

Alaska Snow Survey Report



April 1, 2012

The USDA Natural Resources Conservation Service cooperates with the following organizations in snow survey work:

Federal

U.S. Department of Agriculture - U.S. Forest Service
 Chugach National Forest
 Tongass National Forest
U.S. Department of Commerce
 NOAA, Alaska Pacific RFC Climate
 Monitoring and Diagnostics Laboratory
U.S. Department of Defense
 U.S. Army Corps of Engineers
 U.S. Army Cold Regions Research and
 Engineers Laboratory
U.S. Department of Interior
 Bureau of Land Management
 U.S. Geological Survey
 U. S. Fish and Wildlife Service
 National Park Service

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
Prince William Sound Science Center

State of Alaska

Alaska Department of Fish and Game
Alaska Department of Transportation and
Public Facilities
Alaska 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 and Forestry
 Experiment Station
 Geophysical Institute
 Water and Environment Research
 Reindeer Research Program
 Institute of Arctic Biology LTER

Alaska Public Schools

Mantanuska-Susitna Borough School
District

Canada

Ministry of the Environment
 British Columbia
Department of the Environment
 Government of the Yukon

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Alaska Snow Survey

April 1, 2012

Issued by:

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

Released by:

Robert Jones
State Conservationist
Natural Resources Conservation Service
Palmer, Alaska

Published by:

Rick McClure, Hydrologist
Daniel Fisher, Hydrologist
Dan Kenney, Hydrologic Technician
Snow, Water and Climate Staff
Natural Resources Conservation Service
Anchorage, Alaska

TABLE OF CONTENTS

State General Overview.....	3
Streamflow Forecast.....	4
How Forecasts are Made.....	5
Basin Conditions and Data	
Upper Yukon Basin.....	6, 7
Central Yukon Basin.....	8, 9
Tanana Basin	10, 11
Western Interior Basins	12, 13
Arctic and Kotzebue Basin.....	14, 15
Norton Sound, Southwest, and Bristol Bay.....	16, 17
Copper Basin.....	18, 19
Matanuska - Susitna Basins	20, 21
Northern Cook Inlet	22, 23
Kenai Peninsula.	24, 25
Western Gulf.....	26, 27
Southeast	28, 29
Telephone Numbers and other contact information	30

GENERAL OVERVIEW

Snowpack

There are 13 snow courses reporting record high water contents in Alaska and the Yukon Territories for April 1st. In Alaska the records begin in the Anchorage Bowl and extend to Southeast Alaska along the Gulf coast. Three of the 5 Arctic Valley snow courses set new records for April 1st, they vary for 176 to 233 percent of average. The previous record high year was 1995 with the records beginning in 1964. The other 3 record high snow water contents are; Anchorage Hillside SNOTEL site, Moraine SNOTEL site and Portage Valley snow course. In the Western Gulf region there are 3 more record high snow water contents; Worthington Glacier, Lowe River and Mt Eyak. The Worthington Glacier snow course has 98 inches of snow depth with 40.3 inches of water content. The previous record occurred in 1987 with 98 inches of snow depth and 39.1 inches of water content, the record began in 1958. The Lowe River snow course has 74 inches of depth with 24.8 inches of water content, the previous high, in 1980, was 66 inches with 23.4 inches of water content. The record began in 1972. The SNOTEL site at Mt. Eyak is a record, reporting 115 inches of snow depth an estimated 50.5 inches of snow water content, 209 percent of average. This is a record with a short history, observations began in 2005.

For the Southeast region, two of the three Douglas Island snow courses and Petersburg Ridge have record high snow water contents. The Eagle Crest snow course has 116 inches of snow depth with 43.6 inches of water content, the previous record being in 2007 with 39.7 inches of water content; The Cropley Lake snow course has 148 inches of snow depth with 58.6 inches of water content, the previous record high was in 2007 with 48.4 inches of water content. The records began in 1977. Petersburg Ridge has a record high water content of 63.7 with 2007 having the previous record high water content of 58.8 inches.

In the Yukon Territories, the Log Cabin snow course near White Pass has 24.2 inches of snow water content with the previous record being 23.5, which occurred in 1992. This record began in 1958.

Precipitation

Above average precipitation was recorded at 4 locations for the month of March: these were Bethel, King Salmon, Fairbanks and Gulkana. Fairbanks was 191 percent of average, almost twice normal. The rest of the NWS reporting stations were less than average.

Anchorage Hillside has received 1.3 inches of precipitation in March, 21.9 since October 1st, 166 percent of normal. In Prince William Sound, Mt. Eyak above Cordova received 8.8 inches and 81.8 since October 1st, 121 percent of average. For Southeast Alaska, the Long Lake SNOTEL site has received 9.1 inches of precipitation in March, 104.9 since October 1st, 108 percent of normal.

Temperature

In contrast to February where most portions of the state had above average temperatures, the temperatures for March were below average for all stations that reported ranging from 0 deg F at Juneau (average/normal) and 1 deg F below normal at Fort Yukon to 11 deg F below normal at Bethel. Anchorage was 4 deg F below normal and Fairbanks was 6 deg F below normal.

STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

FORECAST POINT*	Percent of Ave. Flow	Period
Yukon River at Eagle	117	April - July
Porcupine Ricer near International Boundary	103	April - July
Yukon River near Stevens Village	111	April - July
Tanana River at Fairbanks	114	April - July
Tanana River at Nenana.....	108	April - July
Little Chena River near Fairbanks	105	April - July
Chena River near Two Rivers.....	107	April - July
Salcha near Salchaket.....	102	April - July
Sagvanirktok River near Pump Station 3	102	April - July
Kuparuk River near Deadhorse	104	April - July
Kuskokwim River at Crooked Creek	124	April - June
Gulkana River at Sourdough	122	April - July
Little Susitna River near Palmer	121	April - July
Talkeetna River near Talkeetna.....	117	April - July
Ship Creek near Anchorage	138	April - July
Kenai River at Cooper Landing.....	122	April - July
Gold Creek near Juneau.....	152	April - July

SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

FORECAST POINT	INDEX	Index Key:
Koyukuk River at Hughes	+1.3	
MF Koyukuk R near Wiseman	+1.3	
Slate Creek at Coldfoot.....	+1.5	
Beaver Creek above Victoria Creek.....	+0.8	-2 to -3 much below average snowmelt runoff
Birch Creek below South Fork	-1.0	
Caribou Creek at Chatanika	+0.2	
Susitna River near Gold Creek	+2.0	-1 to -2 below average snowmelt runoff
Chulitna River near Talkeetna	-1.3	
Deshka River at mouth near Willow	0.0	
Montana Creek at Parks Highway	+0.5	-1 to +1 average snowmelt runoff
Willow Creek near Willow	+1.7	
Skwentna River at Skwentna.....	+0.2	
Chuitna River near Tyonek	-0.2	+1 to +2 above average snowmelt runoff
Campbell Creek near Spenard	+3.0	
Indian Creek at Indian	+1.0	
Bird Creek at Bird Creek.....	+1.0	
Glacier Creek nr Girdwood	+3.0	+2 to +3 much above average snowmelt runoff
Six Mile Creek near Hope.....	+2.4	
Resurrection Creek near Hope	+2.5	
Grouse Ck at Grouse Lake Outlet nr Seward	+2.5	
Anchor River near Anchor Point	+1.5	
Deep Creek near Ninilchik	+2.0	
Ninilchik River near Ninilchik.....	+1.9	
Fritz Creek near Homer	+2.5	
Skagway River at Skagway	+3.0	
Municipal Watershed C nr Petersburg	+3.0	

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

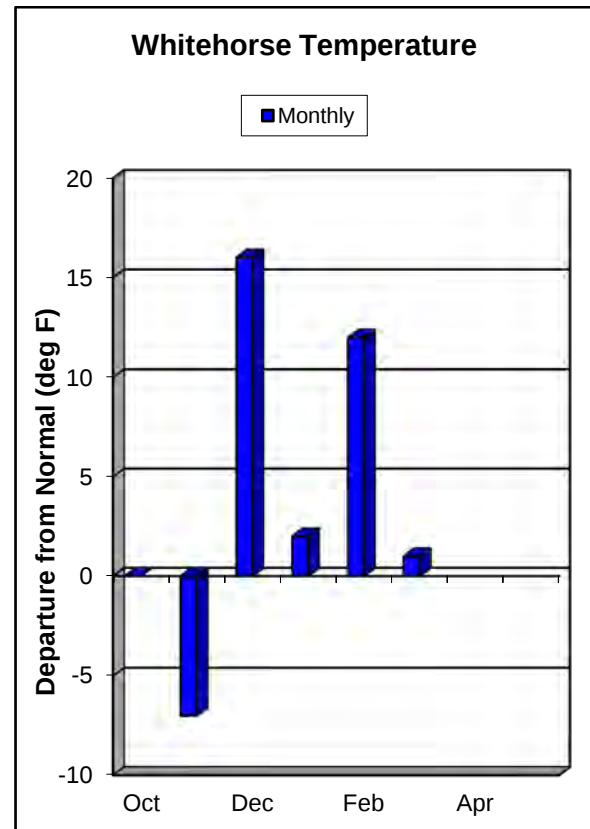
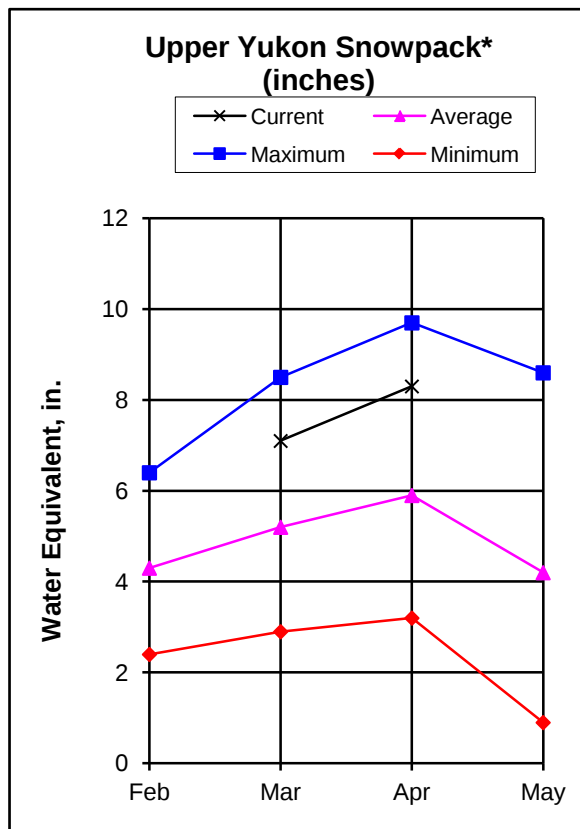
HOW FORECASTS ARE MADE

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 Upper Yukon basin snowpack continues to be well above average varying from 126 to 138 percent of normal. There is 1 snow course with record snow water content for April 1st, it is in the area above Whitehorse/Teslin. The Log Cabin snow course near White Pass has 24.0 inches of snow water content while the previous record was 23.5 which occurred in 1992. Two snow courses have the 2nd highest water content on record: Meadow Creek snow course has 15.4 inches of water content while the record is 16.3 inches, which occurred in 2008 and Mt. McIntyre B snow course near Whitehorse has 8.9 inches of water content, 9.5 inches was measured in 2011. This area's 9 snow courses average 138 percent of normal. The Dawson and Stewart/Pelly regions are in the upper 120 percent of normal range while the 8 snow courses in White River basin are 138 percent of normal.

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

Upper Yukon Basin

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
					(inches)			
Atlin	2395	3/31/12	19	4.4	---	---	21	4.9
Beaver Creek	2150	3/27/12	23	4.6	26	4.6	17	3.3
Burns Lake	3650	3/29/12	41	10.2	39	9.1	37	8.4
Burwash Airstrip	2660	3/28/12	11	2.5	15	2.7	9	1.7
Calumet	4300	3/26/12	39	7.1	33	5.8	36	7.6
Casino Creek	3490	3/26/12	32	7.2	27	5.9	26	4.9
Chair Mountain	3500	3/27/12	22	4.2	26	4.7	19	3.7
Duke River	4300	No Report			---	---	23	4.1
Edwards Lake	2720	3/28/12	37	8.5	34	7.4	30	6.7
Finlayson Airstrip	3240	3/29/12	17	4.3	21	4.5	23	4.8
Fuller Lake	3690	3/28/12	41	9.6	35	7.8*	34	7.9
Grizzly Creek	3200	3/29/12	36	9.1	23	5.5	32	6.9
Hooley River	3400	3/29/12	33	8.2	30	5.8	24	5.2
Jordan Lake	3050	3/29/12	30	6.0	19	3.5	24	5.2
King Solomon Dome	3540	3/27/12	37	7.8	31	7.0	29	6.0
Log Cabin (B.C.)	2900	3/26/12	65	24.0	9	2.8	17	3.7
MacIntosh	3805	3/26/12	25	4.9	46	14.4	49	14.6
Mayo Airport	1770	3/27/12	23	5.7	27	6.3	21	3.8
Meadow Creek	4050	3/29/12	52	15.4	45	11.3	42	10.4
Midnight Dome	2805	3/27/12	35	7.2	31	7.7	28	5.8
Montana Mountain	3350	3/26/12	32	6.9	32	8.0	25	5.5
Morley Lake	2700	3/26/12	30	6.8	24	5.3	25	5.9
Mount Nansen	3350	3/26/12	25	4.4	25	6.2	17	3.0
Mt. Berdoe	3400	3/26/12	31	6.5	30	7.6	22	4.2
Mt. McIntyre B	3600	3/26/12	37	8.9	36	9.5	28	5.9
Pelly Farm	1550	3/27/12	24	5.2	18	3.2	15	3.0
Plata Airstrip	2720	3/28/12	41	10.3	35	8.2	33	7.5
Rackla Lake	3410	3/28/12	41	9.9	26	8.7	37	8.2
Rose Creek	3550	No Report			25	5.3	15	3.9
Russell Lake	3480	3/28/12	46	11.3	43	11.6*	37	8.9
Satasha Lake	3805	3/26/12	28	5.5	26	5.9	21	4.3
Tagish	3540	3/27/12	29	5.9	31	7.7	26	5.5
Twin Creeks	2950	3/28/12	37	9.3	32	6.8	32	7.3
White River	2700	No Report			---	---	16	3.0
Whitehorse Airport	2300	3/27/12	26	6.0	19	5.1	19	3.9
Williams Creek	3000	3/26/12	28	5.8	24	5.6	18	3.5
Withers Lake	3200	3/27/12	47	12.1	39	9.1	39	9.4
Estimate*								

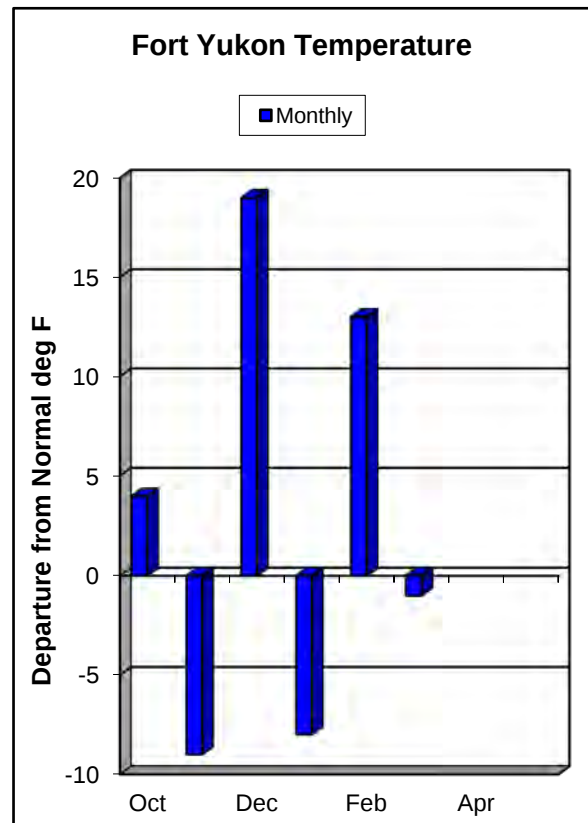
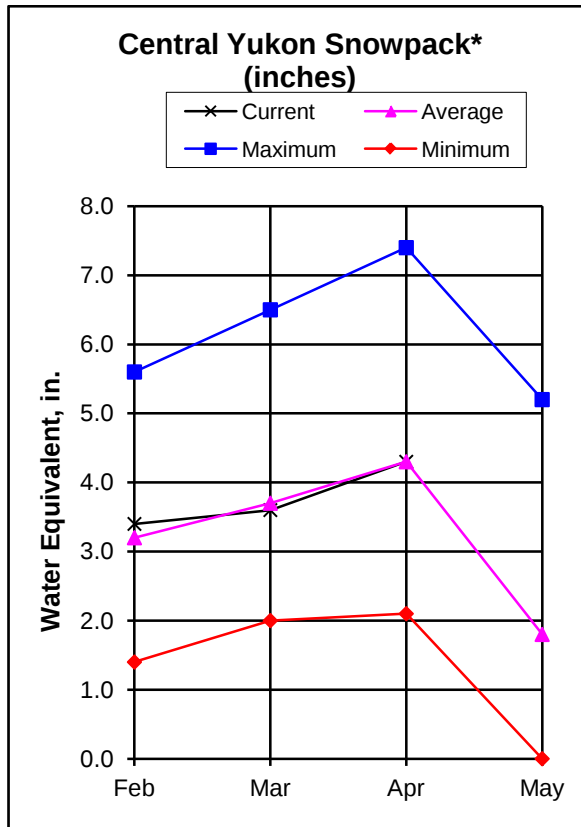
STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Yukon River At Eagle	Apr-Jul	34200	40000	117	45500	34500

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Above Whitehorse/ Tetlin	10	122	138
Dawson	3	119	129
Stewart/ Pelly	13	129	126
White River	8	91	138

CENTRAL YUKON BASIN*



Current Basin Conditions

The Fort Yukon snow course water content was measured a little high last month with this month's water content being 3.8 inches, right at the 30 year average. Last month's snow water content will be adjusted down to 3.7 inches.

The 4 snow courses in Yukon Flats are 109 percent of normal.

The Upper Nome Creek SNOTEL site has 25 inches of snow with an estimated 5.2 inches of water content, 67 percent of last year. The four snow courses measured in the White Mountains are 106 percent of average.

The Porcupine River basin in the Yukon Territories is 101 percent of average.

The Forty Mile snow courses are 90 percent of average.

The forecasted April through July volume flow for the Yukon River at Eagle is 40 million acre-ft, 117 percent of average.

The Snowmelt Runoff Index for the Birch Creek below South Fork is -1.0, much below average.

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

Central Yukon Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
American Creek	1050	3/27/12	21	4.0	New		---	---
Borealis	1330	3/30/12	27	5.9	30	6.3	28	5.2
Boundary	3300	4/01/12	20	4.5	21	5.0	25	5.3
Cathedral Creek	1800	3/29/12	26	5.9	29	7.2	--	--
Chicken Airstrip	1650	4/01/12	13	2.8	14	2.2	16	3.2
Circle Hot Springs	860	3/30/12	20	4.4	16	2.8*	26	4.5
Coal Creek	1000	3/29/12	20	3.9	21	4.3	---	---
Copper Creek	2000	3/29/12	15	3.0	17	3.7	---	---
Crescent Creek	2600	3/29/12	22	4.3	12	2.6	---	---
Eagle Plains	2330	3/28/12	33	6.2	29	6.3*	32	7.0
Eagle River	1120	3/28/12	30	5.2	26	4.8	27	5.5
Fort Yukon	430	4/02/12	21	3.8	22	3.5*	20	3.8
Fossil	1400	3/30/12	27	5.9	30	5.8	28	5.7
Graphite Lake	600	No Report			---	---	---	--
Hess Creek	1000	4/02/12	20	7.0	27	5.3	26	5.4
Lost Chicken Hill	2100	4/01/12	15	3.1	17	3.1	---	---
Lower Beaver Creek	400	3/30/12	35	7.0	---	---	---	---
Mission Creek	900	3/27/12	16	2.8	---	---	18	4.1
Mt. Fairplay	3100	4/01/12	20	4.4	18	4.7	20	4.3
Old Crow	980	3/31/12	26	5.2	25	6.0	25	4.6
Riff's Ridge	2130	3/29/12	34	6.5	32	6.3	29	5.7
Seven Mile	600	4/01/12	28	6.1	26	5.0	26	5.2
Stack Pup Creek	1620	3/30/12	20	3.8	22	3.0	25	4.4
Step Mountain	2850	3/29/12	30	7.0	27	6.0	---	---
Thirty Mile	1350	3/30/12	31	7.1	28	5.7	37	8.1
Three Fingers	3350	3/29/12	28	6.3	27	5.7	---	---
Upper Nome Creek	2650	4/01/12	25	5.2*	30	7.8*	---	---
Vunzik Lake	500	3/30/12	22	4.0	---	---	---	---
Windy Gap	1900	3/30/12	30	7.0	36	8.9*	31	5.7
Wolf	1200	3/30/12	26	6.2	30	6.3	27	4.8

estimate *

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Porcupine River near International Boundary	Apr-Jul	5640	5800	103	8090	3820
Yukon River near Stevens Village	Apr-Jul	48200	53500	111	59500	47500

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1st

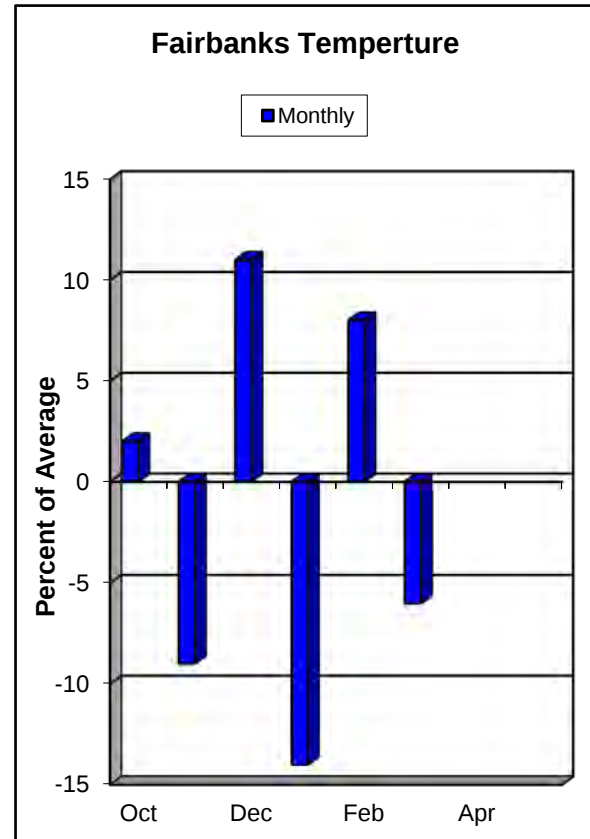
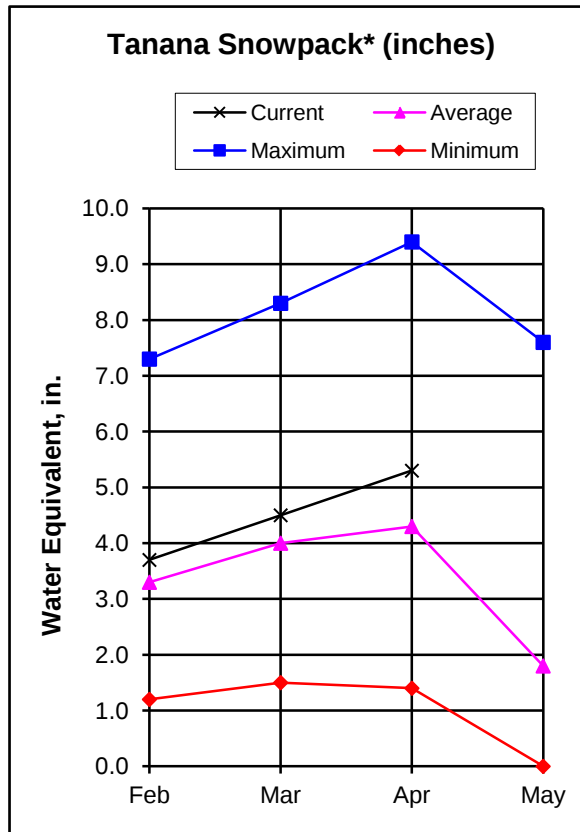
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Atigun Pass**	4800	3/31/12	6.4	6.1	8.1	79
Chandalar Shelf**	3300	3/31/12	5.0	4.9	5.3	94
Eagle Summit	3650	3/28/12	4.8	4.0	5.9	81
Fort Yukon	430	4/02/12	3.4	3.5	4.2	81
Upper Nome Creek	2650	4/01/12	6.7	8.2	6.8	98

**Wyoming shielded gauge

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Forty Mile	4	99	90
Porcupine (Y.T.)	4	95	101
White Mountains	6	103	106
Yukon Flats	6	109	109

TANANA BASIN*



Current Basin Conditions

Most snow courses received average or above average snow in March which has raised the basin's water content to average or above average for April 1st.

In the Upper Tanana Valley, the Tok snow course is 133 percent of average snow water content and the Beaver Creek snow course in the Yukon is 139 percent of average. In contrast the Chisana SNOTEL site is 97 percent of average.

For the mid Tanana Valley/Delta Junction area, the Fielding Lake snow course has 50 inches of snow depth with 13.4 inches of water content, 112 percent of average. Both Fort Greely and the Granite Creek snow courses are 131 percent of average snow water content. The Chena Basin has moved up to 100 percent of average and the Chatanika Basin has moved up to 107 percent of average snow water content. The Lower Tanana Valley has moved up to 106 percent of average.

South of Fairbanks, on the north side of the Alaska Range the Gold King snow course measured 22 inches of snow depth with 4.8 inches of water content, 117 percent of average. The Kantishna SNOTEL site has 23 inches of snow depth with 5.1 inches of water content, 109 percent of average. Kantishna's precipitation gauge, since October 1st has caught 5.1 inches, 89 percent of average.

The Bonanza Creek snow course, just west of Fairbanks in the Tanana Hills, has 28 inches of snow depth with 6.8 inches of water content, 136 percent of average.

The forecasted April through July volume flow for the Chena River near Two River is 290 thousand acre-feet, 107 percent of average.

*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		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Bonanza Creek	1150	3/30/12	28	6.8	22	4.5	23	5.0
Caribou Creek	1250	4/03/12	22	5.6	25	6.0*	23	5.0
Caribou Mine	1150	3/31/12	27	5.9	26	5.1	27	5.6
Caribou Snow Pillow	900	4/03/12	24	5.2	25	5.4*	23	4.8
Chisana	3320	3/31/12	18	3.6	19	4.2	22	3.7
Cleary Summit	2230	3/30/12	32	7.3	32	6.3	31	6.7
Colorado Creek	700	3/29/12	26	5.1	23	4.7	23	4.7
Edgar Creek	2400	No Survey	---	---	---	---	28	7.0
Fairbanks FO	450	3/28/12	22	4.6	21	3.8	23	4.5
Faith Creek	1900	3/30/12	26	4.9	28	5.4	28	4.9
Fielding Lake	3000	4/02/12	50	13.4	33	6.0	46	12.0
Fort Greely	1500	3/30/12	22	4.7	16	2.9	17	3.6
French Creek	1800	3/30/12	30	6.8	25	4.7	27	6.4
Gerstle River	1200	3/30/12	18	3.5	15	2.5	18	3.4
Gold King	1700	3/28/12	22	4.8	---	---	21	4.3
Granite Creek	1240	4/01/12	24	5.1	14	2.6	18	3.8
Jatahmund Lake	2180	3/29/12	19	3.4	19	4.4	18	3.2
Kantishna	1550	3/29/12	23	5.1	24	4.8*	30	5.7
Lake Minchumina	730	3/29/12	22	4.8	20	3.7*	21	4.4
Little Chena Bottom	1460	4/01/12	22	4.4	22	3.8	21	4.3
Little Chena Ridge	2000	4/01/12	20	4.1	21	4.2	28	5.9
Lost Creek	3030	4/02/12	18	4.2	15	2.7*	21	4.2
Mentasta Pass	2430	4/02/12	32	7.8	23	5.0	28	6.7
Monument Creek	1850	3/31/12	23	4.6	25	4.1	25	5.2
Mt. Ryan	2800	3/31/12	28	5.7	29	5.6	31	6.8
Munson Ridge	3100	3/31/12	36	8.9*	37	8.1	38	9.1
Paradise Hill	2200	3/29/12	17	3.3	23	4.9	18	3.6
Ptarmigan Airstrip	2400	3/31/12	24	5.7	---	---	18	3.7
Ptarmigan Creek	2230	3/30/12	24	4.7	24	4.4	19	3.8
Rock Creek Bottom	2250	3/30/12	24	5.1	21	4.0	22	4.3
Rock Creek Ridge	2600	3/30/12	26	5.9	---	---	26	5.3
Shaw Creek Flats	980	3/30/12	15	3.2	15	2.7	16	3.4
Teuchet Creek	1640	3/31/12	20	4.1	22	3.9*	23	4.4
Tok Junction	1650	4/02/12	25	4.8	21	3.4	19	3.6
Upper Chena	3000	4/01/12	28	6.3	34	7.4	33	7.8
Upper Chena Pillow	2850	4/01/11	29	7.7	37	8.6	32	7.5
Upper Wood River	2990	3/31/12	30	7.0	---	---	28	5.7
Estimate *								

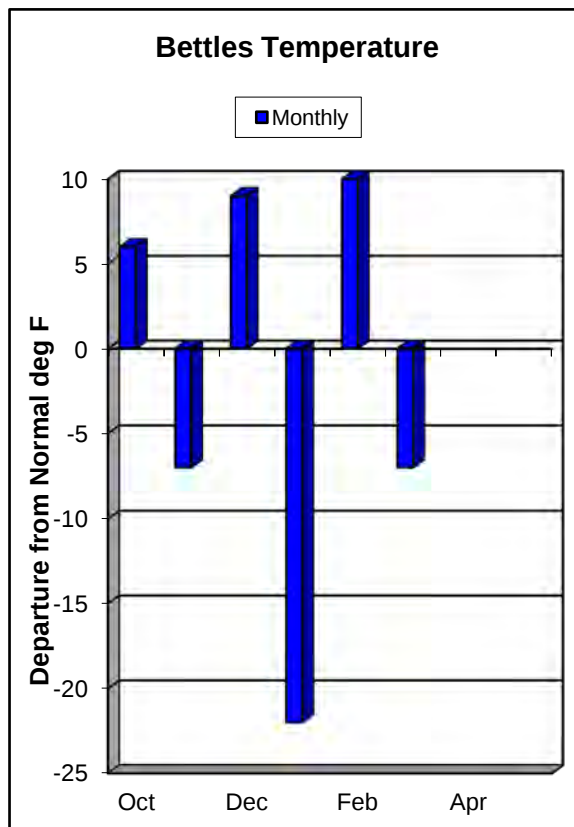
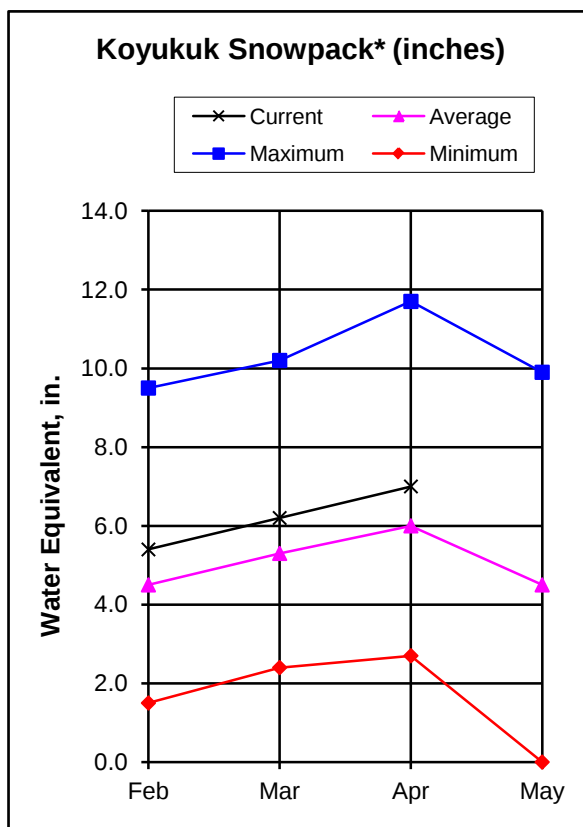
STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Tanana River at Fairbanks	Apr-Jul	7100	8100	114	9060	7140
Little Chena R. near Fairbanks	Apr-Jul	78.0	82	105	110	54
Chena River near Two Rivers	Apr-Jul	270	290	107	405	175
Salcha River near Salchaket	Apr-Jul	625	640	102	880	440
Tanana River at Nenana	Apr-Jul	9000	9700	108	10900	8510

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Chatanika	4	104	107
Chena Basin	11	105	100
Lower Tanana Valley	9	132	106
Mid Tanana Valley (Delta Junction)	6	163	112
Upper Tanana Valley (Tok)	8	103	113

WESTERN INTERIOR BASINS*



Current Basin Conditions

Koyukuk

The Bettles SNOTEL site has 37 inches of snow depth with 8.2 inches of water content, 119 percent of average. The precipitation gauge has received 8.3 inches since October 1st, 124 percent of average. The Coldfoot SNOTEL site has 31 inches of snow depth with 7.0 inches of water content, 100 percent of average. North of Coldfoot on the Dalton Highway, the Disaster Creek snow course has 26 inches of snow depth with 5.8 inches of water content, 135 percent of average.

The Lake Todatonten snow course has 31 inches of snow depth with 7.6 inches of water content, 138 percent of average. Near Galena, the Colville Bend snow course has 33 inches of snow depth with an estimated 7.6 inches of water content. Last year, Colville Bend had 31 inches of depth with 6.2 inches of water content.

Kuskokwim

The Purkeypile Mine snow course near the west side of McKinley National Park has 23 of snow and 6.0 inches of water content, 120 percent of normal. The Telaquana Lake snow course has 24 inches of snow depth with 5.2 inches of water content, 111 percent of average. The Kogruklu River snow course has 52 inches of snow depth with an estimated 12.5 inches of water content.

The expected volume flow for the Kuskokwim River at Crooked Creek for the April through June time frame is 13,000,000 acre-ft, 124 percent of average.

Lower Yukon

The snow courses in the Innoko Wildlife Refuge range have not been measured to date. The snow courses near Galena are 140 percent of last year.

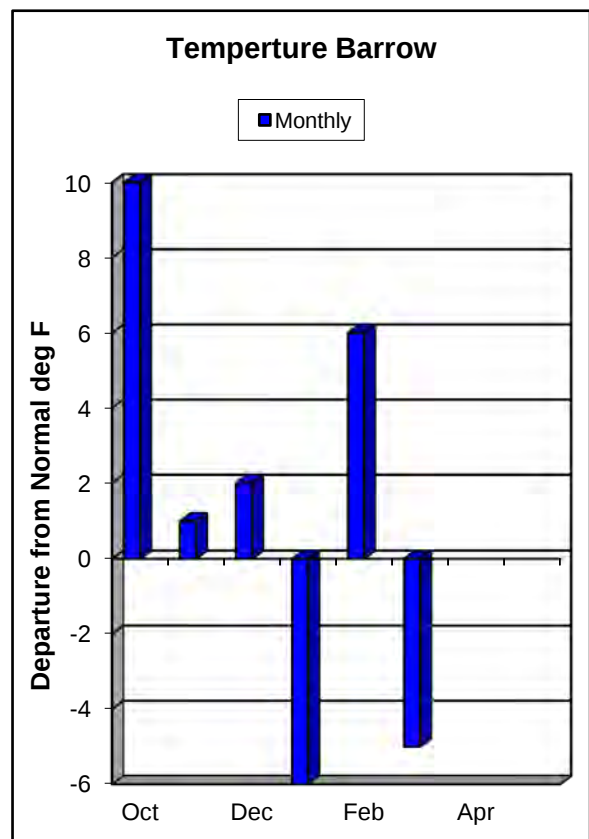
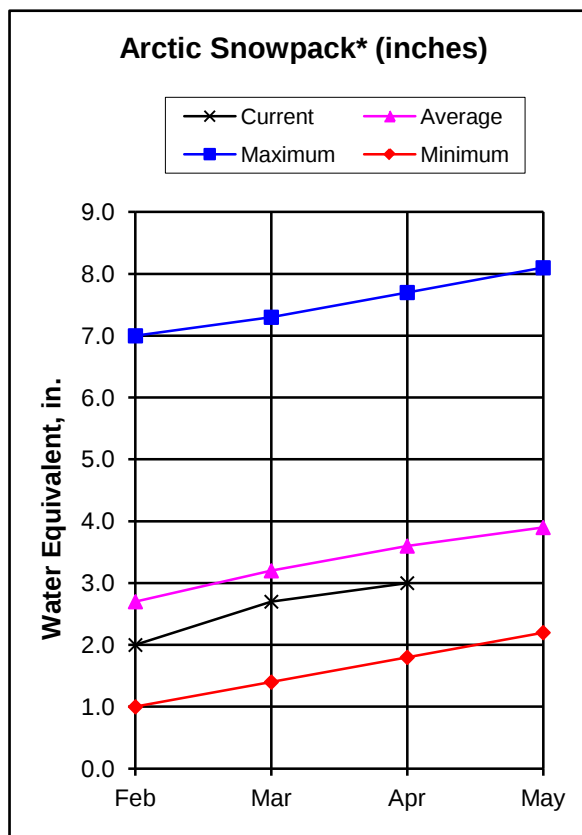
*For further information contact the Natural Resources Conservation Service in Anchorage.

Western Interior Basins

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
			(feet)		(inches)			
Koyukuk								
Bettles Field	640	3/29/12	37	8.2	30	6.8*	32	6.9
Bonanza Forks	1200	4/01/12	21	7.7	30	7.0*	27	5.6
Cloverleaf	170	4/02/12	33	7.8	32	6.5	---	---
Coldfoot	1040	4/01/12	31	7.0	26	5.5	31	6.9
Colville Bend	170	4/02/12	33	7.6	31	6.2	---	---
Disaster Creek	1550	4/02/12	26	5.8	21	4.1	23	4.4
Huggins Creek	290	4/02/12	33	7.8	30	6.2	---	---
JR Slough	160	4/02/12	36	8.4	34	6.8	---	---
Kaldoyeit	750	4/02/12	34	7.8	23	5.7	---	---
Kanuti-Chalatna	670	4/02/12	34	7.6	25	6.0	---	---
Kanuti-Kilolitna	550	4/02/12	23	5.5	22	5.5	--	---
Lake Todatonen	550	4/04/12	31	7.6	---	---	28	5.5
Minnkokut	580	4/02/12	40	8.7	37	8.0	---	--
Nolitna	560	4/02/12	30	6.7	22	5.2	---	---
Table Mountain	2200	4/02/12	22	5.5	21	4.0*	24	4.9
Taiholman	540	4/02/12	3	1.0	12	4.0	---	---
Treat Island	190	4/02/12	23	5.2	42	8.0	---	---
Kuskokwim								
Aniak Farm	80	No Report			17	3.7	---	---
Holitna River	257	No Report			21	5.1	---	---
Holokuk River	367	No Report			16	3.8	---	---
Johnny Slu	180	3/29/12	38	8.5	14	3.4	---	---
Kogrukluk River	193	3/29/12	52	12.5	29	6.3	---	---
Lake Minchumina	730	3/29/12	22	4.8	20	3.7*	21	4.4
Lower Aniak	164	3/29/12	35	8.5	20	4.2	---	---
McGrath	340	3/31/12	41*	9.7*	15	4.0*	30	6.5
Middle Kuskokwim	297	3/29/12	38	8.8	38	8.0	---	---
N. Fork Kuskokwim	512	3/29/12	35	8.3	33	7.0	---	---
Nixon Fork Kuskowim	508	No Report			29	6.4	---	---
Purkeypile Mine	2025	3/29/12	23	6.0	26	5.4	21	4.1
Telaquana Lake	1550	4/01/12	24	5.2	20	4.1	20	4.5
Upper Aniak	780	3/29/12	49	11.5	25	5.4	---	---
Upper Twin Lakes	2000	No Report			22	5.4	27	7.2
Lower Yukon								
Deer Creek	195	3/31/12	43	10.3	31	6.5	---	---
Grouch Creek	220	No Report			38	8.3	---	---
Holikachuk	100	3/31/12	40*	9.8*	36	8.8	---	---
Horsefly Creek	180	No Report			30	7.3	---	---
Innoko Inn	200	No Report			22	5.0	---	---
Little Mud River	855	No Report	27	6.1	20	4.2	---	---
Lower Nowitna River	205	3/31/12	24	5.4	24	5.0	---	---
Middle Innoko	150	No Report			39	9.0	---	---
Nine Mile Island	140	4/02/12	39	9.3	36	7.5	---	---
Pike Trap Lake	130	4/02/12	19	4.4	12	3.0	---	---
Squirrel Creek	150	4/02/12	38	8.8	27	5.5	---	---
Tozikaket	600	No Report			22	4.4	24	5.0
Upper Innoko	180	No Report			33	8.0	---	---
Wapoo Hills	220	No Report			43	10.2	---	---
Yankee Slough	100	No Report			33	8.1	---	---
Yetna River	120	3/31/12	34*	8.0*	28*	6.9*	---	---

ARCTIC AND KOTZEBUE SOUND*



Current Basin Conditions

Arctic

The Atigun Pass SNOTEL site has received 6.3 inches of precipitation since October 1st or 89 percent of average. It has 44 inches of snow on the ground.

The Imnaviat Creek SNOTEL site has recorded 2.5 inches of precipitation this water year which is 64% of average. It has 27 inches of snow on the ground. The Sagwon SNOTEL site has received 2.2 inches of precipitation since October 1st, 67 percent of average and has 16 inches of snow on the ground.

Barrow has 25 inches of snow on the ground.

Kotzebue

The Kelly Station SNOTEL site at the confluence of the Noatak River and Kelly River is reporting 17 inches of snow depth and 3.7 inches of water content.

The Kagarak Cabin snow survey site has 10 inches of snow with an estimated 2.5 inches of water content, this is one of three new sites established in this area by the Fish and Wildlife Service.

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

Arctic and Kotzebue Sound

SNOWPACK DATA

			THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
Snow Course	Elev.	Date	Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)				(inches)			
Arctic								
Umiat Airport	265	4/01/12	25	3.9*	22	4.1	---	---
Kotzebue Sound								
Kelly Station	300	4/01/12	17	3.7	39	8.0	---	---
Kagarak Cabin	50	4/02/12	10	2.5	New		---	---
Mauneluk River	360	4/02/12	1	0.3	New		---	---
Red Dog	950	No Report			---	---	---	---
Selawik Hot Springs	462	4/02/12	1	0.3	New		---	---

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	3/31/12	3.5	3.5	5.0	70
Atigun Pass	4800	4/01/12	6.4	6.1	8.1	79
Barrow	25	No Report			3.0	
Imnaviat Creek	3050	4/01/12	2.5	5.0	3.9	64
Prudhoe Bay	30	4/01/12	3.1	---	3.8	82
Sagwon	1000	4/01/12	2.2	3.7	3.3	67
Kotzebue Sound						
Kivalina	50	3/31/12	2.9	6.1	---	---
Red Dog**	950	3/31/12	2.8	6.2	6.3	44

** Wyoming Shielded Gauge

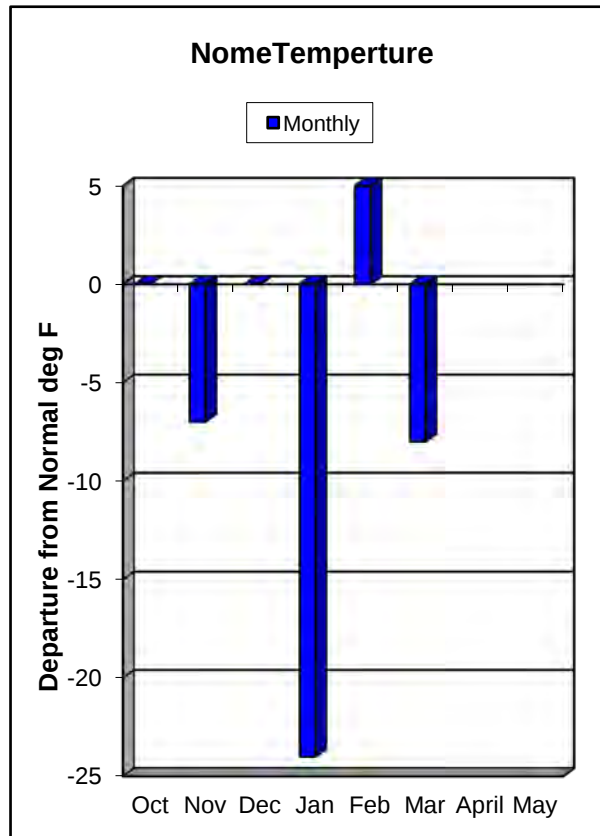
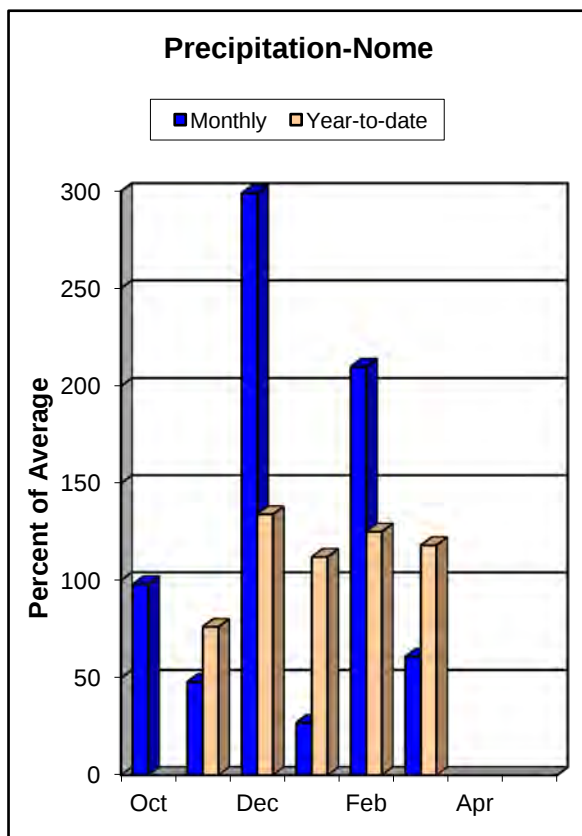
STREAMFLOW FORECASTS

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	700	102	830	570
Kuparuk River near Deadhorse	April - Jul	795	830	104	1080	580

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Arctic Coast	2	---	88
Dalton Highway	3	67	67

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*



Current Basin Conditions

Norton Sound

The Pargon Creek SNOTEL site, northeast of White Mountain has received 5.1 inches of precipitation since October 1st, 106 percent of normal. The Johnson Camp SNOTEL site, in the "Blow Hole" east of Nome has 31 inches of snow on the ground. The Seward Peninsula has been hammered with wind this winter, the tussocks are exposed with snow only in the river valleys where it has been drifted and trapped.

The new Independence Creek snow survey site has 6 inches with an estimated 1.5 inches of water content. This is one of six new sites established in this area by the Fish and Wildlife Service.

Southwest Delta

The Upper Aniak snow course has 49 inches of snow on the ground with an estimated 11.5 inches of water content.

Bristol Bay

This region has the most snow measured on the ground since 2004; Brooks Camp has 18 inches of snow depth with an estimated 6.0 inches of snow water content. The Three Forks snow course has 26 inches of snow depth with an estimated 7.8 inches of water content.

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

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*

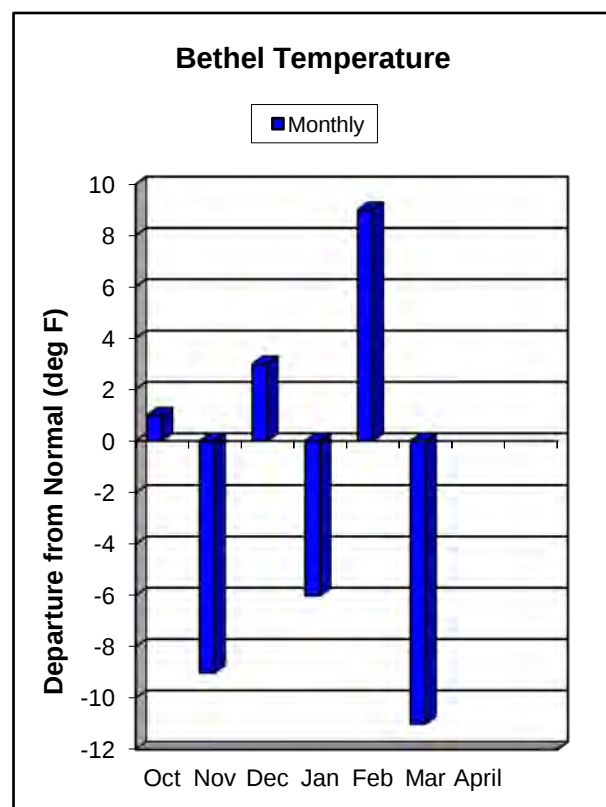
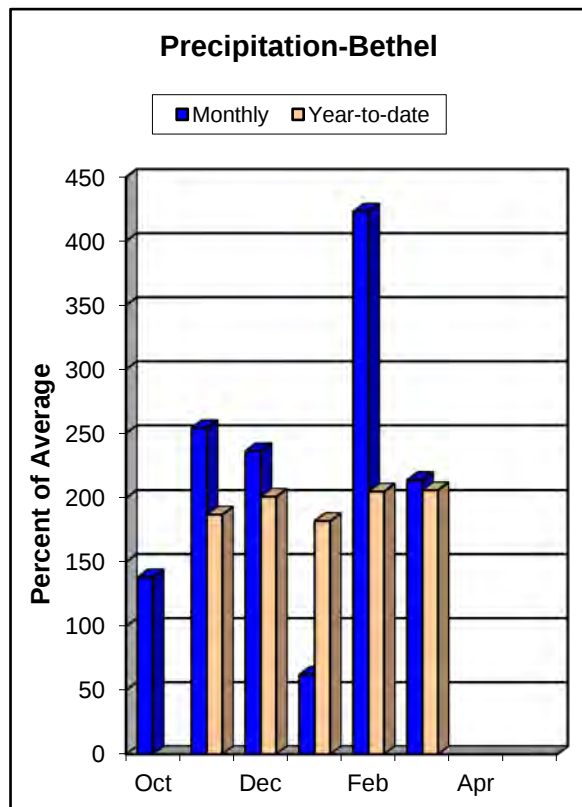
SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
			(feet)		(inches)			
Bristol Bay								
Brooks Camp	150	3/29/12	18	6.0	7	1.8	---	---
Fishtrap Lake	1800	No Survey			34	8.4	40	10.5
Port Alsworth	270	3/31/12	25	6.2	18	4.2	12	4.1
Three Forks	900	3/29/12	26	7.8	14	3.5	---	---
Upper Twin Lakes	2000	3/31/12	35*	8.8*	22	5.4	27	7.2
Norton Sound								
Akulik River	205	4/02/12	5	1.3*	New		---	---
Independence Creek	255	4/02/12	6	1.5*	New		---	---
Johnson's Camp	25	3/31/12	31	6.2*	25	5.0	---	---
Pargon Creek	100	No Report			20	4.0	---	---
Quartz Creek	655	4/02/12	5	1.3*	New		---	---
Rocky Point	500	No Report			22	4.4	---	---
Shaktoolik	20	4/02/12	3	1.0*	New		---	---
Upper Tag	1415	4/02/12	2	0.7*	New		---	---
Upper Ungalik	1290	4/02/12	5	1.3*	New		---	---
Estimate*								

PRECIPITATION DATA

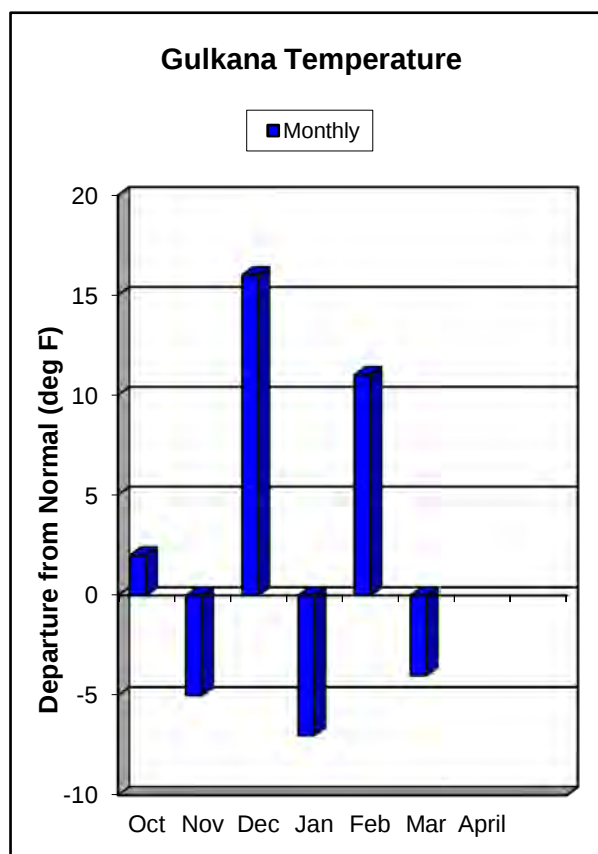
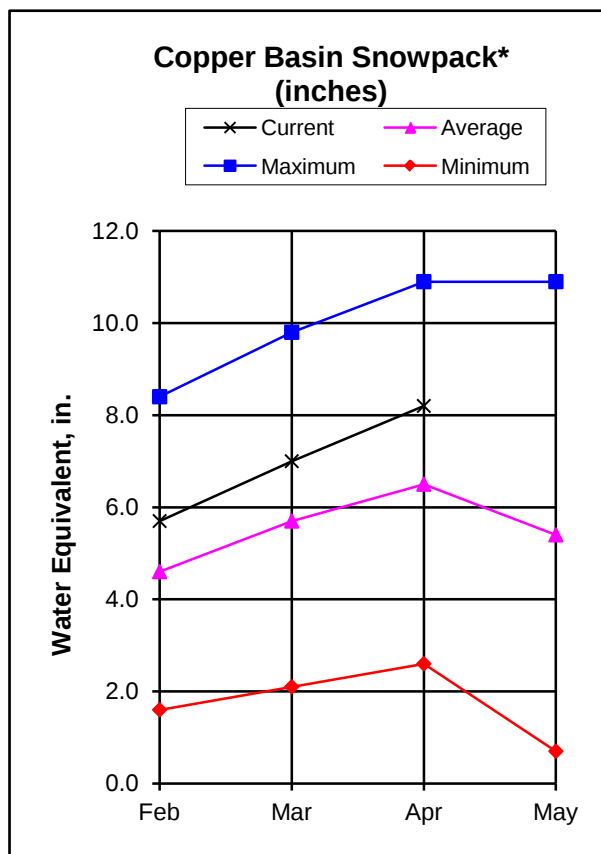
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Pargon Creek	100	3/31/12	5.1	5.8	4.7	108
Rocky Point	500	No Report		5.2	5.3	---



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

COPPER BASIN*



Current Basin Conditions

The snow water contents for the 5 regions of the basin are above average to much above average, 116 percent to 154 percent of average.

The six sites measured in Chugach Range are 137 percent of average, with Worthington Glacier snow course having a record snow water content measured for April 1st, 98 inches of snow depth with 40.3 inches of water content. The previous record occurred in 1987 and was 98 inches of snow depth with 39.1 inches of water content.

The 3 sites used to index the Copper Basin on the west side in the Talkeetna Mountains are 154 percent of average. This includes Sheep Mountain at 172 percent, Horsepasture Pass at 148 percent and Square Lake at 138 percent of average.

Basin Floor snow courses are 133 percent of average with the Lake Louise snow course having 30 inches of snow depth with 6.6 inches of water content, 143 percent of average.

The May Creek SNOTEL site has 24 inches of snow depth with 4.8 inches of water content, 96 percent of average.

The Alaska Range and the Wrangle Mountain snow courses are 121 and 116 percent of normal respectively.

The Gulkana River forecasted volume flow for the April through July time period is 122 percent of average, 580,000 acre-feet of water, an acre-ft being 326,000 gallons of water.

*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		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth (inches)	Water Content	Snow Depth	Water Content
Chistochina	1950	4/02/12	22	5.1	20	3.6	22	4.1
Chokosna	1550	4/03/12	23	5.2	24	5.0	22	3.9
Dadina Lake	2160	4/03/12	33	8.5	30	6.5	27	5.9
Haggard Creek	2540	4/02/12	35	7.5	29	5.4	29	6.3
Horsepasture Pass	4300	4/02/12	36	9.5	24	5.3	29	6.4
Kenny Lake School	1300	3/29/12	23	5.2	22	4.8	17	3.7
Lake Louise	2400	3/30/12	30	6.6	23	4.2	23	4.6
Little Nelchina	2650	3/30/12	30	7.9	24	4.7	25	5.3
Long Glacier	4820	3/28/12	33	7.5	21	4.6	---	---
May Creek	1610	3/31/12	24	4.8	25	4.4	23	5.0
Mentasta Pass	2430	4/02/12	32	7.8	23	5.0	28	6.7
Monsoon Lake	3100	4/02/12	30	8.5	22	4.5	28	6.4
Mt. Eyak	1405	3/31/12	115	50.5	68	24.0	75	24.2
Notch	2645	3/28/12	21	4.8	16	3.5	---	---
Paxson	2650	4/02/12	41	10.0	27	5.5*	32	7.8
Sanford River	2280	4/03/12	29	6.0	29	6.5	28	6.2
St. Anne Lake	1990	4/03/12	38	8.9	23	4.2	25	5.5
Tazlina	1225	3/29/12	22	4.8	24	5.2	19	4.2
Tebay Lake	1930	3/28/12	93	33.5	54	12.4	---	---
Tolsona Creek	2000	3/29/12	29	6.0	24	4.1	22	4.1
Tsaina River	1650	3/30/12	65	21.6	46	11.7	57	17.6
Twin Lakes	2400	4/03/12	36	8.2	26	5.0	28	6.4
Upper Tsaina River	1750	3/31/12	75	25.5	60	13.3	70	21.7
Worthington Glacier estimate*	2100	3/30/12	98	40.3	70	21.0*	72	24.9

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
May Creek	1610	4/01/12	6.0	5.7	5.7	105
Strawberry Reef	50	4/01/12	54.3	44.3	46.7	123
Upper Tsaina River	1750	3/30/12	25.5	18.0	26.7	96

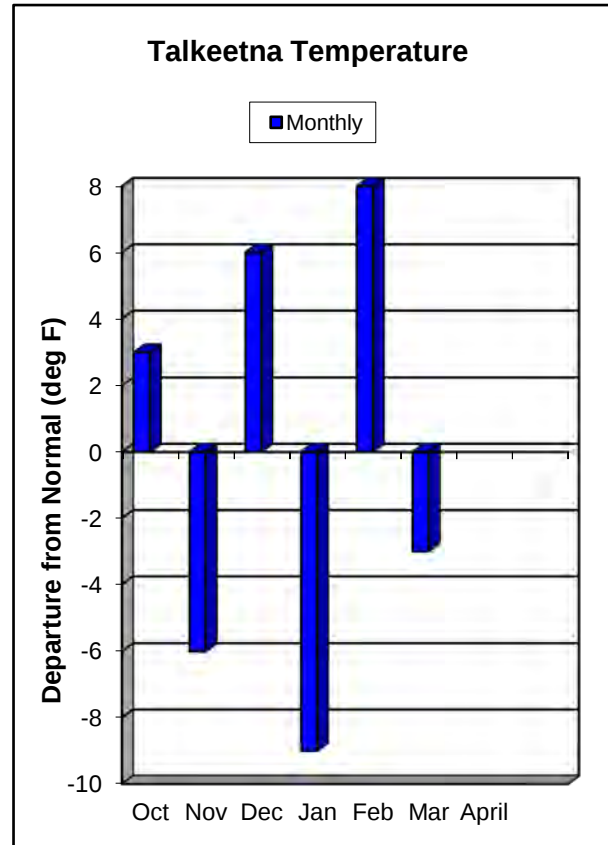
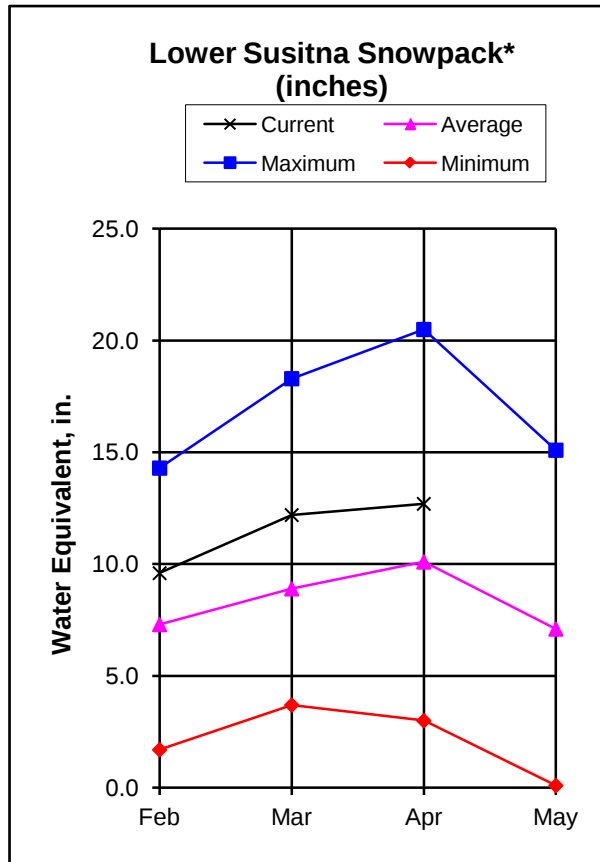
STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Gulkana River at Sourdough	Apr-Jul	475	580	122	730	430

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Alaska Range	4	192	121
Basin Floor	6	139	133
Chugach Range	6	191	137
Talkeetna Mountains	3	192	154
Wrangell Mountains	5	119	116

MATANUSKA - SUSITNA BASINS*



Current Basin Conditions

The Susitna Basin regions range from below average, 94 percent in the Peters Hills, to well above average, 124 percent of average in the Little Susitna basin and the Upper Susitna basin (this is the area which appears to be part of the Copper basin but flows into the Susitna River). On the north side of the Peters Hills, the Tokositna Valley SNOTEL site has 58 inches of snow depth with 16.3 inches of water content, 87 percent of average.

The Fishhook Basin snow course, above the A-Frame, at Hatcher Pass has 70 inches of snow depth with 24.2 inches of water content, 118 percent of average. The Sheep Mountain snow course has the highest percentage of snow water content in the basin with 172 percent of average. This is Sheep Mountain's 2nd highest water content measured with the record of 12.0 inches measured in 1980.

The Snowmelt Runoff Indexes for the Susitna Valley are as follows with +3 much above average and -3 much below average: Susitna River near Gold Creek, +2.0, Chulitna River near Talkeetna, -1.3, Deshka River at mouth near Willow, 0.0, Montana Creek at Parks Highway, +.5, Willow Creek near Willow, +1.7 and Skwentna River at Skwentna, +0.2.

The Little Susitna April through July volume flow forecast is 104,000 acre-ft, 121 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
	(feet)					(inches)		
Alexander Lake	160	3/28/12	51	15.2	42	12.0	44	12.0
Archangel Road	2200	4/02/12	57	18.4*	37	9.9	50.0	16.3
Bentalit Lodge	150	3/28/12	44	12.3	38	7.8	---	---
Blueberry Hill	1200	3/29/12	52	16.4	16	13.6	58	16.0
Chelatna Lake	1450	3/29/12	50*	14.0*	35	9.1	44	11.6
Clearwater Lake	2650	4/02/12	33	7.3	22	3.7	27	5.7
Curtis Lake	2850	No Report			22	4.2	---	---
Denali View	700	3/29/12	46	14.0	41	11.4	50	13.4
Dunkle Hills	2700	3/29/12	32	8.8	33	8.5	---	---
Dutch Hills	3100	3/29/12	69	25.0	45	13.5	80	27.5
E. Fork Chulitna	1800	3/29/12	54	14.0	42	10.7	54	14.0
Eldridge Glacier	3400	No Survey					---	---
Fishhook Basin	3300	4/02/12	70	24.2	46	12.1	64	20.5
Fog Lakes	2120	4/02/12	30	5.8	27	5.0	28	6.2
Halfway Slough	350	3/29/12	34	9.3	21	6.2	---	---
Independence Mine	3550	4/02/12	77	28.2	51	13.1	70	24.2
Independence Mine	3550	3/31/12	67	19.0	40	10.5	56	20.0
Lake Louise	2400	3/30/12	30	6.6	23	4.2	23	4.6
Little Susitna	1700	4/02/12	50	15.1	32	8.3*	43	13.3
Monahan Flat	2710	4/01/12	41	9.4	31	4.9*	35	8.1
Moose Creek Ranch	450	3/30/12	28	7.7	5	1.2	---	---
Nugget Bench	2010	3/29/12	45	14.5	31	9.0	55	15.5
Ramsdyke Creek	2220	3/29/12	68	22.5	45	13.0	69	22.0
Sheep Mountain	2900	3/30/12	37	10.3	23	4.8	26	6.0
Skwentna	160	3/28/12	48	14.5	44	11.8	42	11.6
Square Lake	2950	4/02/12	29	5.8	17	3.2	22	4.2
Susitna Valley High	375	4/01/12	38	11.2	26	6.2	39	10.2
Talkeetna	350	3/29/12	31	9.6	24	6.3	34	8.7
Tokositna Valley	850	4/01/12	58	16.3	50	12.0	62	18.7
Tyone River	2500	No Survey			19*	3.3*	24	5.2
Upper Oshetna	3150	4/02/12	30	7.5	17	4.1	---	---
Upper Sanona	3100	4/02/12	37	9.0	27	5.5	---	---
Ward Lake	2700	No Survey					25	5.3
Willow Airstrip	200	3/29/12	42	11.6	25	6.0*	31	8.1

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Little Susitna River near Palmer	Apr-Jul	86	104	121	125	83
Talkeetna River near Talkeetna	Apr-Jul	1630	1900	117	2150	1630

PRECIPITATION DATA

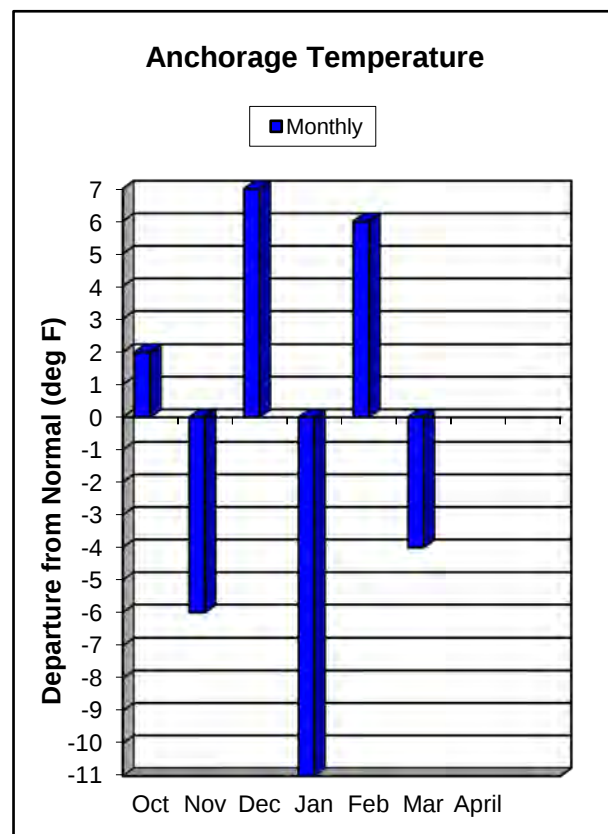
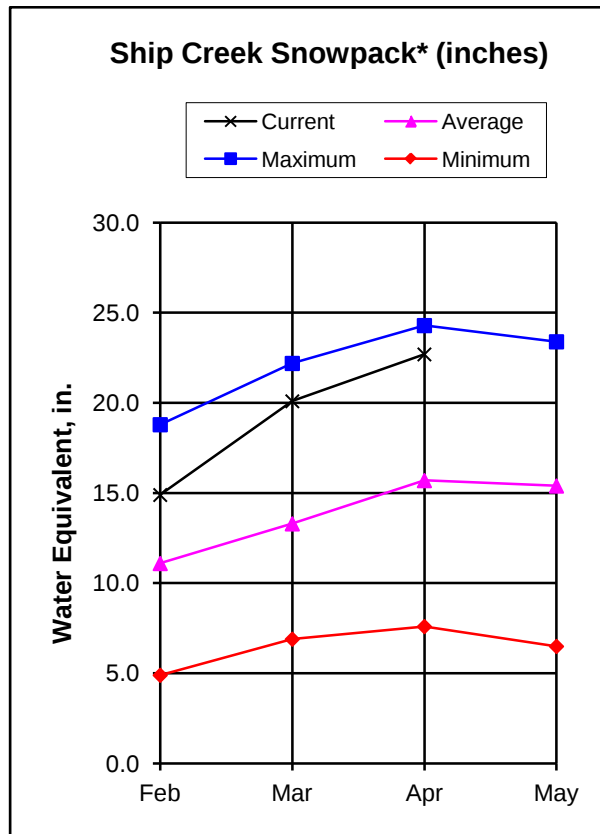
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (ft.)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Independence Mine	3550	4/01/12	21.6	12.5	25.9	83
Monahan Flat	2710	4/01/12	7.5	5.6	8.3	90
Susitna Valley High	375	4/01/12	12.7	9.8	11.7	108
Tokositna Valley	850	4/01/12	22.2	15.9	20.1	110

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lower Susitna	6	139	122
Matanuska/Little Susitna	6	218	124
Peters Hills	6	152	94
Upper Susitna	10	144	125

NORTHERN COOK INLET*



Current Basin Conditions

The Anchorage Bowl has 6 snow courses with record high snow water contents for April 1st. Three of the 5 Arctic Valley snow courses set new record high water content, they vary for 184 to 233 percent of average. The previous record high year was 1995 and 1992 with observations beginning in 1964. The Anchorage Hillside SNOTEL site has 57 inches of snow depth with 18.1 inches of water content, 185 percent of average. This is also a record high with the previous record being 50 inches of snow depth with 17.1 inches of water content in 1982, the record began in 1982.

The Moraine SNOTEL site above Eklutna Lake has 45 inches of snow depth with 13.7 inches of water content, 176 percent of average and a new record high snow water content. The previous record was in 1960 with 46 inches of snow depth and 13.0 inches of water content. The Moraine snow course record began in 1951 and was discontinued in 1974. The site was re-established in 2003 as a SNOTEL site and has had a continuous record with data being reported hourly.

At the southeast end of Turnagain Arm, the Portage Valley snow course has 98 inches of snow with 37.8 inches of water content, 252 percent of average. This is a record high snow water content with the previous high during 1999 having 36.4 inches. The record began in 1981.

The Snowmelt Runoff Index for Campbell Creek near Spenard and Glacier Creek near Girdwood are +3 and have unparalleled magnitude.

The April-July volume flow forecast for Ship Creek near Anchorage is 80,000 acre-ft, 138 percent of average.

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

Northern Cook Inlet

SNOW PACK DATA

Snow Course	Elev. (feet)	Date	This Year		Last Year		1971-2000 Average	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
			Inches					
Anchorage Hillside	2080	4/01/12	57	18.0	26	6.5	38	10.4
Arctic Ski Bowl	3000	3/30/12	73	29.5	31	9.5	43	14.0
Arctic Valley #1	500	3/30/12	30	8.4	15	3.6*	14	3.6
Arctic Valley #2	1000	3/30/12	37	10.5	15	3.4*	20	5.1
Arctic Valley #3	1450	3/30/12	44	13.4	24	5.8*	28	7.3
Arctic Valley #4	2030	3/30/12	43	13.6	22	5.6*	29	7.7
Chuitna Plateau	1540	3/28/12	64	21.5	45	18.0	86	26.9
Congahbuna Lake	500	3/28/12	49	14.6	36	10.5	38	10.8
Granite Point	250	3/28/12	35	10.2	14	4.2	15	5.6
Indian Pass	2350	4/01/12	85	31.8	55	16.5	71	23.7
Kincaid Park	250	4/03/12	30	8.5	17	4.0	16	4.2
Lone Ridge	1675	3/28/12	75	29.0	61*	27.0*	86	33.1
Moraine	2100	4/01/12	45	13.2	23	5.4	29	8.0
Mt. Alyeska	1540	4/01/12	100	35.9	70	20.3	107	36.9
Point Mackenzie	200	4/01/12	30	8.1	16	3.7	18	4.4
Portage Valley	50	3/30/12	98	37.8	22	10.0	39	15.0
South Campbell Creek	1200	3/29/12	34	9.9	22	5.4	28	7.4

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Ship Creek near Anchorage	Apr-Jul	58.0	80	138	92	68

PRECIPITATION DATA

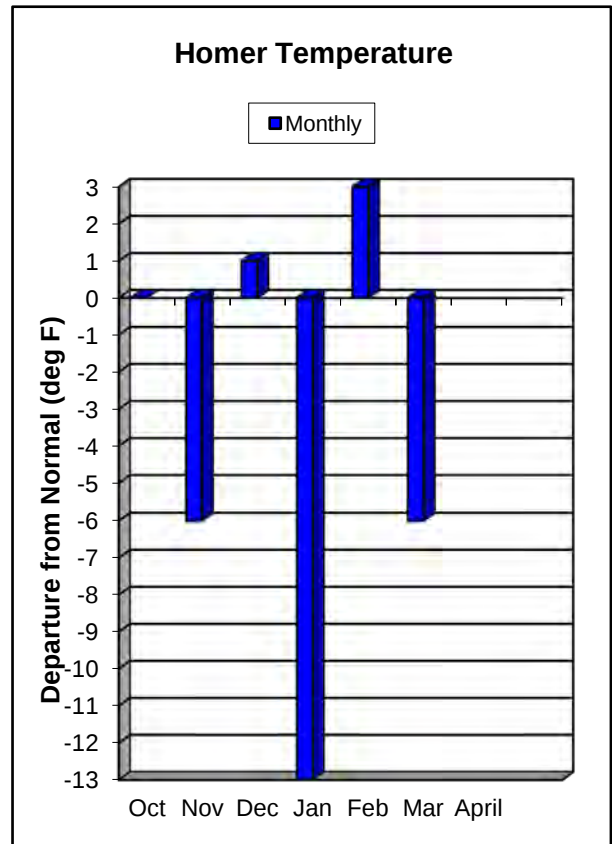
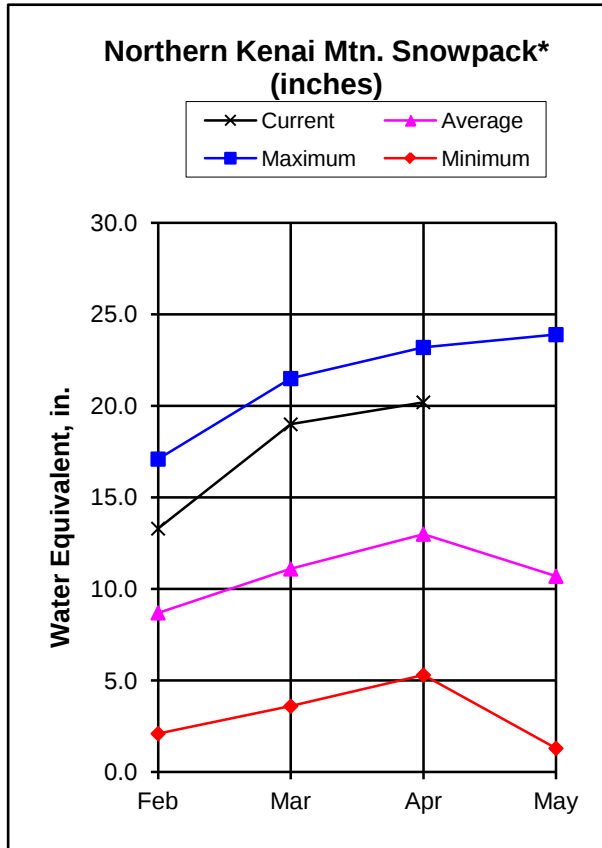
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Anchorage Hillside	2080	4/01/12	21.9	10.8	13.1	167
Indian Pass	2350	4/01/12	34.1	20.8	23.9	143
Moraine	2100	4/01/12	15.9	9.1	9.7	164
Mt. Alyeska	1540	4/01/12	48.1	39.8	43.6	110
Point Mackenzie	200	4/01/12	10.6	6.0	8.1	131

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Beluga	4	126	101
Campbell Creek	3	220	169
Ship Creek	8	247	175
Turnagain Arm	3	220	132

KENAI PENINSULA*



Current Basin Conditions

The Kenai Peninsula has received abundant snow this winter with 6 snow courses having the 2nd highest record snow water content being recorded. Demonstration Forest, Pass Creek, Resurrection Pass and Moose Pass snow courses had higher water contents in 1980 while Jean Lake and Kenai Moose Pens had higher water contents in 1992.

The 5 snow courses in the Ninichik Dome area are 143 percent of average with the Anchor River Divide SNOTEL site reporting 54 inches of snow depth with 16.0 inches of water content, 127 percent of average.

At the head of Kachemak Bay the Bradley Lake SNOTEL sites were measured with the Nuka Glacier snow course having 118 inches of snow depth and 52.3 inches of water content, 132 percent of average. The Kachemak Creek site measured 70 inches of snow depth with 38.3 inches of water content.

The Snowmelt Runoff Indexes for the streams on the north end of the Peninsula are as follows: Six Mile Creek near Hope, +2.4, Resurrection Creek near Hope, +2.5, Grouse Creek near Seward, +2.5. For the streams near Homer: Anchor River near Anchor Point, +1.5, Deep Creek near Ninilchik, +1.9, Ninilchik near Ninilchik, +1.9 and Fritz Creek near Homer, +2.5. The April-July volume flow forecast for Kenai River is 122 percent of average, 1,130,000 acre-ft.

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

Kenai Peninsula

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
					(inches)			
Anchor River Divide	1600	4/01/12	54	18.6	34	8.6	43	12.6
Bertha Creek	950	3/30/12	72	24.5	42	11.9*	57	17.6
Bridge Creek	1300	4/02/12	48	16.0	27	7.4	44	12.9
Cooper Lake	1200	4/01/12	62	22.1	43	11.1	50	15.6
Demonstration Forest	780	4/02/12	48	16.3	16	5.7*	32	9.5
Eagle Lake	1400	4/02/12	57	17.8	29	8.4*	42	12.7
Grandview	1100	4/01/12	92	35.9	74	22.2	83	28.0
Grouse Creek Divide	700	4/01/12	78	24.7	37	11.7	58	19.5
Jean Lake	620	3/29/12	32	9.4	18	4.6	15	4.0
Kachemak Creek	1660	3/30/12	70	38.3	26	10.4	---	---
Kenai Moose Pens	300	4/01/12	27	8.2	19	4.8	15	4.1
Kenai Summit	1390	3/30/12	58	19.6	37	10.5	46	14.3
McNeil Canyon	1320	4/01/12	50	17.9	23	7.8	38	10.7
Moose Pass	700	3/30/12	52	16.5	10	3.9	21	7.1
Nuka Glacier	1250	3/30/12	118	52.3	51	17.1	95	39.5
Pass Creek	1200	3/31/12	49	15.4	35	8.4	32	8.6
Port Graham	300	4/01/12	58	19.9	11	4.7*	20	5.9
Resurrection Pass	2250	3/30/12	53	18.0	36	8.6	38	10.9
Snug Harbor Road	500	3/29/12	34	10.1	16	4.7	18	5.1
Summit Creek	1400	4/01/12	57	18.4	33	9.2	44	12.1
Turnagain Pass	1880	4/01/12	112	41.8	80	26.6	106	36.0
estimate*								

STREAMFLOW FORECASTS

Forecast Point	Forecast Period	30- Yr Average (1000AF)	50 Percentile	% of Average	Max (1000AF)	Min (1000AF)
Kenai River at Cooper Landing	Apr-Jul	925	1130	122	1250	1010

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

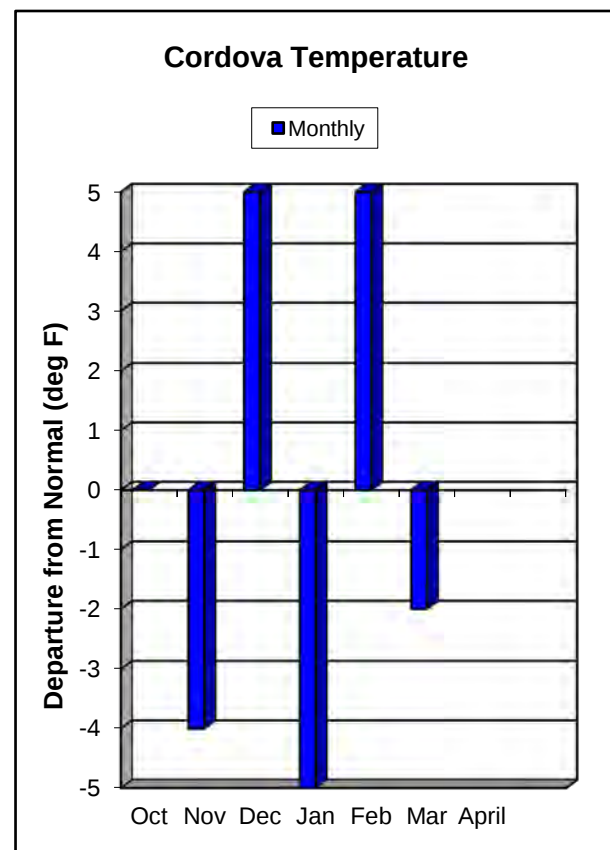
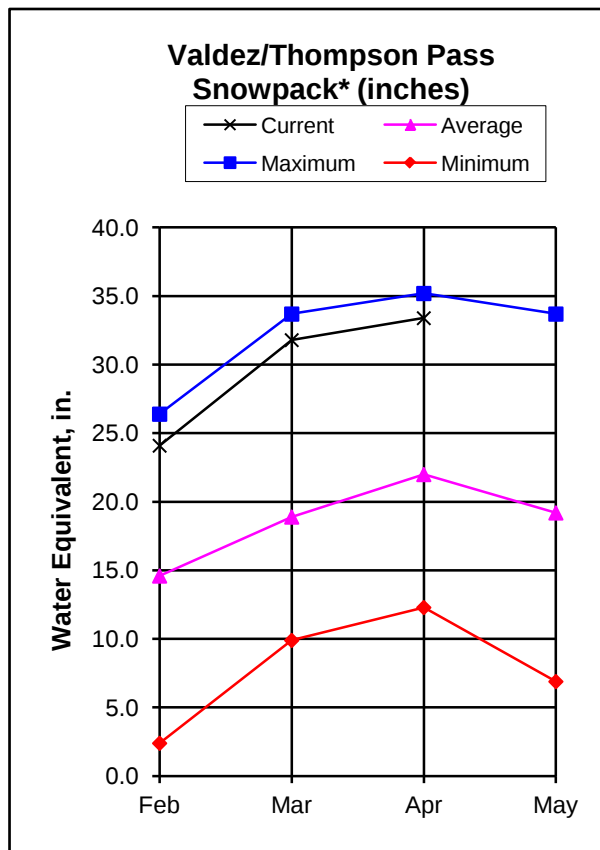
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Anchor River Divide	1600	4/01/12	19.6	15.6	18.5	106
Cooper Lake	1200	3/29/12	27.0	21.9	23.3	116
Grandview	1100	4/01/12	47.2	40.3	36.8	128
Grouse Creek Divide	700	3/30/12	42.2	29.9	35.3	120
Kachemak Creek	1660	3/30/12	43.0	32.2	39.4	109
Kenai Moose Pens	300	3/29/12	9.1	7.0	8.2	111
McNeil Canyon	1320	4/01/12	16.4	13.9	15.7	104
Middle Fork Bradley**	2300	3/30/12	37.5	24.6	34.6	108
Nuka Glacier**	1250	No Report	---	39.9	54.7	---
Port Graham	300	4/01/12	50.3	34.8	40.1	125
Summit Creek	1400	3/30/12	27.8	14.3	16.2	172
Turnagain Pass	1880	4/01/12	48.3	38.1	39.8	121

**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	344	159
Ninilchik Dome	5	203	143
Northern Kenai Mountains	13	202	145
Northern Kenai Flats	1	167	195

WESTERN GULF*



Current Basin Conditions

Three record high snow water contents were measured in this region, Worthington Glacier, Lowe River and Mt Eyak. The Worthington Glacier snow course has a record snow water content measured for April 1st, 98 inches of snow depth with 40.3 inches of water content. The previous record occurred in 1987 and was 98 inches of snow depth with 39.1 inches of water content with the record beginning in 1958. The Lowe River snow course has 74 inches of depth with 24.8 inches of water content, the previous high was 66 inches with 23.4 inches of water content in 1980. The record began in 1972.

The SNOTEL site at Mt. Eyak reports 115 inches of snow depth with an estimated 50.5 inches of snow water content, 209 percent of average. This is a record high with a short site history, beginning only in 2005.

Sugarloaf Mountain SNOTEL site, perched above the Solomon Gulch Hydroelectric across from the town of Valdez at 550 ft of elevation, reported 108 inches of snow depth and 42.2 inches of water content, 151% of average.

The Nuchek precipitation gauge, at Port Etches on the southwest side of Hinchinbrook Island, has received 95.8 inches of precipitation since October 1st 128% of average.

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

Western Gulf

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth (inches)	Water Content	Snow Depth	Water Content
Exit Glacier	400	3/31/12	76	26.5	40	11.4	57	15.9
Grouse Creek Divide	700	3/31/12	78	24.7	37	11.7	58	19.5
Lowe River	600	3/30/12	74	24.8	41	10.9	54	17.1
Mt. Eyak	1405	3/31/12	115	50.5	68	24.0	75	24.2
Nuka Glacier	1250	3/30/12	118	52.3	51	17.1	95	39.5
Sugarloaf Mountain	550	4/02/12	108	42.2	56	17.5*	87	28.0
Tsaina River	1650	3/30/12	65	21.6	46	11.7	57	17.6
Upper Tsaina River	1750	3/30/12	75	25.5	61	15.8	70	21.7
Valdez	50	3/30/12	77	26.4	33	10.6*	54	17.8
Worthington Glacier estimate*	2100	3/30/12	98	40.3	70	21.0*	72	24.9

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Esther Island	50	4/01/12	97.9	77.6	81.7	120
Grouse Creek Divide	700	4/01/12	42.2	29.9	35.5	120
Mt. Eyak	1405	4/01/12	82.3	67.5	67.5	122
Nuka Glacier**	1250	3/30/12	48.5	39.9	54.7	89
Port San Juan	50	4/01/12	81.8	69.8	75.5	108
Seal Island	30	No Report		---	40.4	
Strawberry Reef	50	4/01/12	54.1	44.3	46.7	116
Sugarloaf Mountain*	550	4/01/12	59.8	34.9	40.5	148
Tatitlek	50	4/01/12	51.7	40.8	38.4	135
Upper Tsaina River	1750	3/30/12	25.5	18.0	26.8	96

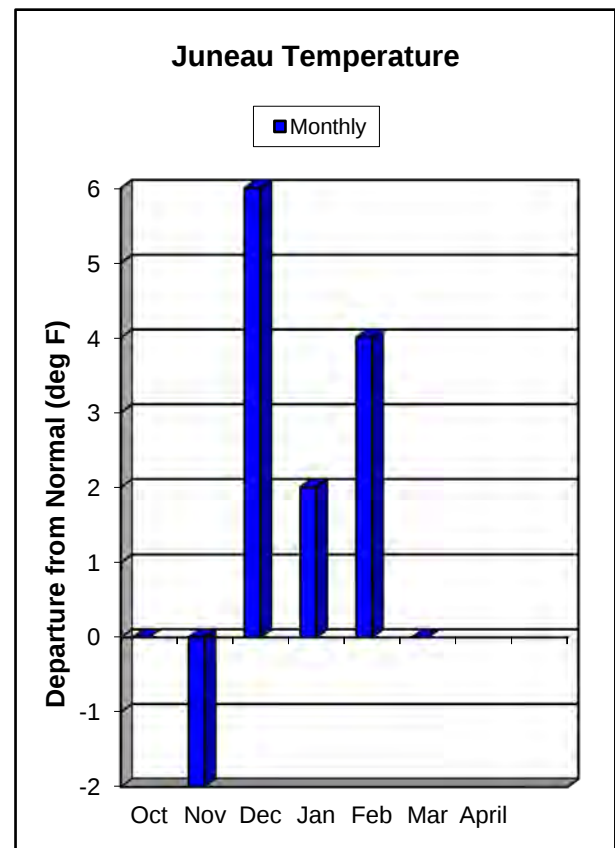
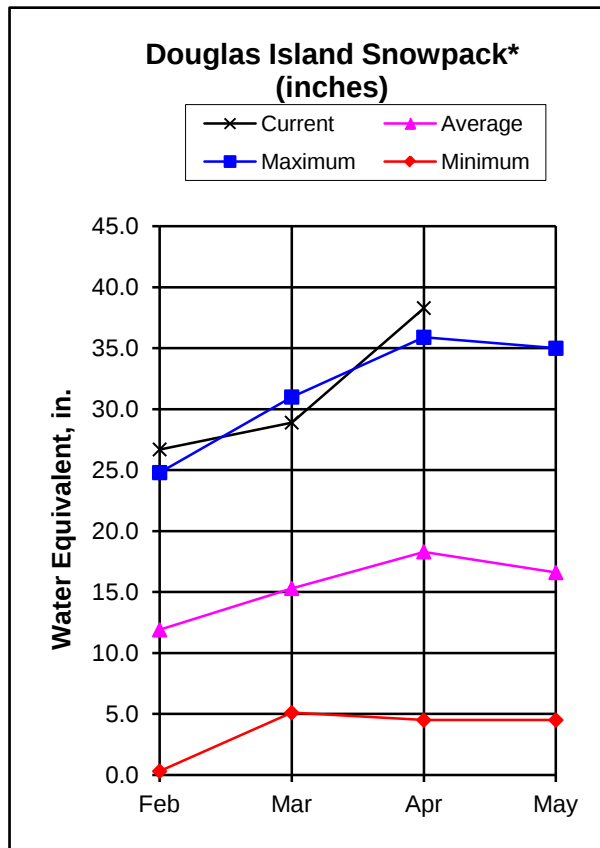
**Wyoming shielded gauge

*Copper Valley Electric Association

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lowe River (Valdez)	5	219	164
Eyak Lake	1	210	209

SOUTHEAST*



Snowcover:

Southeast Alaska continued its winter long snow accumulation period and has much above average snow water content with record high snow water contents at 3 snow courses. Petersburg Ridge has a record high water content of 63.7 inches; 2007 had its previous record high with a water content of 58.8 inches. Petersburg Reservoir has the third highest April 1st measurement for snow water content with 20.4 inches, while the record of 25.0 inches was set in 2007.

Two of the three Douglas Island snow courses have record high water contents; The Eagle Crest snow course has 116 inches of snow depth with 43.6 inches of water content, the previous record being in 2007 with 39.7 inches of water content; The Cropley Lake snow course has 148 inches of snow depth with 58.6 inches of water content, the previous record high was in 2007 with 48.4 inches of water content. The records began in 1977.

The Speel River snow course has 94 inches of snow depth with 42.6 inches of water content, 137 percent of average. This is the 5th highest water content while the record of 55.2 inches was set in 1976, the Speel River record began in 1965.

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

SOUTHEAST

SNOWPACK DATA

SNOW COURSE	ELEV.	DATE	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT	SNOW DEPTH	WATER CONTENT
Cropley Lake	1650	3/30/12	148	58.6	74	28.9	81	30.3
Eagle Crest	1200	3/30/12	116	43.6	54	18.6	54	18.5
Fish Creek	500	3/30/12	34	12.8	6	2.4*	19	6.2
Institute Creek	1350	4/02/12	97	40.6	---	---	---	---
Lake Grace Pass	1900	No Report			---	---	118	45.5
Long Lake	850	3/31/12	131	52.8	86	27.2	110	44.1
Lost Lake	425	No Report			---	---	39	15.0
Mint Creek Ridge	1900	No Report			---	---	117	43.6
Moore Creek Bridge	2250	4/01/12	63	21.5	48	13.7	73	20.0
Petersburg Reservoir	550	3/29/12	60	20.4	27	9.8	15	6.2
Petersburg Ridge	1650	3/30/12	138	63.7	66	24.0	71	26.4
Rainbow Falls	500	4/02/12	4	1.2	---	---	---	---
Speel River	280	4/02/12	94	42.6	53	23.3	78	31.1
Upper Swan Lake	1700	No Report			---	---	60	23.1
West Creek	470	3/30/12	46	15.0	12	3.9	---	---
Upper Silvas	2300	No Report			---	---	---	---

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	50	152	55	39

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elev.	Date	This Year	Last Year	71-2000 Ave	% of Average
Long Lake	850	4/01/12	104.5	94.4	96.4	108
Moore Creek Bridge	2250	4/01/12	29.1	27.1	26.8	109
Snettisham	25	No Report		98.5	106.8	---
Swan Lake	50	No Report		---	88.2	---

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Douglas Island	3	230	209
Petersburg	2	249	241
Skagway	1	207	135
Snettisham	2	189	127
Swan Lake	No Report		

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

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

Glennallen Field Office

District Conservationist, Keith Griswold

Telephone (907) 822-4489

Facsimile: (907) 822-4484

email: Keith.Griswold@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

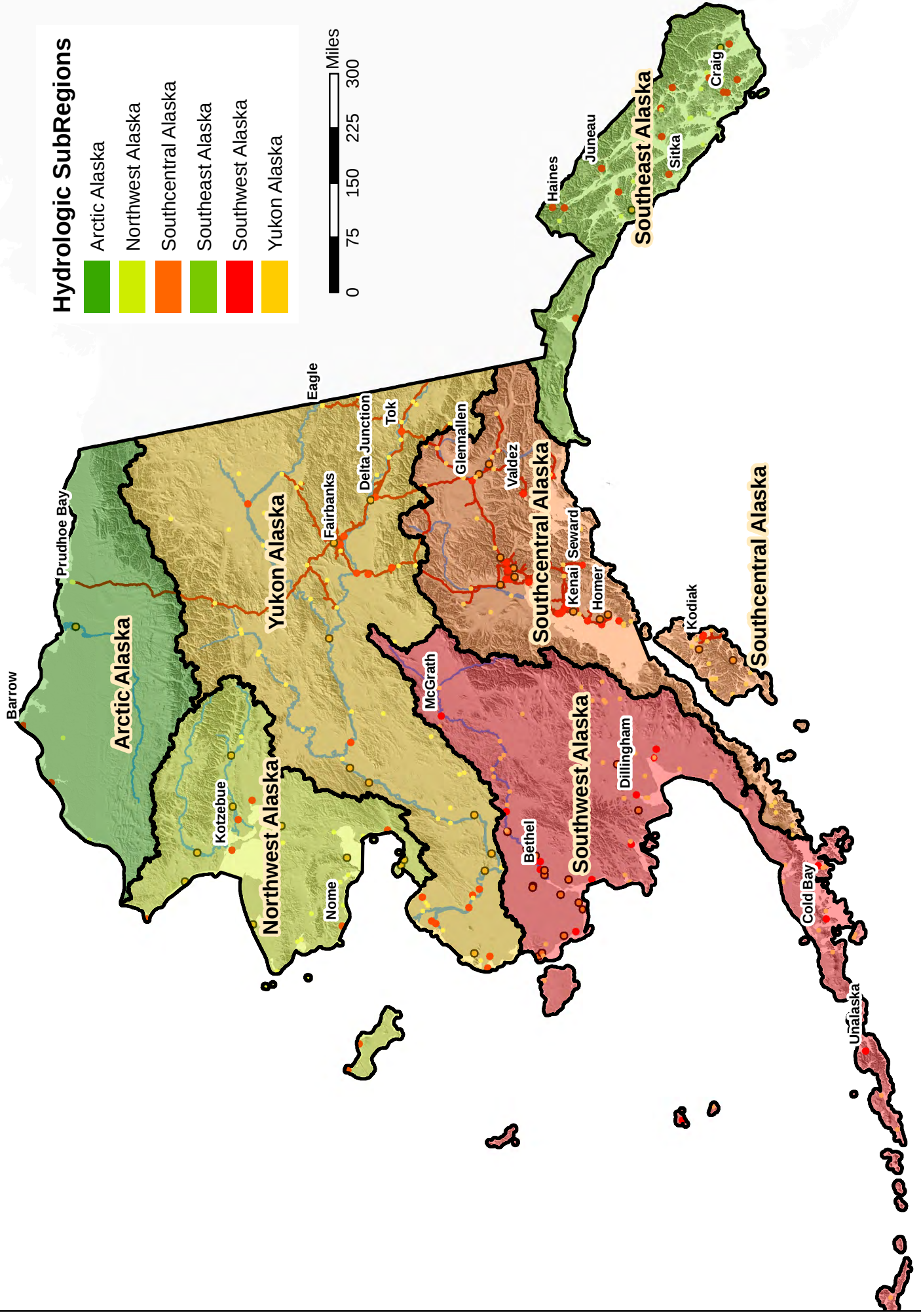
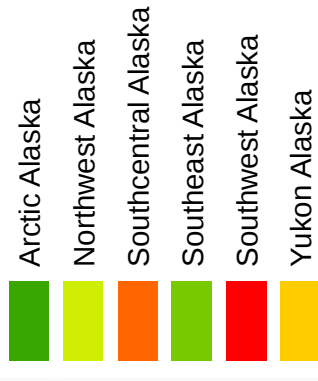
District Conservationist, Keith Griswold

Telephone (907) 373-6492 x 101

Facsimile: (907) 373-7192

e-mail: Keith.Griswold@ak.usda.gov

Hydrologic SubRegions



Alaska Snow Survey Report

Natural Resources Conservation Service
510 L Street, Suite 270
Anchorage, Alaska 99501-1949

