Mt. McIntyre B	3700	2/24/11	35	8.6	28	6.6	26	5.2
Pelly Farm	1550	2/25/11	19	3.5	11	1.9	17	3.0
Plata Airstrip	2500	No Survey			28	5.1	30	6.4
Rackla Lake	3410	No Survey			30	5.5	33	7.0
Russell Lake	3480	2/27/11	47	11.6	31	6.7	36	7.0
Satasha Lake	3620	2/23/11	27	5.9	20	3.2	21	3.8
Tagish	3540	2/24/11	33	8.0	27	5.0	24	4.8
Twin Creeks	2950	2/27/11	34	7.1	26	4.7	31	6.6
White River	2500	No Survey			---	---	15	2.4
Whitehorse Airport	2300	2/24/11	20	4.4	16	3.2	18	3.5
Williams Creek	2800	2/23/11	28	6.0	21	3.8	18	3.0
Withers Lake	3200	No Survey			30	6.2	36	8.2

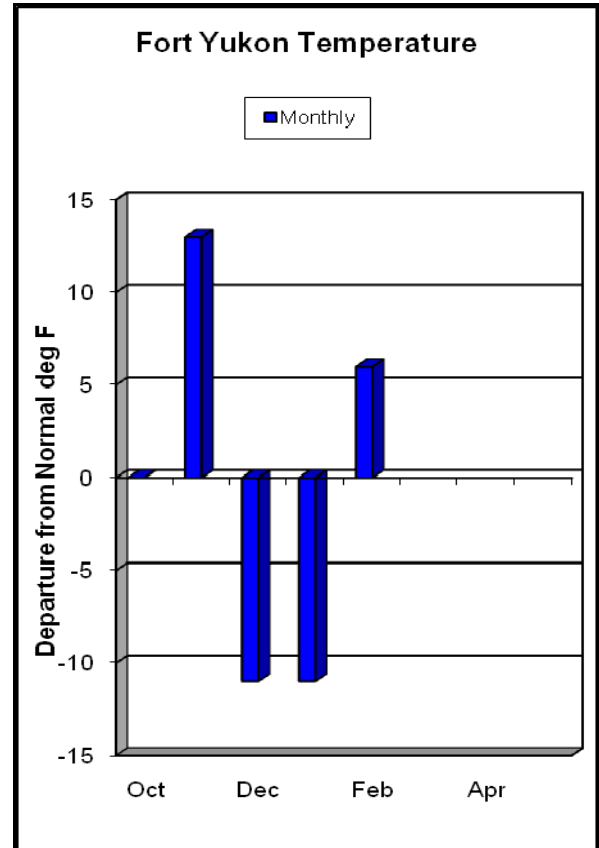
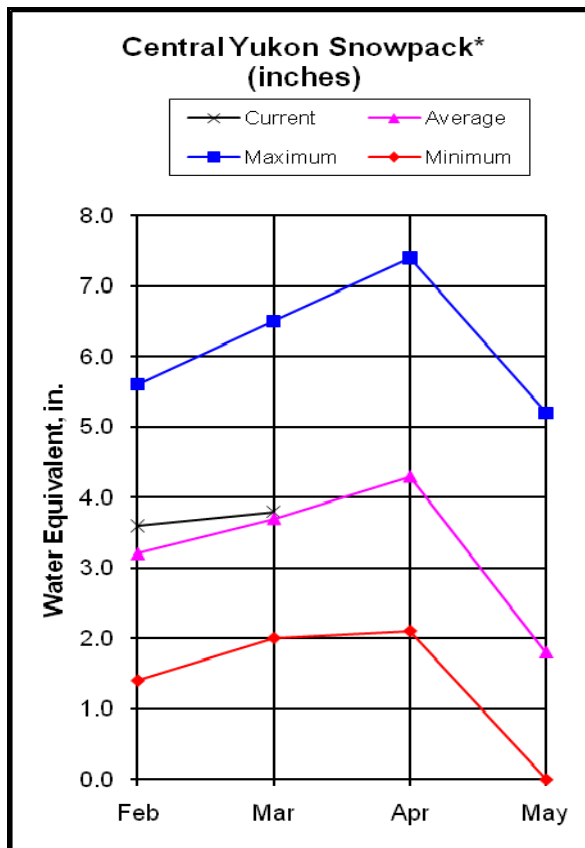
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Yukon River At Eagle	Apr- Jul	34200	36500	107	41300	31700

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Above Whitehorse/ Tetlin	10	118	122
Dawson	3	130	97
Stewart/ Pelly	9	134	108
White River	6	173	163

CENTRAL YUKON BASIN*



Snowcover:

The large central basin varies from normal in the eastern part to much above normal in the western part of the basin. The Fort Yukon SNOTEL site has 24 inches of snow depth. The snow course at Fort Yukon located half mile away has 22 inches and 3.0 inches of water content, 94 percent of normal.

The Coal Creek snow course in the Yukon Charlie National Park has 22 inches of snow depth with 4.3 inches of water content.

The Forty Mile basin is 100 percent of average, exemplified by the Boundary snow course which is 102 percent of average.

In Canada, the Porcupine River basin is 104 percent of average with Riff's Ridge snow course at 118 percent. Eagle Plains and Eagle River are 107 to 87 percent of average range respectively. No measurement from the Old Crow snow course.

The Upper Nome Creek SNOTEL site has 33 inches of snow and an estimated 7.5 inches of water content, in the 130 percent of average range.

The four White Mountains snow courses are 127 percent of average.

* 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	3/02/11	34	6.0	15	2.6	27	4.4
Boundary	3500	2/28/11	21	4.7	21	4.0	24	4.6
Cathedral Creek	1800	2/27/11	36	7.2	16	2.5	---	---
Chicken Airstrip	1650	2/28/11	16	2.4	12	2.1	16	2.7
Circle Hot Springs	860	3/01/11	17	2.8	20	2.7	22	3.7
Coal Creek	1000	2/27/11	22	4.3	16	2.4	---	---
Copper Creek	2000	2/27/11	17	3.5	17	2.5	---	---
Crescent Creek	2600	2/27/11	13	2.5	16	2.3	---	---
Eagle Plains	2570	3/01/11	31	6.3	27	4.6	29	5.9
Eagle River	1200	3/01/11	25	3.9	22	3.2	26	4.5
Fort Yukon	430	3/01/11	22	3.0	16	2.5	19	3.2
Fossil	1400	3/02/11	33	5.2	13	2.0	28	4.5
Graphite Lake	600	No Survey			---	---	17	2.8
Hess Creek	1000	3/01/11	30	5.4	18	3.2	25	4.8
Lost Chicken Hill	2100	No Survey			14	2.3	18	3.1
Lower Beaver Creek	400	No Survey			21	3.0	---	---
Mission Creek	900	No Survey			---	---	18	3.6
Mt. Fairplay	3100	3/01/11	20	4.0	17	4.2	20	3.8
Old Crow	840	No Survey			25	4.5	24	3.9
Riff's Ridge	2130	3/01/11	32	6.0	29	4.6	27	5.1
Seven Mile	600	3/01/11	26	5.2	18	2.6	26	4.6
Stack Pup Creek	1620	3/01/11	22	3.4	19	2.6	24	3.7
Step Mountain	2850	2/27/11	28	5.8	16	2.4	---	---
Thirty Mile	1350	3/01/11	30	5.4	18	2.8	35	7.2
Three Fingers	3350	2/27/11	27	5.5	20	2.7	---	---
Vunzik Lake	500	No Survey			17	2.6	---	---
Upper Nome Creek	2650	2/28/11	33	7.5*	15	2.6*	---	---
Windy Gap	1900	3/03/11	40	8.9	16	3.5	29	4.8
Wolf	1200	3/03/11	30	5.3	12	2.1	26	4.1

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Porcupine River near Intl Boundary	Apr-Jul	5640	5620	100	8346	3785
Yukon River near Stevens Village	Apr- Jul	48200	51200	106	58549	43851

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1st

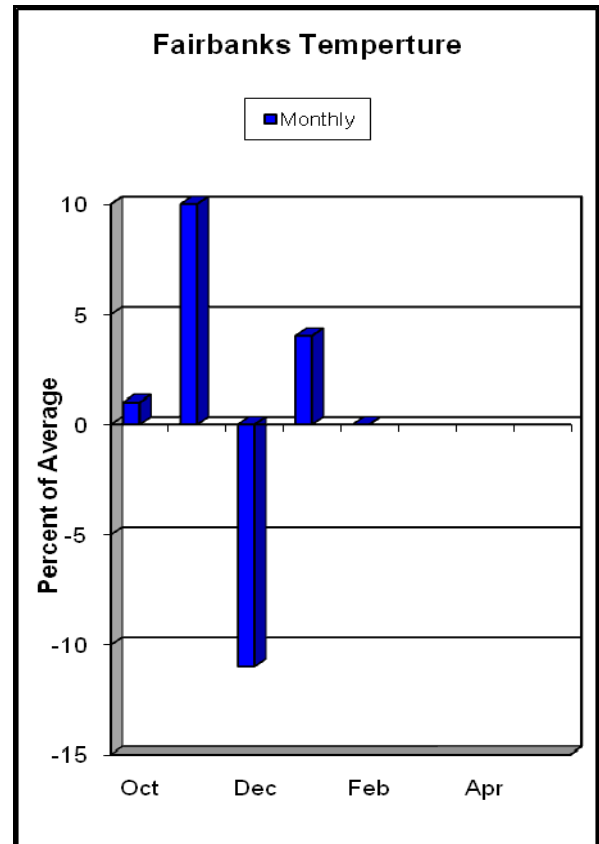
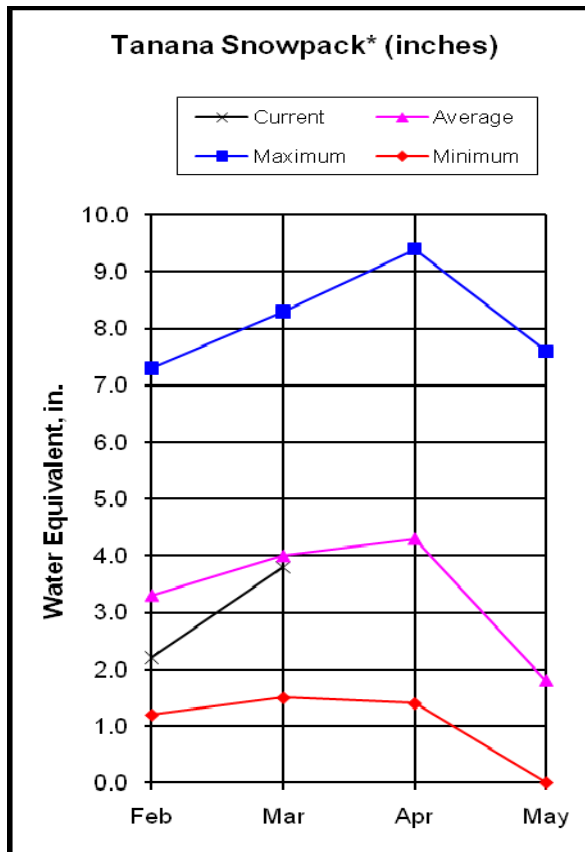
Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Atigun Pass**	4800	2/28/10	5.3	3.7	7.1	75
Chandalar Shelf**	3300	2/28/10	4.7	2.5	4.6	102
Eagle Summit**	3650	3/01/10	4.1	3.3	5.3	77
Fort Yukon	430	2/28/10	3.2	2.0	3.8	84
Mission Creek	900	No Report		---	4.6	---
Upper Nome Creek	2650	2/28/10	7.9	2.5	6.1	130

**Wyoming Shielded Gauge

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Forty Mile	3	117	100
Porcupine (Y.T.)	4	120	104
White Mountains	6	214	127
Yukon Flats	6	175	101

TANANA BASIN*



Snowcover:

The Tanana Basin varies from 113 percent of normal near Tok to 60 percent of average in the Delta Junction area. The Chena is 105 percent and Chatanika basin is 118 percent of average with the Lower Tanana Valley being 87 percent. Fairbanks received a phenomenal 18.6 inches of snow on February 20-21, representing its sixth-greatest two-day snowfall on record. Most (17.1 inches) of Fairbanks' snow fell in a 24-hour period, making it the second-highest 24-hour total on record behind 20.1 inches on February 11-12, 1966.

The Paradise Hill snow course, southeast of Tok, is 166 percent of average. This high percent of average carries into the Yukon at Beaver Creek, reporting 159 percent of average water content. The Fielding Lake snow course south of Delta Junction is 49 percent of average water content. Many of the snow courses in the Lower Tanana Valley moved from around 60 to 70 percent of average last month to near or above average this month.

The expected volume flow from snowmelt runoff for the Chena River near Two Rivers for the April through July time period is 275,000 acre-ft, 102% 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	3/03/11	24	4.9	13	1.7	23	4.7
Caribou Creek	1250	3/01/11	30	6.0	13	2.2	24	4.6
Caribou Snow Pillow	900	3/01/11	29	5.4	14	2.2	24	4.5
Chisana	3320	2/28/11	20	3.7	17	3.1	22	3.4
Cleary Summit	2230	3/01/11	36	6.3	20	4.2	29	6.0
Colorado Creek	700	2/28/11	28	4.2	18	2.3	23	4.4
Edgar Creek	2400	No Report			---	---	27	6.1
Fairbanks FO	450	2/28/11	24	3.4	12	2.0	23	4.1
Faith Creek	1900	3/01/11	30	5.3	14	2.2	27	4.4
Fielding Lake	3000	2/28/11	28	5.0	30	5.8	41	10.2
Fort Greely	1500	3/02/11	16	2.6	18	2.0	18	3.2
French Creek	1800	3/02/11	28	4.7	14	2.2*	26	5.9
Gerstle River	1200	3/02/11	14	1.6	18	1.6	19	3.0
Gold King	1700	No Report			---	---	21	3.9
Granite Creek	1240	2/28/11	14	2.2	14	3.1	19	3.5
Jatahmund Lake	2180	2/28/11	22	3.8	14	2.2	18	2.9
Kantishna	1550	2/28/11	25	4.6*	14	2.1*	28	5.3
Lake Minchumina	730	3/01/11	23	3.7	---	---	21	4.0
Little Chena Ridge	2000	No Report			15*	2.1	27	5.4
Lost Creek	3030	No Report			---	---	26	4.8
Mentasta Pass	2430	2/28/11	27	4.8	23	4.3	26	5.8
Monument Creek	1850	2/28/11	29*	5.1	12*	1.4	24	4.7
Mt. Ryan	2800	No Report			18*	2.3	30	6.2
Munson Ridge	3100	2/28/11	36*	7.6	25*	4.4	36	8.3
Paradise Hill	2200	3/01/11	24	4.7	14	2.2	18	3.0
Ptarmigan Airstrip	2400	No Report			---	---	17	3.1
Ptarmigan Creek	2230	3/01/11	26	4.3	18	2.7	17	3.1
Rock Creek Bottom	2250	2/27/11	29	4.2	15	1.8	22	4.2
Rock Creek Ridge	2600	2/27/11	33	5.1	15	1.8	26	4.9
Shaw Creek Flats	980	3/02/11	16	2.5	16	1.7	17	3.1
Stampede	1800	No Report			---	---	---	---
Teuchet Creek	1640	2/28/11	23	4.4	10	2.6	23	3.8
Tok Junction	1650	2/28/11	22	3.4	20	2.9	19	3.2
Upper Chena Pillow	2850	2/28/11	35	6.9*	22	3.1*	30	6.6
Upper Wood River	2990	No Report			---	---	27	5.2

*Estimate

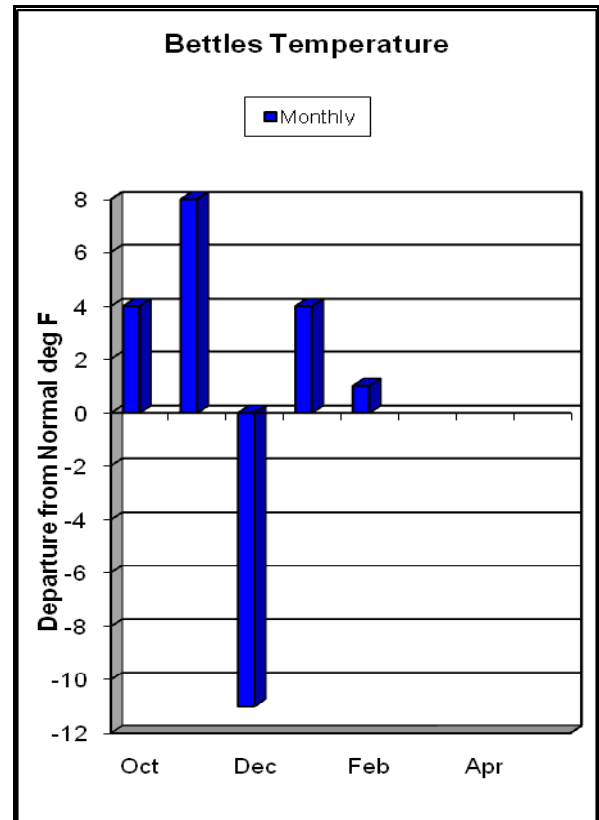
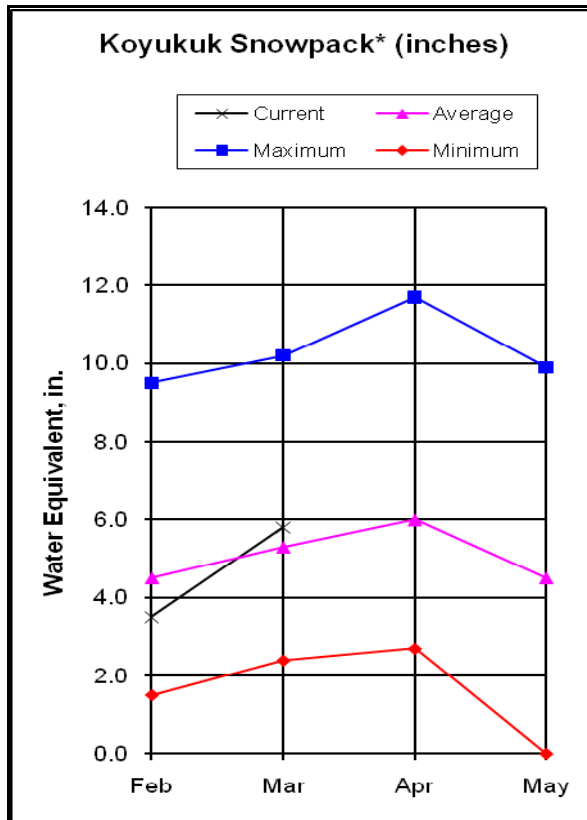
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Tanana River at Fairbanks	Apr- Jul	7100	7510	106	8528	6492
Little Chena River near Fairbanks	Apr-Jul	78	79	101	108	50
Chena River near Two Rivers	Apr-Jul	270	275	102	391	159
Salcha River near Salchaket	Apr- Jul	625	545	87	773	357
Tanana River at Nenana	Apr- Jul	9000	8910	99	10118	7702

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Chatanika	4	209	118
Chena Basin	8	201	105
Lower Tanana Valley	5	235	87
Mid Tanana Valley (Delta Junction)	5	101	62
Upper Tanana Valley (Tok)	6	151	120

WESTERN INTERIOR BASINS*



SNOWCOVER:

Koyukuk

Coldfoot appears to be the only snow course below average in the basin at 70 percent. Bettles has 7 inches of water content and is 115 percent of normal. Bonanza Forks is 133 percent with 6.8 inches of water content. In the Kanuti National Wildlife Refuge, the Nolinta snow course was measured and has 30 inches of snow with 5.2 inches of snow water content.

Kuskokwim

The Lake Minchumina snow course is 92 percent of normal with 23 inches of snow and Purkeypile Mine snow course has 27 inches of snow with 5.3 inches of water content, 126 percent of average.

Lower Yukon

The snow courses in the Innoko Wildlife Refuge range from 204 percent at Wapoo Hills snow course to 103 percent of normal at Yankee slough. Most are in the 120 percent of normal range.

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

Western Interior Basins

SNOWPACK DATA

SNOW COURSE			THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
ELEV.	DATE	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	
Koyukuk								
Bettles Field	640	3/04/11	33	7.0	19	2.5	30	6.1
Bonanza Forks	1200	3/01/11	35	6.8	13	2.0	26	5.1
Cloverleaf	170	2/28/11	32	6.0	21	3.5	---	---
Coldfoot	1040	3/02/11	32	5.9	16	2.5	30	6.0
Colville Bend	170	2/28/11	32	5.7	15	2.5	---	---
Disaster Creek	1550	3/02/11	22	4.1	15	1.8	22	3.6
Huggins Creek	290	2/28/11	37	6.2	10	1.7	---	---
JR Slough	160	2/28/11	32	5.5	22	3.5	---	---
Kaldoyeit	750	2/28/11	26	6.2	12	2.1	---	---
Kanuti-Chalatna	670	2/28/11	35	7.0	22	3.0	---	---
Kanuti-Kilolitna	550	2/28/11	22	5.5	6	1.2	---	---
Lake Todatonten	550	No Survey			15	1.9	27	5.1
Minnkokut	580	3/03/11	30	4.8	20	2.8	---	---
Nolitna	560	3/03/11	30	5.2	15	2.0	---	---
Table Mountain	2200	3/02/11	20	4.0	11	1.4	23	4.1
Taiholman	540	2/28/11	18	4.0	1	0.2	4	1.3
Treat Island	190	2/28/11	37	6.2	6	1.3	---	---
Kuskokwim								
Aniak Farm	80	3/01/11	19	3.6	7	1.0*	---	---
Holitna River	257	3/01/11	27	5.1	24	4.0	---	---
Holokuk River	367	3/01/11	20	3.8	7	1.7	---	---
Johnny Slu	180	3/01/11	18	3.4	---	---	---	---
Kogruk	493	3/01/11	33	6.2	33	5.2	---	---
Lake Minchumina	730	3/01/11	23	3.7	---	---	21	4.0
Lower Aniak	164	3/01/11	21	4.0	---	---	---	---
McGrath	340	3/01/11	20*	3.9*	17	3.0*	30	5.7
Middle Kuskokwim	297	3/01/11	41	7.6	---	---	---	---
N. Fork Kuskokwim	512	2/26/11	36	6.8	20	4.0	---	---
Nixon Fork	508	2/26/11	34	6.4	---	---	---	---
Purkeypile Mine	2025	3/01/11	27	5.3	---	---	21	4.2
Telaquana Lake	1550	3/02/11	21	3.9	10	1.6	20	4.0
Upper Aniak	781	3/01/11	28	5.2	---	---	---	---
Upper Twin Lakes	2000	No Report			---	---	27	7.0
Lower Yukon								
Deer Creek	190	2/28/11	34	6.0	15	2.6	---	---
Grouch Creek	220	3/01/11	43	8.0	31	6.0	40	8.5
Holikachuk	100	3/01/11	43	8.8	30	6.1	36	7.8
Horsefly Creek	180	3/01/11	35	7.0	34	6.3	28	5.7
Innoko Inn	200	3/01/11	24	4.7*	---	---	---	---
Little Mud River	855	2/28/11	21	4.0	16	2.5	---	---
Lower Nowitna River	205	2/28/11	23	4.0	18	3.0	---	---
Middle Innoko	150	3/01/11	40	8.0	32	5.9	36	7.4
Nine Mile Island	140	2/27/11	38	6.3	15	2.3	---	---
Pike Trap Lake	130	2/27/11	17	3.0	7	1.0	---	---
Squirrel Creek	150	2/27/11	26	5.0	21	3.4	---	---
Tozikaket	600	No Survey			10	2.0	23	4.4
Upper Innoko	180	3/01/11	39	7.8	24	4.5	35	7.8
Wapoo Hills	220	3/01/11	54	10.0	33	6.3	32	7.0
Yankee Slough	100	3/01/11	44	8.0	39	6.9	41	9.4

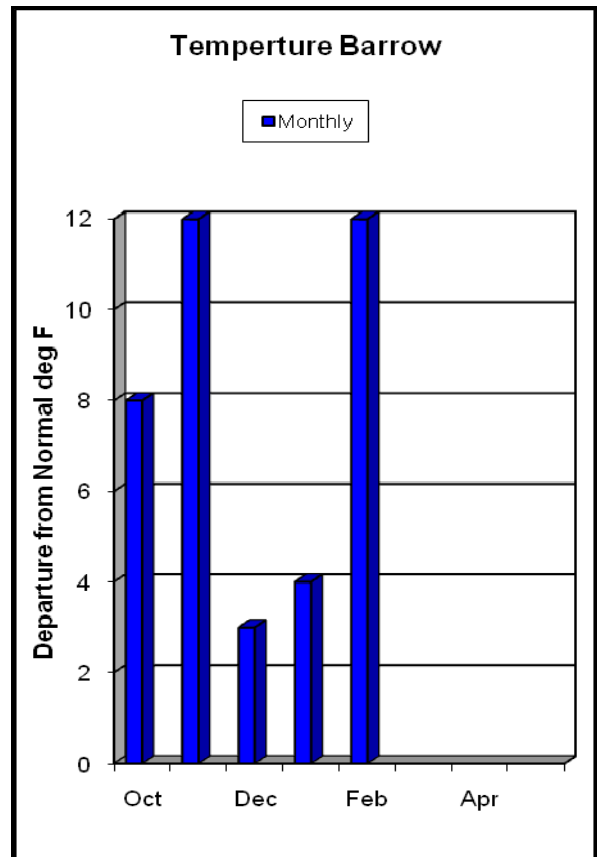
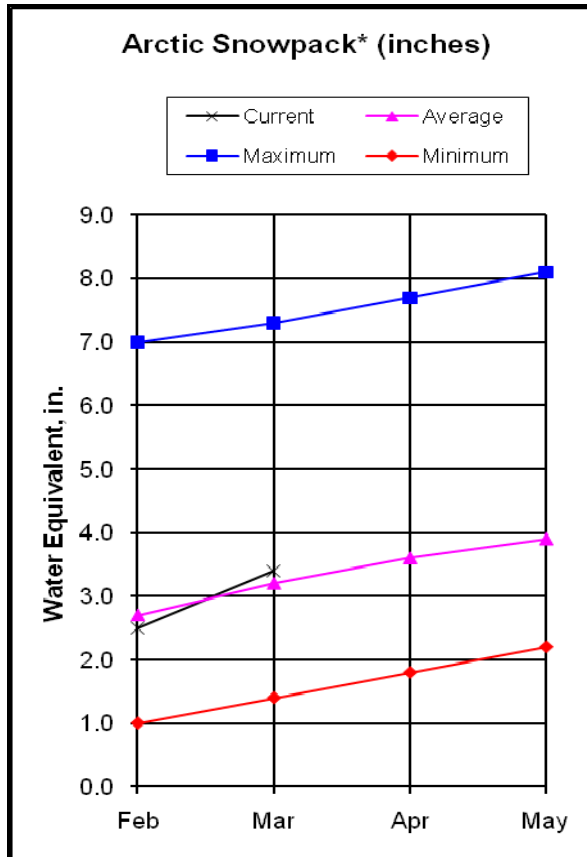
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Kuskokwim River at Crooked Creek	Apr-Jul	10500	10400	99	13697	7103

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Koyukuk	9	254	110
Upper Kuskokwim	5	154	96
Lower Yukon	8	146	128

ARCTIC AND KOTZEBUE SOUND*



Snowcover:

Arctic

The Imnaviat Creek SNOTEL site has recorded 4.9 inches of precipitation this water year which is 144% of average. The Atigun Pass SNOTEL site has received 5.3 inches of precipitation since October 1st or 76 percent of average. It has 17 inches of snow on the ground.

Kotzebue

The Kotzebue area has the more snow on the ground than what has been observed for the last 26 years. The NWS observer reports 79 inches of snow on the ground, this has to be greater than twice the average.

The Red Dog mine precipitation gauge has received 5.8 inches of precipitation since October 1st, 104% of normal.

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

Arctic and Kotzebue Sound

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Arctic						
Atigun Camp	3400	2/28/10	3.4	2.0	3.5	97
Atigun Pass	4800	2/28/10	5.3	3.7	7.1	75
Barrow	25	No Report		---	2.6	---
Imnaviat Creek	3050	2/28/10	4.9	2.4	3.4	144
Prudhoe Bay	30	No Report		---	3.4	---
Sagwon	1000	No Report		---	3.3	---
Kotzebue Sound						
Kivalina	50	2/28/10	5.9	1.4	---	---
Red Dog**	950	2/28/10	5.8	2.2	5.6	104

** Wyoming Shielded Gauge

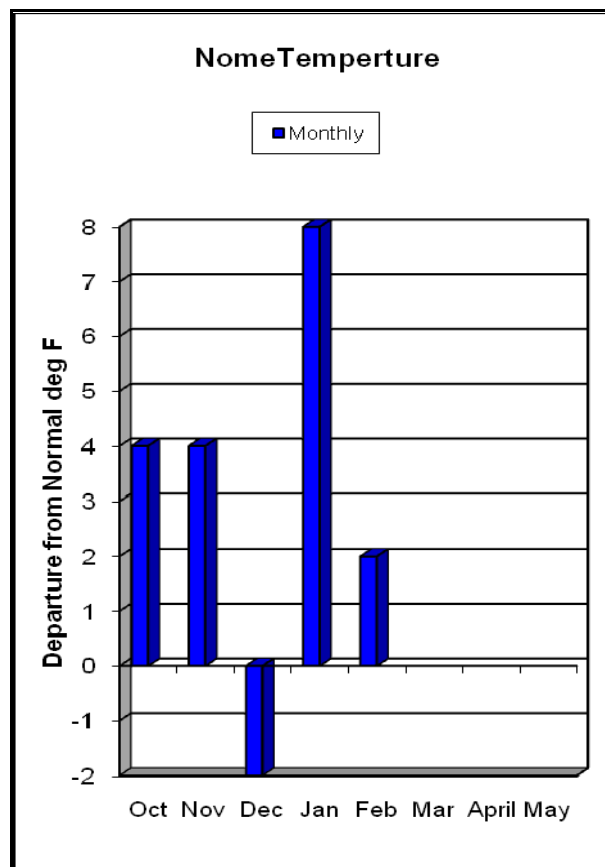
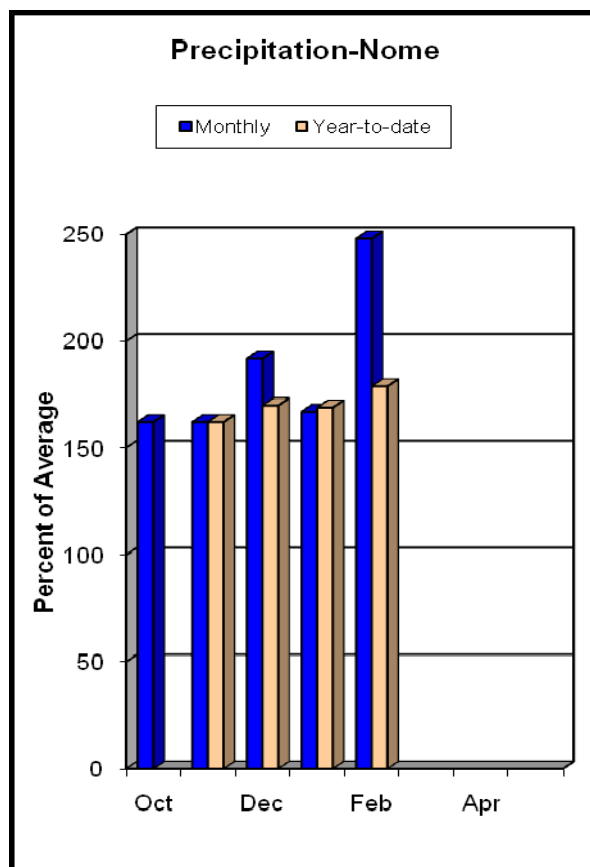
STREAMFLOW FORECASTS

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	700	102	844	556
Kuparuk River near Deadhorse	Apr-Jul	795	755	95	995	515

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Arctic Coast	No Report		
Dalton Highway	3	168	97

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*



Snowcover:

Norton Sound

The Rocky Point SNOTEL site has 22 inches of snow on the ground and an estimated 5.0 inches of water content. The Johnson Camp SNOTEL site, in the “blow hole” at Solomon, 30 miles east of Nome, has 24 inches of snow on the ground as of March 1st, last year there was 6 inches of snow depth.

Southwest Delta

The Aniak SCAN site, which is located at the Aniak Farm, has 19 inches of snow depth with an estimated 3.6 inches of water content. This is probably in the 90 percent of normal range. Bethel has received a greater than normal amount of precipitation in February to continue its above average trend for the year.

Bristol Bay

This area appears to have very little snow with 8 inches recorded at Brooks Camp, it may be half this with bare spots everywhere. The Three Forks aerial marker measured 14 inches of snow, however there are windswept bare areas.

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

Norton Sound / Southwest Delta / Bristol Bay

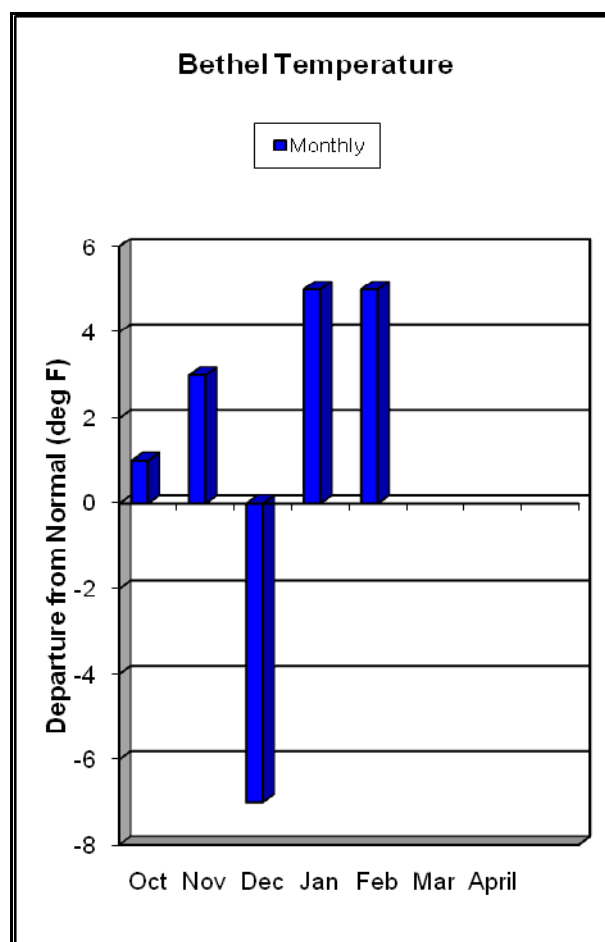
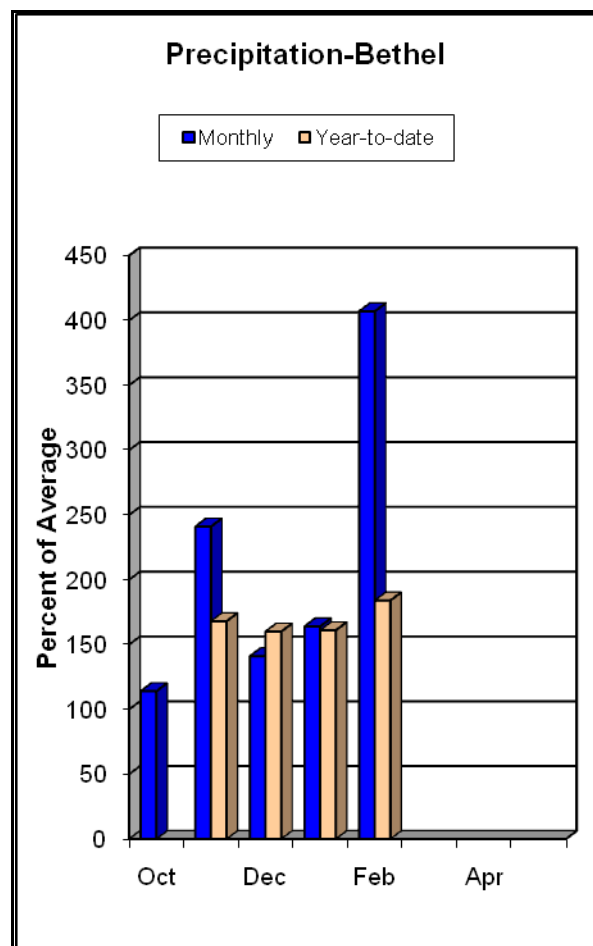
SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Bristol Bay								
Brooks Camp	150	3/02/11	14	2.5	6	1.0	---	---
Fishtrap Lake	1800	No Survey			---	---	40	9.7
Port Alsworth	270	2/28/11	19	3.5	2	0.5	15	4.2
Three Forks	1300	3/02/11	8	1.5	7	1.2	---	---
Upper Twin Lakes	2000	No Survey			---	---	27	7.0
Norton Sound								
Johnson's Camp	25	2/28/11	24	5.2*	5	1.0	---	---
Pargon Creek	100	2/28/11	36	5.3*	10	2.1*	---	---
Rocky Point	500	2/28/11	22	5.0*	12	2.3*	---	---

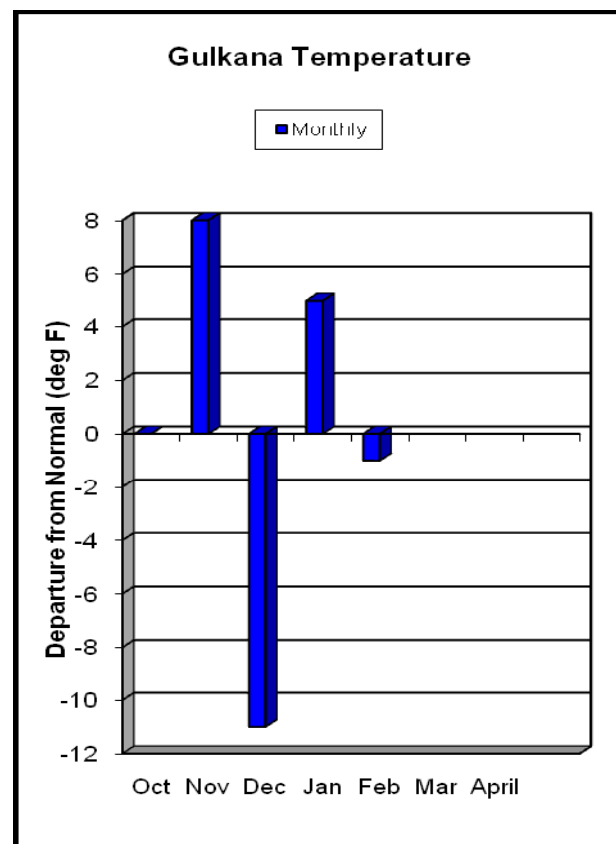
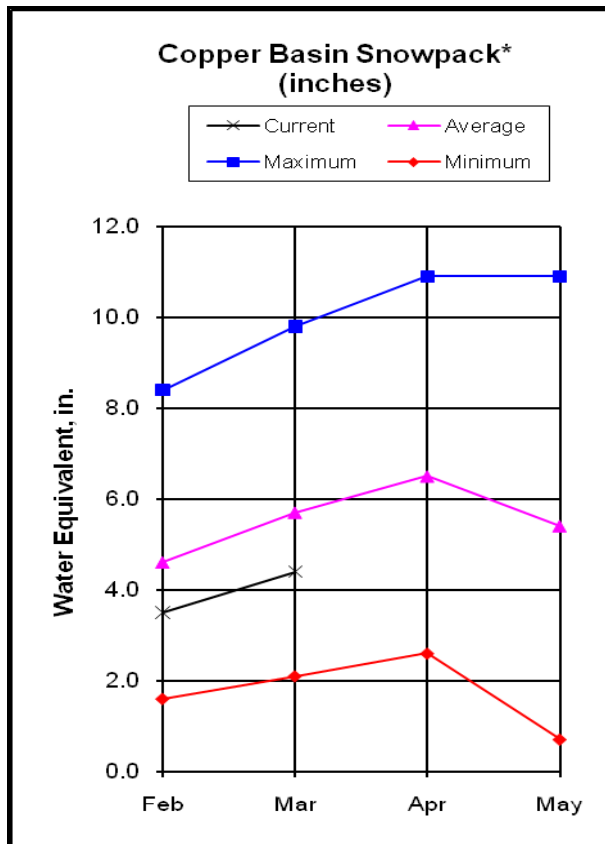
PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Pargon Creek	100	2/28/11	5.6	2.2	4.3	130
Rocky Point	500	No Report		3.4	4.8	---



COPPER BASIN*



Snowcover:

The snow water contents for the 5 regions of the basin are all below average.

The Basin Floor 7 snow courses average 89 percent, ranging from 111 percent of average at Tolsona Creek to 73 percent of average at Tyone River. The Chugach Range is 79 percent of average, while the Alaska Range remained the same as last month and is 67 percent of normal with the snow course Fielding Lake at 49 percent of normal. To the west, the Talkeetna Mountains are 82 percent of normal water content.

On the east side, the 3 snow courses averaged for the Wrangell Mountains are 98 percent of average water content.

The Gulkana River at Sourdough expected volume flow for the April through July time period is 410,000 acre-feet, 86 percent of average.

* 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	2/28/11	21	3.0	20	3.0	22	3.5
Chokosna	1550	3/03/11	26	4.9	---	---	---	---
Dadina Lake	2160	3/02/11	28	5.2	---	---	29	5.1
Fielding Lake	3000	2/28/11	28	5.0	30	5.8	41	10.2
Haggard Creek	2540	2/28/11	27	4.5	23	3.9	27	5.6
Horsepasture Pass	4300	3/02/11	22	4.5	21	4.3	28	5.6
Kenny Lake School	1300	2/28/11	22	3.0	18	3.3	18	3.4
Lake Louise	2400	3/01/11	23	4.1	18	2.8	22	4.0
Little Nelchina	2650	3/01/11	24	4.4	20	3.6	24	4.6
Long Glacier	4820	3/04/11	24	4.2	---	---	---	---
May Creek	1610	2/28/11	26	3.8	27	3.4	26	4.4
Mentasta Pass	2430	2/28/11	27	4.8	23	4.3	26	5.8
Monsoon Lake	3100	3/02/11	23	4.0	16	2.2	28	5.6
Mt. Eyak	1405	2/28/11	56	18.1	61	24.6	67	19.6
Notch	2643	3/04/11	16	3.0	---	---	---	---
Paxson	2650	2/28/11	26	5.0	21	3.4	31	6.6
Sanford River	2280	3/02/11	28	5.2	---	---	28	5.4
St. Anne Lake	1990	3/02/11	25	4.0	20	3.8	25	4.9
Tazlina	1225	2/28/11	24	3.1	22	3.7	20	3.7
Tebay Lake	1930	No Report	---	---	---	---	---	---
Tolsona Creek	2000	2/28/11	25	4.2	20	2.9	22	3.8
Tsaina River	1650	3/01/11	47	11.8	51	12.7	56	15.7
Twin Lakes	2400	3/02/11	25	4.0	25	4.6	31	5.9
Upper Tsaina River	1750	2/28/11	61	12.7	64	16.2	64	18.5
Worthington Glacier	2100	3/01/11	67	20.3	71	21.8	68	21.6

*Estimate

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
May Creek	1610	2/28/11	3.9	5.7	---	---
Strawberry Reef	50	2/28/11	41.9	31.5	40.8	103
Upper Tsaina River	1750	2/28/11	16.9	14.5	23.4	72

STREAMFLOW FORECASTS

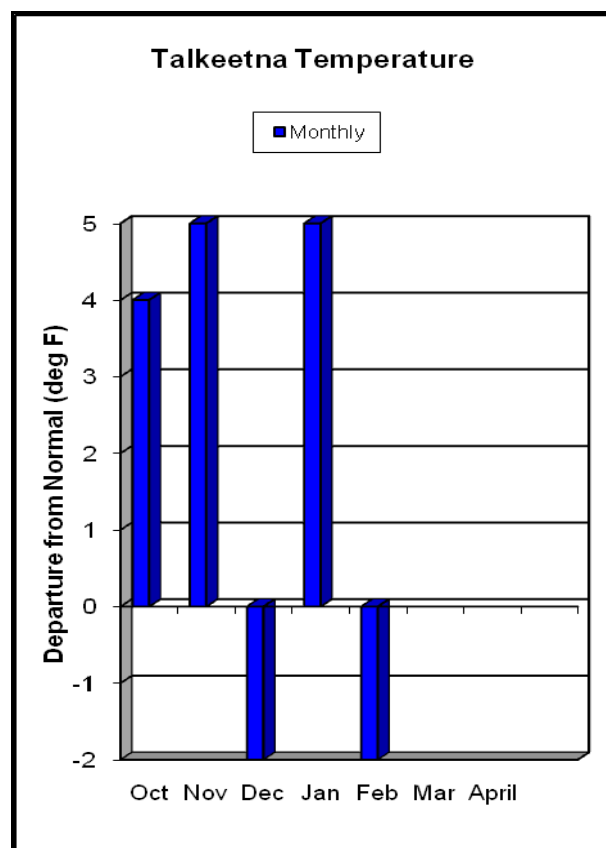
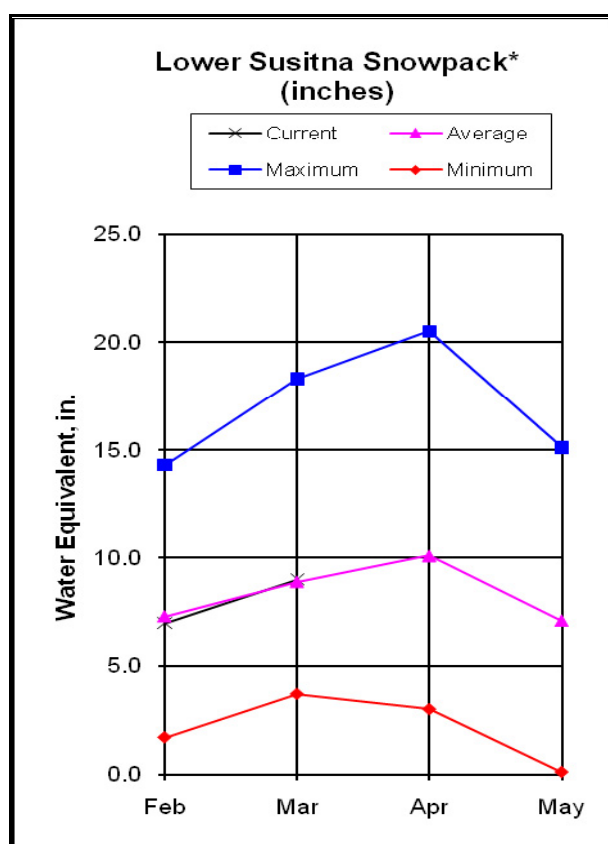
FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Gulkana River at Sourdough	Apr- Jul	475	410	86	576	244

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Alaska Range**	4	120	67
Basin Floor	6	117	89
Chugach Range	6	89	79
Talkeetna Mountains	3	102	82
Wrangell Mountains	4	97	98

**At the foot of the Alaska Range.

MATANUSKA - SUSITNA BASINS*



Snowcover:

The Susitna Basin snow courses range from below average to well below average. The 7 snow courses in the Matanuska/Little Susitna are well below average at 63 percent. Snow water contents range from 54 percent of average at the Little Sustina snow course to 98 percent of average at the Point MacKenzie snow course.

For the Lower Susitna snow courses, the west side of the basin is above average as indicated by Skwentna which measured 12.0 inches of snow water content, 114 percent of average.

The east side of the basin along the Parks Highway is well below average with the SNOTEL site at Susitna Valley High reporting 6.1 inches of water content, only 66 percent of average.

The Denali View snow course, at Mile 131 of the Parks Highway, is 103 percent of average.

The Sheep Mountain snow course water content is 4.7 inches, 87 percent of average.

The expected volume flow from snowmelt runoff for the Little Sustina River for the April through July time period is 70,000 acre-ft, 81 percent of average.

* 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	2/28/11	45	11.3	35	9.0	43	10.7
Archangel Road	2200	3/01/11	37	7.6	33	8.1	47	13.5
Bentalit Lodge	150	2/28/11	41	9.3	31	7.6	35	8.0
Blueberry Hill	1200	3/02/11	49	13.5	32	8.0	53	13.8
Chelatna Lake	1450	No Survey			---	---	42	10.0
Clearwater Lake	2650	3/02/11	22	3.2	16	2.4	26	5.1
Curtis Lake	2850	3/02/11	20	3.5	20	3.5	---	---
Denali View	700	3/02/11	44	11.7	30	7.2	46	11.4
Dunkle Hills	2700	No Survey			---	---	---	---
Dutch Hills	3100	No Survey			---	---	76	23.0
E. Fork Chulitna	1800	3/02/11	47	10.8	30	6.6	51	12.7
Eldridge Glacier	3400	No Survey			---	---	---	---
Fishhook Basin	3300	3/01/11	42	10.9	33	8.6	58	17.7
Fog Lakes	2120	3/02/11	27	4.6	17	2.3	26	5.3
Halfway Slough	350	3/02/11	27	6.4	20	4.9	---	---
Independence Mine	3550	3/01/11	48	12.5	40	11.2	66	21.2
Lake Louise	2400	3/01/11	23	4.1	18	2.8	22	4.0
Little Susitna	1700	3/01/11	32	6.3	31	7.2	42	11.6
Monahan Flat	2710	2/28/11	30	4.5*	21	3.6	34	7.4
Moose Creek Ranch	450	3/01/11	9	2.0	13	2.5	---	---
Nugget Bench	2010	No Survey			---	---	51	12.9
Ramsdyke Creek	2220	No Survey			---	---	66	18.9
Sheep Mountain	2900	3/01/11	23	4.7	23	4.8	26	5.4
Skwentna	160	2/28/11	47	12.0	34	8.9	43	10.5
Square Lake	2950	3/02/11	19	3.0*	18	2.9	22	3.8
Susitna Valley High	375	2/28/11	28	6.1	27	5.5	39	8.3
Talkeetna	350	3/02/11	27	6.5	21	4.5	32	7.6
Tokositna Valley	850	2/28/11	52	12.7	36	9.7	67	15.7
Tyone River	2500	3/02/11	19	3.2	---	---	23	4.4
Upper Oshetna River	3150	3/02/11	24	4.1	19	3.3	---	---
Upper Sanona Creek	3100	3/02/11	24	4.3	21	3.6	29	5.2
Willow Airstrip	200	3/02/11	26	6.0	24	3.9	30	6.9

*Estimate

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (kaf)	MIN (kaf)
Little Susitna River near Palmer	Arp-Jul	86	70	81	96	44
Talkeetna River near Talkeetna	Apr-Jull	1630	1420	87	1704	1136

PRECIPITATION DATA

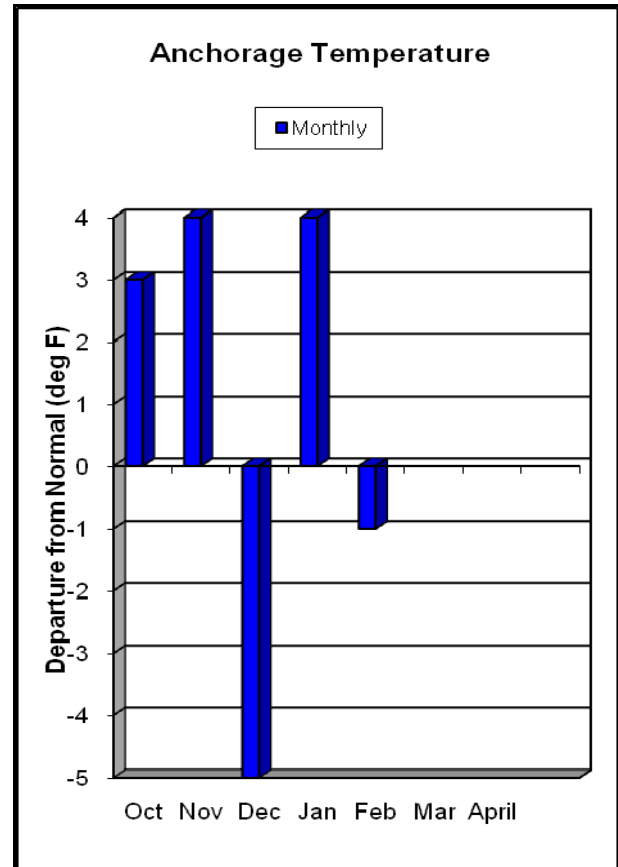
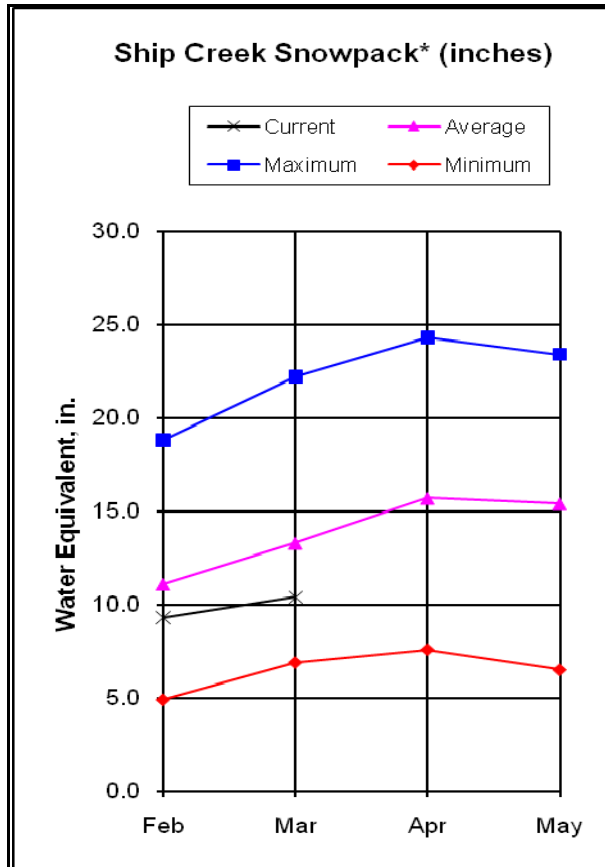
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Independence Mine	3550	3/01/11	12.6	10.1	22.1	57
Monahan Flat	2710	2/28/11	5.1	3.9	7.3	70
Susitna Valley High	375	2/28/11	9.6	7.9	10.3	93
Tokositna Valley	850	2/28/11	15.7	10.9	16.2	97

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Lower Susitna	5	127	93
Matanuska/Little Susitna	6	105	63
Peters Hills	2	147	87
Upper Susitna	11	143	88

NORTHERN COOK INLET*



Snowcover:

The Northern Cook Inlet region varies from 117 percent of average at Congahbuna Lake, near Tyonek, to 70 percent of average at Anchorage hillside. The Congahbuna Lake snow course has 40 inches of snow depth with 10.4 inches of water content.

For the SNOTEL sites in the Anchorage area; Indian Pass is 79 percent of average with 51 inches of snow and 15.4 inches of water content, Anchorage Hillside is 70 percent of average reporting 29 inches of snow with 6.2 inches of water content, Mt. Alyeska has 65 inches of snow and 17.6 inches of water content, which is 60% of average and Moraine has 24 inches of snow depth with 5.3 inches of water content, 80% of average.

For the west side of Cook Inlet, the aerial markers Chuitna Plateau and Lone Ridge are 51 inches and 67 inches respectively. The Granite Point snow course has 17 inches of snow depth with an estimated 4.2 inches of water content, 75 percent of average.

The Arctic Valley snow courses varied from 87 percent of average at Arctic Valley #1 (500 ft. elev.) to 91 percent of average at the Arctic Ski Bowl (3000 ft. elev.)

The Snowmelt Runoff Index for the Campbell Creek near Spenard is -1.3, below average.

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

Northern Cook Inlet

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
Anchorage Hillside	2080	2/28/11	29	6.2	36	7.7	35	8.9
Arctic Ski Bowl	3000	2/28/11	37	10.8	26	7.1	38	11.9
Arctic Valley #1	500	2/28/11	15	3.4	20	4.1	17	3.9
Arctic Valley #2	1000	2/28/11	18	3.1	23	3.9	20	4.6
Arctic Valley #3	1450	2/28/11	26	5.2	27	7.2	28	6.9
Arctic Valley #4	2130	2/28/11	25	5.4	25	5.9	27	6.9
Chuitna Plateau	1540	2/28/11	51	17.8	---	---	68	24.6
Congahbuna Lake	500	2/28/11	40	10.4	28	7.2	32	8.9
Granite Point	250	2/28/11	17	4.2	11	2.7	22	5.6
Indian Pass	2350	2/28/11	51	15.4	52	14.7	64	19.8
Kincaid Park	250	3/01/11	18	3.8	17	3.8	17	4.0
Lone Ridge	1675	2/28/11	67	23.8	---	---	79	28.8
Moraine	2100	2/28/11	24	5.3	34	8.1	27	6.6
Mt. Alyeska	1540	2/28/11	65	17.7	75	23.6	92	29.7
Point Mackenzie	200	2/28/11	19	4.1	16	3.5	19	4.0
Portage Valley	50	3/01/11	25	8.5	27	10.0	39	12.9
South Campbell Creek	1200	3/02/11	22	5.5	31	5.6	26	6.2
<i>*Estimate</i>								

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	49	84	63	35

PRECIPITATION DATA

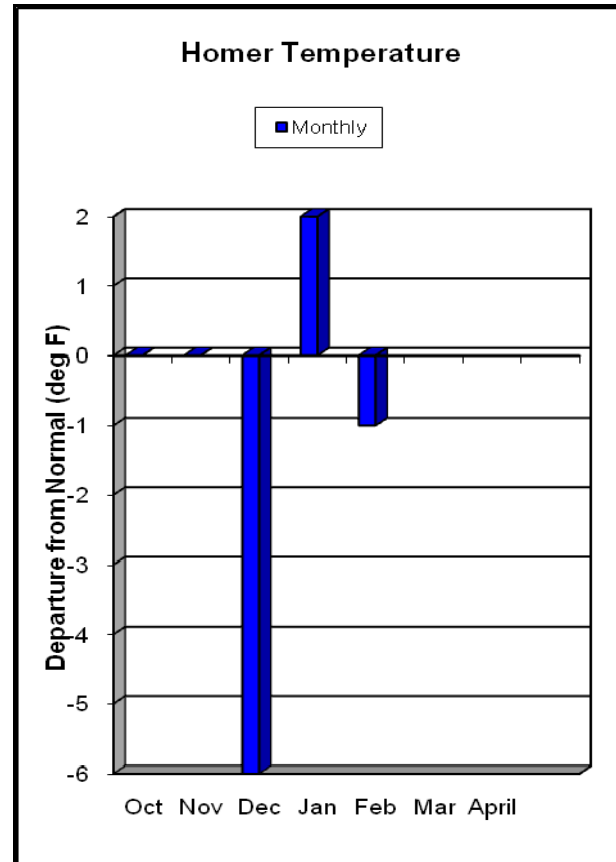
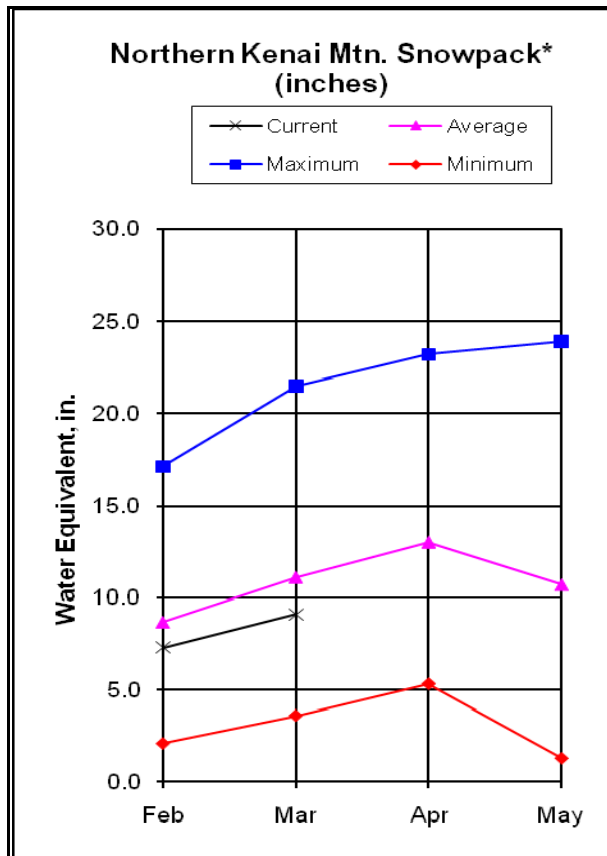
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation	Date	This Year	Last Year	71-2000 Ave	% of Average
Anchorage Hillside	2080	2/28/11	10.4	11.1	11.6	90
Indian Pass	2350	2/28/11	19.9	18.1	21.1	94
Moraine	2100	2/28/11	9.0	9.3	8.5	106
Mt. Alyeska	1540	2/28/11	37.3	33.7	37.5	100
Point Mackenzie	200	2/28/11	5.9	5.4	6.9	86

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Beluga	4	147	85
Campbell Creek	3	89	80
Ship Creek	8	93	79
Turnagain Arm	3	69	66

KENAI PENINSULA*



Snowcover:

The Northern Kenai Mountains again had one snow course measuring above average this month, Jean Lake at 132 percent of average. The 11 snow courses average 80 percent with Turnagain Pass SNOTEL site on the lower side at 70 percent. The Cooper Lake SNOTEL site is reporting 45 inches of snow depth with 11.2 inches of water content, 76 percent of average.

For the Northern Kenai Flats, the Kenai Moose Pens SNOTEL site is reporting 20 inches of snow depth with 4.5 inches of water content, 121% of average.

Northeast of Homer, the Anchor River Divide SNOTEL site reported 36 inches of snow depth with 8.4 inches of water content, and is 82% of average.

Across Kachemak Bay from Homer, Port Graham SNOTEL site has 12 inches of snow with 3.3 inches of snow water content, and is 67% of average.

The Nuka Glacier SNOTEL site has 44 inches of snow depth with an estimated 11.0 inches of water content, currently is 41% of average. The site has recorded 39.5 inches of accumulated precipitation since October 1st, which is only 82% of average.

The expected volume flow from snowmelt runoff for the Kenai River at Cooper Landing for the April through July time frame is 860,000 acre-ft, 93 percent of average

* 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
Anchor River Divide	1650	2/28/11	36	8.4	35	10.9	40	10.3
Bertha Creek	950	2/26/11	43	11.9	46	14.3	51	14.7
Bridge Creek	1300	3/02/11	29	7.2	---	---	38	10.2
Cooper Lake	1200	2/28/11	45	11.2	40	11.5	50	14.8
Demonstration Forest	780	3/02/11	21	5.6	---	---	28	7.7
Eagle Lake	1400	3/02/11	30	6.6	---	---	38	10.7
Grandview	1100	3/01/11	66	18.4	81	26.0	70	21.7
Grouse Creek Divide	700	2/28/11	41	11.6	44	12.5	55	16.7
Jean Lake	620	2/28/11	18	5.0	14	3.1	17	3.8
Kachemak Creek	1660	2/28/11	34	9.5*	46	15.6*	48	12.8
Kenai Moose Pens	300	2/28/11	20	4.5	9	1.7	17	3.8
Kenai Summit	1390	2/26/11	44	10.5	45	13.8	44	12.3
McNeil Canyon	1320	2/28/11	27	7.8	28	9.5	36	8.9
Moose Pass	700	2/26/11	16	4.8	15	4.6	22	6.3
Nuka Glacier	1250	2/28/11	44	11.0*	75	21.7*	69	26.9
Port Graham	300	2/28/11	12	3.3*	21	5.8	16	4.9
Snug Harbor Road	500	2/28/11	16	4.4	18	5.3	20	5.1
Summit Creek	1400	2/28/11	37	8.9	37	10.2	38	10.5
Turnagain Pass	1880	2/28/11	84	20.8	98	29.2	92	29.2

*Estimate

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	860	93	987	733

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Anchor River Divide	1650	2/28/11	14.9	13.1	16.1	92
Cooper Lake	1200	2/28/11	21.1	20.8	20.7	102
Grandview	1100	3/01/11	39.5	35.5	33.1	119
Grouse Creek Divide	700	2/28/11	29.4	34.4	30.6	96
Kachemak Creek	1660	2/28/11	31.2	34.3	34.5	90
Kenai Moose Pens	300	2/28/11	6.5	4.9	7.3	89
McNeil Canyon	1320	2/28/11	13.6	10.7	13.6	100
Middle Fork Bradley**	2300	2/28/11	23.9	25.6	30.6	78
Nuka Glacier**	1250	2/28/11	39.5	40.2	48.1	82
Port Graham	300	2/28/11	33.4	38.4	35.1	95
Summit Creek	1400	2/28/11	14.0	14.3	14.3	98
Turnagain Pass	1880	2/28/11	34.5	35.0	34.0	102

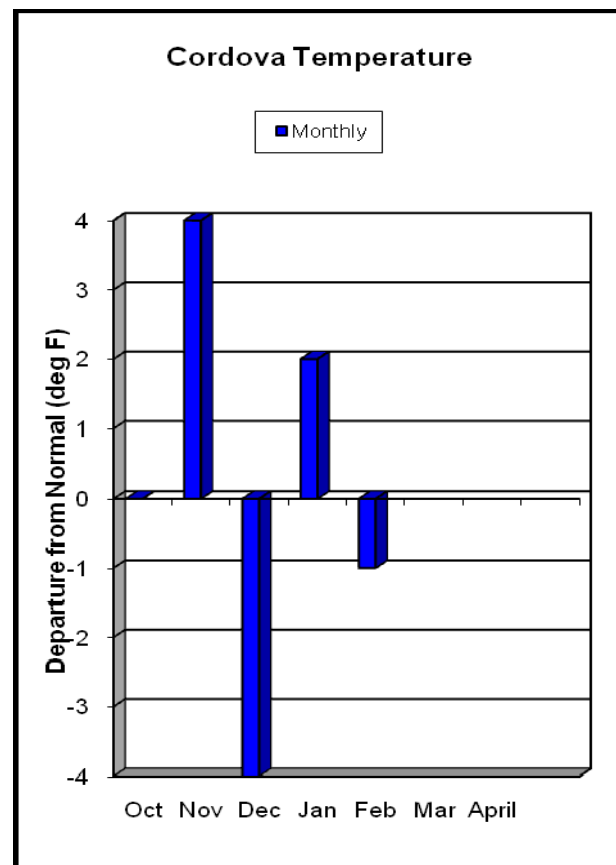
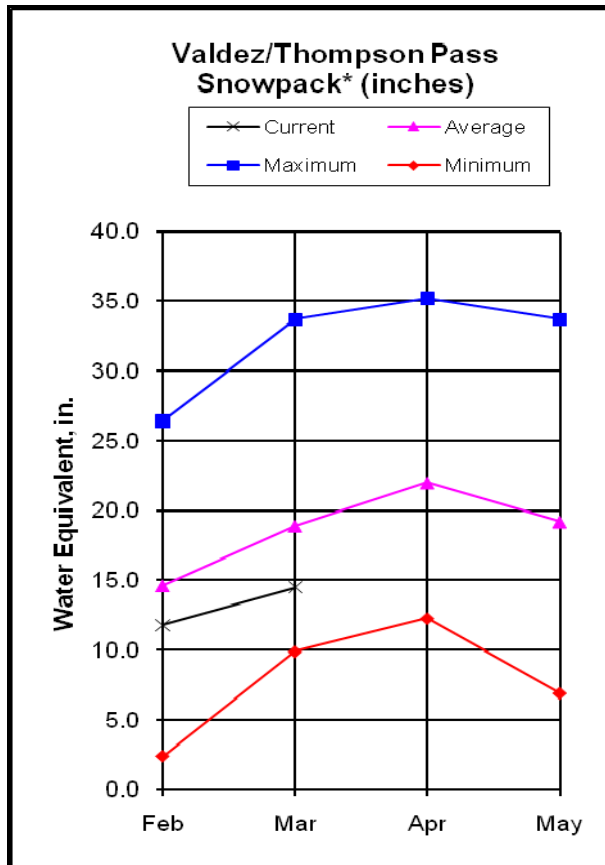
*Estimate

**Wyoming Shielded gauge

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Bradley Lake/Southern Kenai	3	55	53
Ninilchik Dome	2	78	74
Northern Kenai Flats	1	200	121
Northern Kenai Mountains	11	79	80

WESTERN GULF*



Snowcover:

The SNOTEL site at Mt. Eyak is near average, reporting 56 inches of snow depth and 18.1 inches of snow water content.

Sugarloaf Mountain SNOTEL site, perched above the Solomon Gulch Hydroelectric and the town of Valdez at 550 ft of elevation, reported 56 inches of snow depth and an estimated 18.3 inches of water content, 78% of average. The precipitation gauge has caught 33.6 inches since October 1st, which is 95% of average.

The Esther Island precipitation gauge has caught 75 inches of precipitation since October 1st 105% of average with 9.8 inches being caught in February.

The Strawberry Reef SNOTEL site, located east of Cordova, is 103% of average and has caught 41.9 inches of water since October 1st.

* 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	2/28/11	42	12.1	39	12.9	53	13.7
Grouse Creek Divide	700	2/28/11	41	11.6	44	12.5	55	16.7
Lowe River	600	3/01/11	44	10.5	55	14.9	53	15.1
Mt. Eyak	1405	2/28/11	56	18.1	61	24.6	67	19.6
Nuka Glacier	1250	2/28/11	44	11.0*	75	21.7*	69	26.9
Sugarloaf Mountain	550	2/28/11	57	17.3*	77	23.2	79	23.3
Tsaina River	1650	3/01/11	47	11.8	51	12.7	56	15.7
Upper Tsaina River	1750	2/28/11	61	13.0	64	16.2	64	18.5
Valdez	50	3/01/11	39	8.8	46	13.8	51	15.5
Worthington Glacier	2100	3/01/11	67	20.3	71	21.8	68	21.6

*Estimate

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Esther Island	50	2/28/11	75.0	64.9	71.5	105
Grouse Creek Divide	700	2/28/11	29.4	34.4	30.6	96
Mt. Eyak	1405	2/28/11	59.8	49.0	58.9	102
Nuka Glacier**	1250	2/28/11	39.5	38.2	48.1	82
Port San Juan	50	2/28/11	65.5	69.6	66.0	99
Seal Island	20	No Data		35.7	35.3	---
Strawberry Reef	50	2/28/11	41.9	31.5	40.8	103
Sugarloaf Mountain	550	2/28/11	33.6	30.6	35.5	95
Tatitlek	50	2/28/11	38.6	34.1	33.6	115
Upper Tsaina River	1750	2/26/11	16.9	14.5	23.4	72

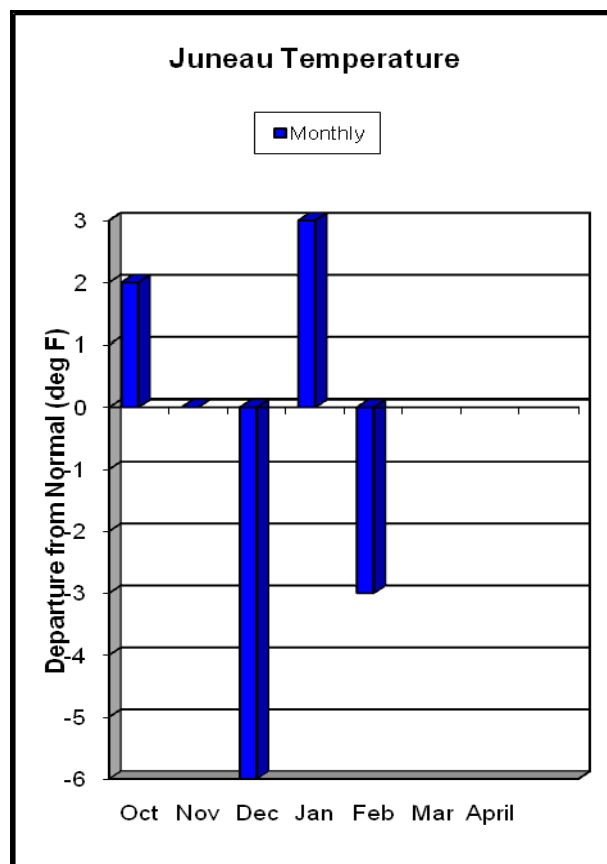
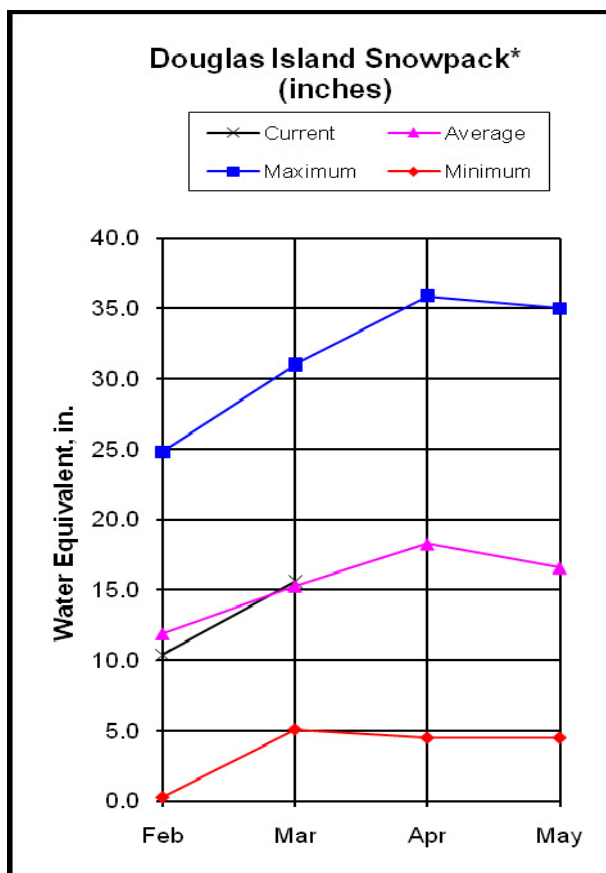
**Wyoming Shielded Gauge

*Estimate

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Lowe River (Valdez)	5	77	80
Eyak Lake	1	72	90

Southeast



Snowcover:

Southeast Alaska is having an average snow pack year with the exception of the Snettisham/Long Lake Hydro project which is 68% of average and the area around Skagway which is 76 percent of average.

The Long Lake SNOTEL site is reporting 76 inches of snow and 25.3 inches of water content, which is 74% of average.

The two Petersburg snow courses are 103% of average water content, up 3% from last month. The three Douglas Island snow courses are 102 percent of average up 15% water content from last month.

The Institute Creek snow course in Wrangle has 52 inches of snow depth with 18.0 inches of water content.

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	2/28/11	79	25.5	53	23.1	70	23.9
Eagle Crest	1200	2/28/11	57	17.7	30	12.1	48	16.1
Fish Creek	500	2/28/11	13	3.6	0	0.0	20	6.0
Institute Creek	1350	3/02/11	52	18.0	---	---	---	---
Long Lake	820	2/28/11	76	25.3	74	26.7	92	34.1
Moore Creek Bridge	2250	3/03/11	50	13.0	60	19.0	62	21.3
Petersburg Reservoir	550	2/27/11	33	8.3	0	0.0	18	5.8
Petersburg Ridge	1650	2/28/11	64	20.1	45	18.6	65	21.8
Rainbow Falls	500	3/01/11	11	3.1	---	---	---	---
Speel River	280	2/27/11	61	16.4	46	17.0	75	26.8
West Creek	470	3/02/11	18	4.3	38	9.6	---	---

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	34	103	43	25

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Long Lake	820	2/28/11	87.1	66.3	85.9	101
Moore Creek Bridge	2250	3/03/11	26.3	22.6	23.9	110
Snettisham	25	2/28/11	92.9	67.6	95.2	98
Swan Lake	50	No Report			77.8	

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Douglas Island	3	133	102
Petersburg	2	153	103
Skagway	2	60	76
Snettisham	2	94	68

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**

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Mat-Su Field Office

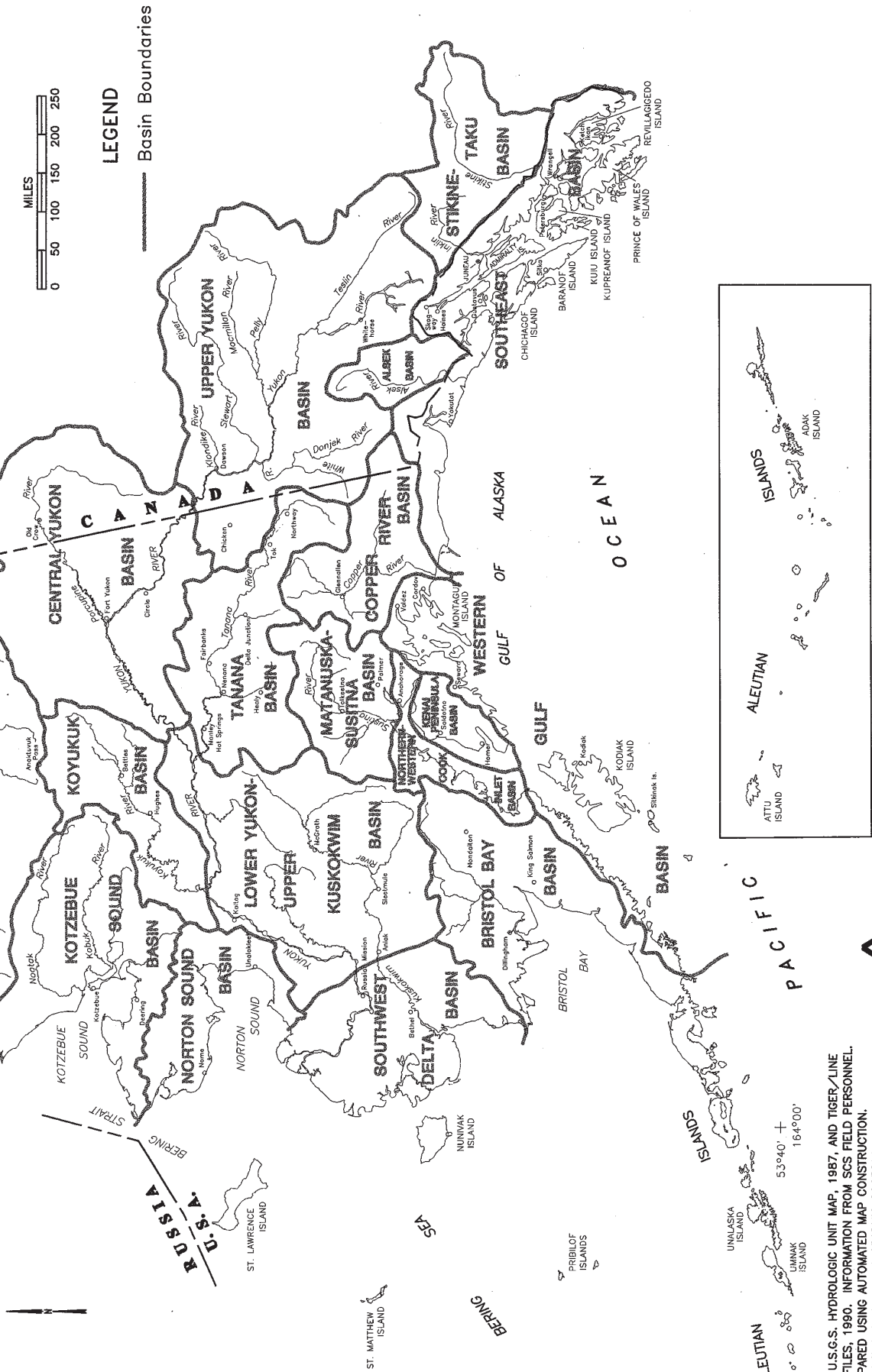
District Conservationist, Keith Griswold

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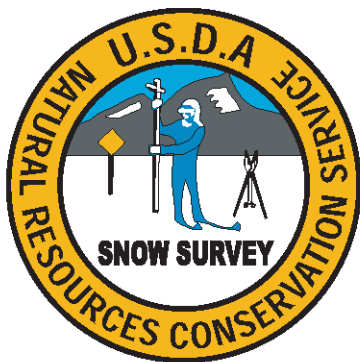
Facsimile: (907) 373-7192

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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.



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Alaska Snow Survey Report

Natural Resources Conservation Service
Anchorage, AK

