

Alaska Snow Survey Report

March 1, 2013



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Alaska Snow Survey

March 1, 2013

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General Overview

Snowpack

The snowpack across the state saw small gains during February in most basins. Due to the early winter dry and cold spells followed by warmer and wetter conditions, snowpacks within basins tend to be more highly variable than usual.

The Koyukuk continues to be much below normal (60%) with near record low snowpack, but is in better condition than last month. Other areas below normal include the Norton Sound and Bristol Bay areas along with the Susitna and Copper River Basins

Much of the state has near normal snowpack including the Central Yukon, Kuskokwim, and parts of the Lower Yukon basins. The Arctic did not receive much February snow, but remains near normal conditions due to higher than normal early winter snowfall.

The Upper Tanana basin and Forty Mile River Basin snowpack remain above normal as does the Southeast panhandle and the western Gulf of Alaska. While much of Southeast Alaska's higher elevation snowpack is above 140% normal, there is only half the snow there as was last year at this time.

The Upper Yukon basins are above normal. Several sites in the Yukon are recording their third or fourth highest March readings with records beginning in the mid 1970's.

Precipitation

Most of the state received normal to above normal precipitation during the month of February. However, most areas remain below normal for the water year. Three regions are at or above normal. These include the Chena Basin northeast of Fairbanks, the Y-K Delta, and northern Cook Inlet. Mt. Ryan SNOTEL in the Chena basin measured 1.1 inches of new precipitation or 128% of normal, bringing its accumulated total to 102% of normal since October 1st. Bethel is 151% of normal for the water year after receiving 0.95 inches of precipitation for the month, which is 221% of normal. Point Mackenzie received 150% of normal precipitation for the month and 114% for the water year. In southeast Alaska, Long Lake SNOTEL site received 176% of normal precipitation, or 19.2 inches, which only brought the site's water year total to 88% of normal or 75.5 inches since October 1st.

The Koyukuk continued to receive below normal precipitation with Coldfoot and Bettles measuring less than half of normal precipitation for both the month and the water year. Norton Sound and the Kenai Peninsula also received below normal precipitation. Nome received 65% of normal for the month while McNeil Canyon SNOTEL site, just east of Homer, received 78% of normal precipitation for the month.

Temperature

The above normal temperatures which occurred in January continued into February for most of the state. These ranged from 2 °F above normal in Fairbanks to 11 °F above normal in Whitehorse, Yukon Territory. Fort Yukon and Talkeetna were both 9 °F above normal for the month while Juneau, Homer and Gulkana were 6 °F above normal. The only part of the state which was not above normal was the western coast and the Arctic. Temperatures in Barrow for the first time this season were not above normal. Barrow had a zero departure from normal for the month of February. Both Nome and Bethel were below normal with -3 °F and -2°F departures, respectively.

STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

FORECAST POINT*	Percent of Ave. Flow	Period
Yukon River at Eagle	112	April - July
Porcupine River nr Int'l Boundary.....	97	April - July
Yukon River near Stevens Village	106	April - July
Tanana River at Fairbanks	105	April - July
Tanana River at Nenana.....	103	April - July
Little Chena River near Fairbanks	96	April - July
Chena River near Two Rivers.....	98	April - July
Salcha near Salchaket.....	106	April - July
Sagvanirktok River near Pump Station 3.....	96	April - July
Kuparuk River near Deadhorse	94	April - July
Kuskokwim River at Crooked Creek	109	April - June
Gulkana River at Sourdough	113	April - July
Little Susitna River near Palmer	98	April - July
Talkeetna River near Talkeetna.....	96	April - July
Ship Creek near Anchorage	107	April - July
Kenai River at Cooper Landing.....	100	April - July
Gold Creek near Juneau.....	109	April - July

SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

FORECAST POINT	INDEX	Index	Key:
Koyukuk River at Hughes	-2.3	-2 to -3	much below average snowmelt runoff
MF Koyukuk R near Wiseman	-2.6		
Slate Creek at Coldfoot.....	-2.5		
Beaver Creek above Victoria Creek.....	-0.7	-1 to -2	below average snowmelt runoff
Birch Creek below South Fork	+0.3		
Caribou Creek at Chatanika.....	-1.2		
Susitna River near Gold Creek	-0.4	-1 to +1	average snowmelt runoff
Chulitna River near Talkeetna.....	-2.3		
Deshka River at mouth near Willow	-0.9		
Montana Creek at Parks Highway.....	-0.8	+1 to +2	above average snowmelt runoff
Willow Creek near Willow	-0.4		
Skwentna River at Skwentna	-2.1		
Chuitna River near Tyonek	-1.0	+2 to +3	much above average snowmelt runoff
Campbell Creek near Spenard.....	-1.7		
Indian Creek at Indian.....	-1.2		
Bird Creek at Bird Creek	-1.2		
Glacier Creek nr Girdwood	-2.0		
Six Mile Creek near Hope	+1.0		
Resurrection Creek near Hope	-1.1		
Grouse Ck at Grouse Lake Outlet nr Seward	+0.6		
Anchor River near Anchor Point.....	0.0		
Deep Creek near Ninilchik	0.0		
Ninilchik River near Ninilchik.....	0.0		
Fritz Creek near Homer.....	+1.2		
Skagway River at Skagway	+0.3		
Municipal Watershed C nr Petersburg	+0.5		

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

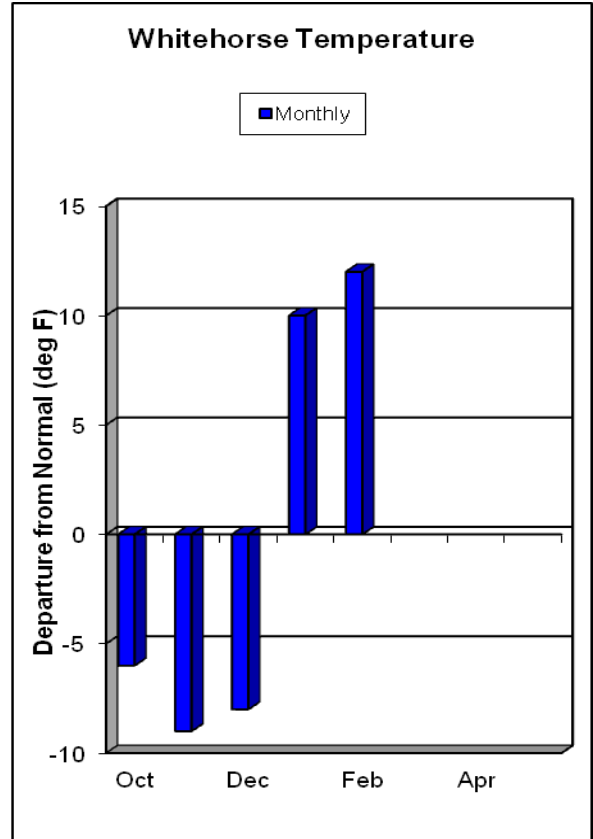
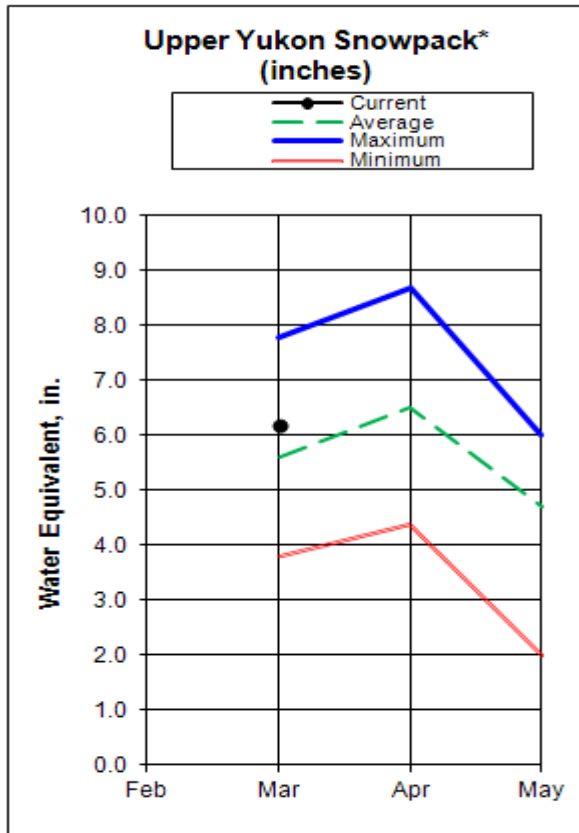
HOW FORECASTS ARE MADE

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:

New 30 year normals have not been determined yet for the Upper Yukon so the old normals are being used this month.

The Upper Yukon basin snowpack is above normal. Several sites record their third or fourth highest March snowpack including Hoole River, Mt. Berdoe, Mt. Nansen, and Finlayson Airstrip. Many of these records started around 1976.

The Yukon basin above Whitehorse had 9 snow courses measured averaging 112% of normal. Morley Lake snow course, with 112% of normal, measured 24 inches deep with 6.1 inches of water content. The Dawson area snow course measured 125% of normal. This above normal snowpack continues up the Stewart and Pelly basin where their 13 snow courses measure 115% of normal.

The White River Basin, south of Dawson, has 8 snow courses measured averaging 125% of normal. Mount Nansen, at 154% of normal, had 24 inches of snow depth and 4.0 inches of water content.

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

Upper Yukon Basin

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
ARROWHEAD LAKE	3675	No Survey	---	---	---	---	---	---
ATLIN	2395	2/25/2013	18	4.2	13	3.6	---	---
BEAVER CREEK	2150	2/25/2013	21	3.6	22	4.1	---	---
BURNS LAKE	3650	3/2/2013	41	10.3	41	9.4	---	---
BURWASH AIRSTRIP	2660	2/28/2013	12	1.9	11	2.1	---	---
CALUMET	4300	2/25/2013	34	6.2	37	5.9	---	---
CASINO CREEK	3495	2/25/2013	24	3.9	28	6.1	---	---
CHAIR MOUNTAIN	3500	2/26/2013	23	4.2	19	3	---	---
DUKE RIVER	4300	No Survey	---	---	---	---	---	---
EDWARDS LAKE	2720	3/2/2013	32	6.1	37	7.8	---	---
FINLAYSON AIRSTRIP	3240	3/2/2013	26	6.2	16	3.9	---	---
FULLER LAKE	3695	3/1/2013	36	6.9	39	9.1	---	---
GRIZZLY CREEK	3200	2/28/2013	32	7.2	37	8.9	---	---
HOOLE RIVER	3400	3/2/2013	32	7.1	31	6	---	---
JORDAN LAKE	3050	3/2/2013	26	5.6	25	4.6	---	---
KING SOLOMON DOME	3540	2/27/2013	36	6.7	35	7	---	---
LOG CABIN (B.C.)	2900	2/27/2013	48	14.7	61	20.8	---	---
MACINTOSH	3805	2/25/2013	24	4.1	25	3.9	---	---
MAYO AIRPORT	1770	2/25/2013	24	5.1	25	3.9	---	---
MEADOW CREEK	4050	2/26/2013	43	10.9	49	13.8	---	---
MIDNIGHT DOME	2805	2/26/2013	40	7.6	31	6	---	---
MONTANA MTN.	3350	2/27/2013	25	5.1	29	6.5	---	---
MORLEY LAKE	2700	2/26/2013	24	6.1	26	6	---	---
MT. BERDOE	3395	2/25/2013	3	5.6	28	5	---	---
MT. MCINTYRE B	3600	2/25/2013	27	5.3	32	8.4	---	---
MT. NANSEN	3350	2/25/2013	24	4	22	2.7	---	---
PELLY FARM	1550	3/1/2013	20	3.5	22	3.9	---	---
PLATA AIRSTRIP	2725	3/1/2013	38	9.4	42	9.4	---	---
RACKLA LAKE	3410	3/1/2013	32	6.2	40	9.1	---	---
RIFFS RIDGE	2130	2/28/2013	35	5.9	32	5.3	---	---
RUSSELL LAKE	3480	3/1/2013	38	8	47	11.1	---	---
SATASHA LAKE	3630	2/25/2013	21	4	25	4.1	---	---
SUMMIT	985	2/25/2013	27	5.3	43	12.6	---	---
TAGISH	3540	2/27/2013	26	4.8	25	5.1	---	---
TWIN CREEKS	2950	3/1/2013	39	7.9	37	7.5	---	---
WHITEHORSE AIRPORT	2300	2/25/2013	21	3.9	23	5.3	---	---
WILLIAMS CREEK	3000	2/25/2013	24	4.1	---	---	---	---
WITHERS LAKE	3200	3/1/2013	34	6.8	47	11.1	---	---

*Estimate

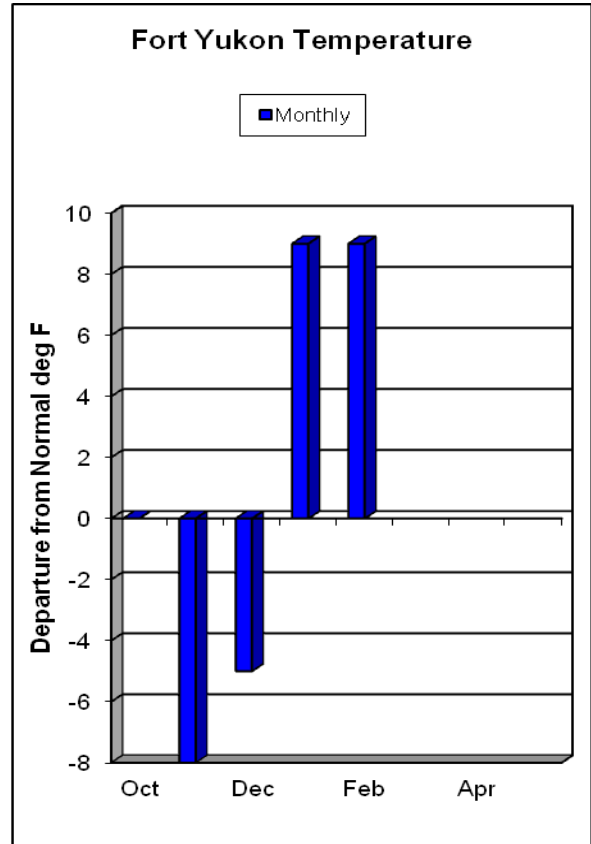
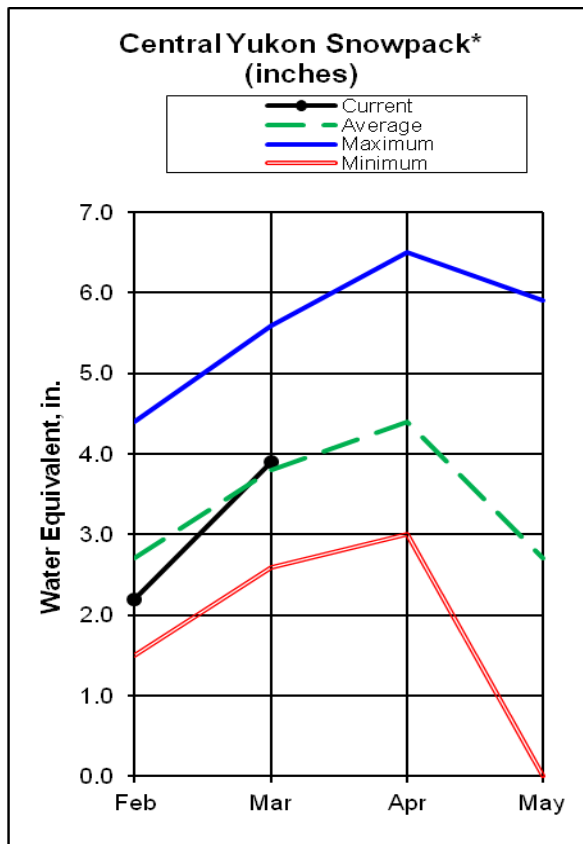
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Yukon River At Eagle	Apr- Jul	33300	37391	112	128	97

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Above Whitehorse/ Tetlin	8	80	---
Dawson	3	98	---
Stewart/ Pelly	13	91	---
Porcupine River	3	98	---
White River	8	101	---

CENTRAL YUKON BASIN*



Snowcover:

The Central Yukon Basin snow pack is mostly near normal. The Yukon Flat snow courses average 93% of normal as represented by Fort Yukon snow course with 19 inches of snow depth and 2.8 inches of water content.

The six measured snow courses on the north side of the White Mountains average 103% of normal. These range from 83% at Stack Pup snow course to 119% of normal at Wolf snow course. The Upper Nome SNOTEL, in the headwaters of Beaver Creek, has 25 inches of snow and has caught 5.3 inches of precipitation since October 1st, or 123% of normal.

The Forty Mile Basin is much above normal with the four courses measured there being averaging 133% of normal. Lost Chicken Hill snow course had 22 inches of snow depth and 4.0 inches of water content.

The Porcupine River basin, in the north Yukon Territory, has near normal snow pack. The three snow courses measured in this area range from 84% of normal at Eagle River to 116% of normal at Riff's Ridge.

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

Central Yukon Basin

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
AMERICAN CREEK	1050	3/1/2013	17	2.9	18	3	---	---
BOREALIS	1330	2/27/2013	21	4.3	25	4.4	23	4
BOUNDARY	3500	3/5/2013	22	5.6	20	3.4	22	4.3
CATHEDRAL CREEK	800	2/26/2013	26	4.1	28	5.5	---	---
CHICKEN AIRSTRIP	1650	3/5/2013	19	3.9	14	2.7	16	2.8
CIRCLE HOT SPRINGS	860	2/28/2013	22	3.5	20	3.4	22	3.6
COAL CREEK	1000	No Survey	---	---	20	3.2	---	---
COPPER CREEK	2000	2/26/2013	20	3	13	2	---	---
CRESCENT CREEK	600	2/26/2013	22	3.4	18	2.8	---	---
EAGLE PLAINS	2330	2/28/2013	30	5.6	31	5.5	---	---
EAGLE RIVER	1115	2/28/2013	31	3.8	30	4.8	---	---
FORT YUKON	430	2/27/2013	19	2.8	24	3.7	18	3
FOSSIL	1400	2/26/2013	20	4.1	23	4.2	22	3.8
HESS CREEK	1000	2/28/2013	21	4.1	30	6.6	24	4.5
LOST CHICKEN HILL	2100	3/5/2013	22	4	15	2.6	18	3.1
LOWER BEAVER CREEK	400	No Survey	---	---	---	---	---	---
MT. FAIRPLAY	3100	3/4/2013	24	5.1	17	3	20	3.8
OLD CROW	980	No Survey	---	---	---	3.9	---	---
RIFFS RIDGE	2130	2/28/2013	35	5.9	32	5.3	---	---
SEVEN MILE	600	2/28/2013	22	4.2	29	5.8	26	4.6
STACK PUP CREEK	1620	2/28/2013	23	3	21	3.6	23	3.7
STEP MOUNTAIN	850	2/26/2013	30	4.8	30	6	---	---
THIRTY MILE	1350	2/28/2013	21	4	32	6.7	34	7
THREE FINGERS	350	2/26/2013	30	4.8	27	5.3	---	---
UPPER NOME CREEK	2520	3/1/2013	25	4.6*	25	4.5*	---	---
VUNZIK LAKE	500	No Survey	---	---	---	---	---	---
WINDY GAP	1900	2/27/2013	22	4.4	---	---	24	4.8
WOLF	1300	2/26/2013	22	4.3	---	---	21	3.6

*Estimate

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Porcupine River near Intl Boundary	Apr-Jul	5640	5476	97	144	65
Yukon River near Stevens Village	Apr- Jul	48100	50900	106	121	91

PRECIPITATION DATA

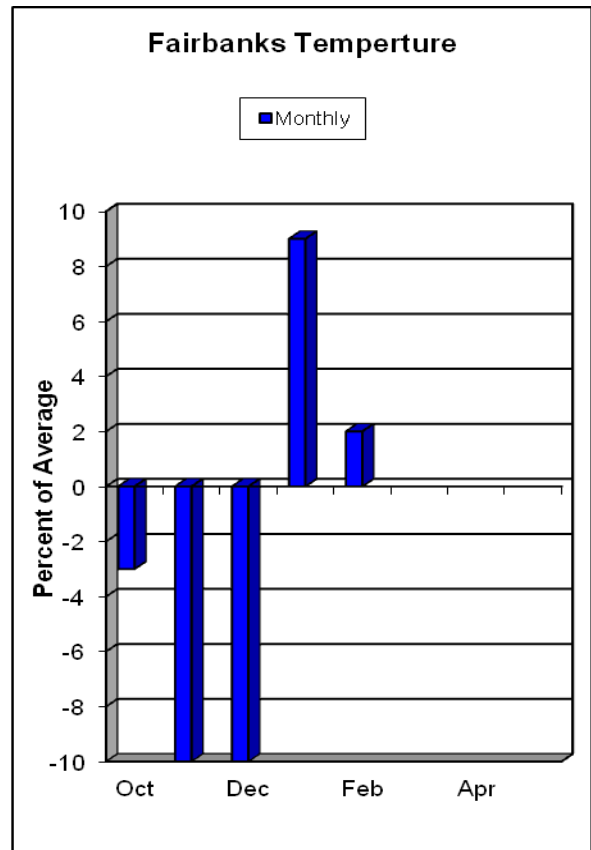
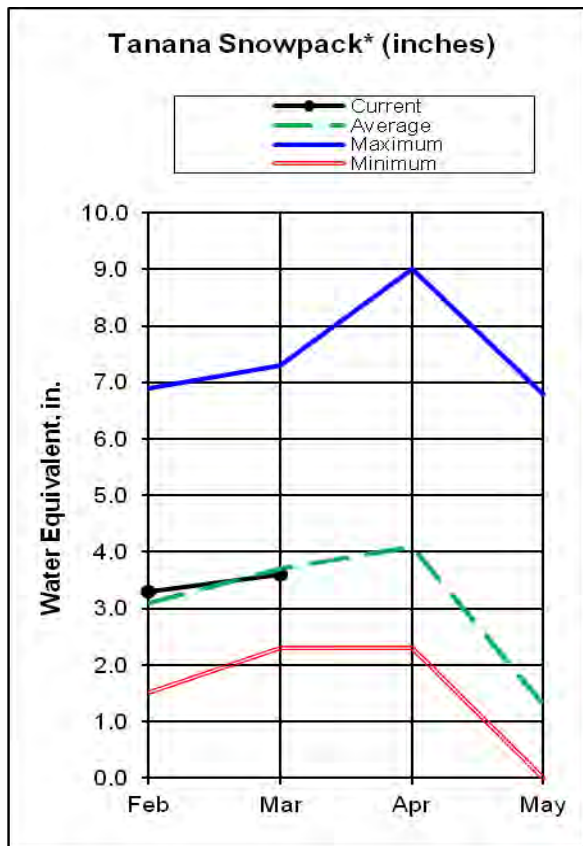
INCHES ACCUMULATED SINCE OCTOBER 1st

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
AMERICAN CREEK	1050	3.0	3	---	---
ATIGUN PASS	4800	2.6	6.3	4.8	54%
CHANDALAR CAMP	3300	2.9	4.9	4.5	64%
EAGLE SUMMIT	3650	4.5	3.5	4.7	96%
FORT YUKON	430	2.7	3.7	3.1	87%
UPPER NOME CREEK	2520	5.3	5.8	4.3	123%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Forty Mile	4	159	133
Porcupine (Y.T.)	3	98	---
White Mountains	4	98	103
Yukon Flats	9	84	93

TANANA BASIN*



Snowcover:

The upper Tanana Valley snowpack remains above normal with seven snow courses measured and averaging 116% of normal. The courses varied from 73% of normal at Chisana SNOTEL site to 143% of normal at Paradise Hill. This is the third highest March measurement Paradise Hill has had since its beginning in 1993, with the record being measured in 2011.

The snowpack lightens slightly down valley. The five Delta area snow courses average 113% of normal, ranging from 76% at Gerstle River to 135% at Fielding Lake. The rest of the lower Tanana Valley maintains an above normal snowpack. On the south side of the valley the Kantishna SNOTEL site has 25 inches of snow with an estimated 4.6 inches of water content or 105% of normal, while on the north side of the valley the Chatanika and Chena Basin averaged 109% and 104%, respectively.

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

Tanana Basin

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
BONANZA CREEK	1150	2/28/2013	26	4.4	26	5.6	20	3.9
CARIBOU CREEK	1250	2/26/2013	22	4.3	23	4.4	20	3.6
CARIBOU SNOW PILLOW	900	2/26/2013	22	3.9	23	3.8	21	3.6
CHISANA	3320	3/1/2013	16	3.0	17	3.2		4.1
CLEARY SUMMIT	2230	2/28/2013	28	5.1	29	5.5	26	4.6
COLORADO CREEK	700	3/1/2013	22	3.8	23	4.7	20	3.4
FAIRBANKS F.O.	450	3/1/2013	20	3.8	19	3.3	---	3.1
FAITH CREEK	1900	2/28/2013	24	4.2	24	3.8	24	4.2
FIELDING LAKE	3000	3/1/2013	46	11.6	50	12.0	37	8.6
FORT GREELY	1500	2/28/2013	16	2.8	21	4.0	17	3.0
FRENCH CREEK	1800	3/1/2013	25	4.5	29	5.1	24	4.6
GERSTLE RIVER	1200	2/28/2013	14	2.2	19	3.1	18	2.9
GOLD KING	1700	2/27/2013	24	4.6	22	4.3	19	3.3
GRANITE CREEK	1240	3/1/2013	14	2.8	22	4.4	---	3.5
JATAHMUND LAKE	2180	3/4/2013	17	3.1	17	2.7	16	2.8
KANTISHNA	155	3/1/2013	25	4.6	24	4.6	24	4.4
LAKE MINCHUMINA	730	2/27/2013	19	3.3	22	3.3	19	3.4
LITTLE CHENA RIDGE	2000	3/1/2013	14	3.5	15	4.4	---	4.3
LOST CREEK	3030	2/26/2013	16	3.1	18	3.5	17	3.0
MENTASTA PASS	2430	3/1/2013	30	7.0	32	7.6	24	5.1
MONUMENT CREEK	1850	3/1/2013	21	4.6	18	3.8	---	4.0
MT. RYAN	2800	3/1/2013	23	4.5	25	4.8	---	4.4
MUNSON RIDGE	3100	3/1/2013	30	6.8	29	6.6	---	5.9
PARADISE HILL	2200	3/4/2013	20	4.0	16	2.7	16	2.8
PTARMIGAN AIRSTRIP	2400	2/27/2013	20	3.8	27	5.5	17	2.9
PTARMIGAN CREEK	2230	2/28/2013	25	4.2	21	3.8	23	3.6
ROCK CREEK BOTTOM	2250	No Survey	---	---	23	4.5	20	3.7
ROCK CREEK RIDGE	2600	No Survey	---	---	25	5.2	18	3.6
SHAW CREEK FLATS	980	3/1/2013	18	3.2	15	2.4	14	2.5
TEUCHET CREEK	1640	3/1/2013	21	3.4	17	3.1	---	3.3
TOK JUNCTION	1650	3/1/2013	22	3.7	23	4.3	18	3.0
UPPER CHENA PILLOW	2850	3/1/2013	30	5.2	26	5.0	---	5.5
UPPER WOOD RIVER	2990	2/27/2013	24	4.8	31	6.5	21	4.0

*Estimate

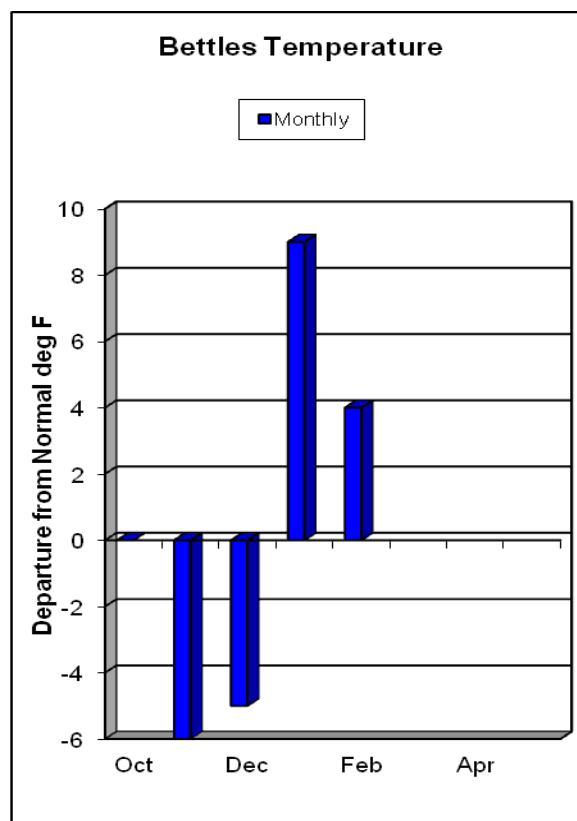
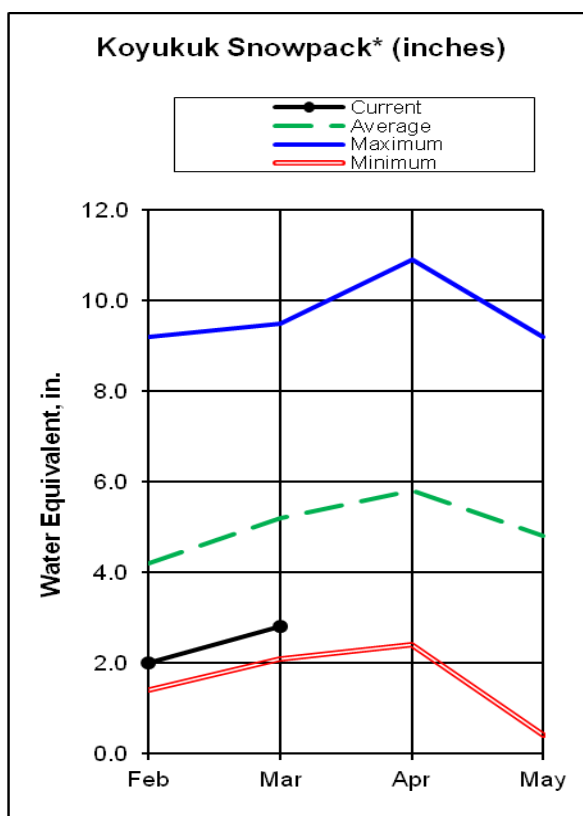
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Tanana River at Fairbanks	Apr- Jul	7460	7800	118	105	91
Little Chena River near Fairbanks	Apr-Jul	78	75	96	133	59
Chena River near Two Rivers	Apr-Jul	270	265	98	141	55
Salcha River near Salchaket	Apr- Jul	625	600	96	123	57
Tanana River at Nenana	Apr- Jul	9000	9250	103	116	89

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Chatanika	4	100	109
Chena Basin	8	86	90
Lower Tanana Valley	6	89	111
Mid Tanana Valley (Delta Junction)	6	83	113
Upper Tanana Valley (Tok)	7	98	115

WESTERN INTERIOR BASINS*



SNOWCOVER:

Koyukuk

The Koyukuk Basin remains the driest region of the state this winter. Bettles Field SNOTEL has 2.4 inches of snow water content, 43 percent of normal, and the third lowest March in its 32 year record.

The 14 snow sites in the basin average 47% of last year and 64% of normal. Table Mountain snow course is 64% of normal with 11 inches of snow with 2.1 inches of water content. That ties as Table Mountain's fourth lowest year with the record beginning in 1972.

Kuskokwim

The Aniak SCAN site, located on the KNA Aniak Farm, has 24 inches of snow, with an estimated 5.4 inches of water content, which is above normal. The National Weather Service site at the McGrath Airport measured 41 inches of snow with only two other years having more snow since 1980.

Lower Yukon

The snowpack in the Lower Yukon Basin is above normal. The six sites measured in this area averaged 116%. Innoko Inn snow course was measured with 21 inches of snow depth and 4.5 inches of water content.

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

Western Interior Basins

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Koyukuk								
BETTLES FIELD	640	3/1/2013	16	2.4	33	6.5	---	5.6
BONANZA FORKS	1200	2/28/2013	16	3	31	7.4	26	4.8
CLOVERLEAF	170	2/27/2013	20	3	36	7.4	---	---
COLDFOOT	1040	3/1/2013	12	2.3	30	6.6	---	5.3
COLVILLE BEND	170	2/27/2013	21	4	33	7	---	---
DISASTER CREEK	1550	3/1/2013	11	2.2	25	5	22	3.2
HUGGINS CREEK	290	2/27/2013	19	3.3	36	7.4	---	---
JR SLOUGH	160	2/27/2013	27	5.1	38	8.2	---	---
KALDOYEIT	580	2/27/2013	20	3.8	32	7.4	20	3.7
KANUTI CHALATNA	550	2/27/2013	18	3.1	32	7.3	28	5.2
KANUTI KILOLITNA	550	2/27/2013	15	2.5	23	5.3	21	4.0
MINNKOKUT	580	2/27/2013	21	3.4	35	8	32	5.7
NOLITNA	560	2/27/2013	17	3.3	29	6.4	28	5.0
TABLE MOUNTAIN	2200	3/1/2013	11	2.1	23	4.5	21	3.3
TAIHOLMAN	540	2/28/2013	4	0.6	9	2	4	0.8
TREAT ISLAND	190	2/27/2013	12	2.4	27	5	---	---
Kuskokwim								
ANIAK SCAN		3/1/2013	24	5.4*	---	---	---	---
JOHNNY SLU	180	No Survey	---	---	30	5.8	---	---
KOGRUKLUK RIVER	493	No Survey	---	---	53	10	---	---
LAKE MINCHUMINA	730	2/27/2013	19	3.3	22	3.3	19	3.4
LOWER ANIAK	164	2/27/2013	21	4	---	---	---	---
MCGRATH	340	3/1/2013	41	8.6*	---	9.2	27	5.4
MIDDLE KUSKOWIM	297	3/4/2013	22	5	37	6.9	---	---
N. FORK KUSKOKWIM	512	3/4/2013	26	6.7	34	7	---	---
NIXON FORK KUSKOKWIM	508	3/4/2013	29	6.9	---	---	---	---
PURKEYPILE MINE	2025	2/27/2013	12	2.1	26	5.3	24	4.6
TELAQUANA LAKE	1550	3/2/2013	18	4	24	4.5	22	4.4
UPPER TWIN LAKES	2000	2/28/2013	16	3	---	8.4*	27	6.4
Lower Yukon								
DEER CREEK	195	No Survey	24	4.0	44	9.5	---	---
GROUCH CREEK	220	2/28/2013	44	8.5	---	---	31	7.0
HOLIKACHUK	100	2/28/2013	43	8.2	---	9.4	34	7.6
HORSEFLY CREEK	180	2/28/2013	38	7.5	---	---	27	5.6
INNOKO INN	200	2/28/2013	21	4.5	---	---	---	---
LITTLE MUD RIVER	855	2/27/2013	19	3.6	26	5.3	---	---
LOWER NOWITNA RIVER	205	No Survey	---	---	24	4.9	---	---
MIDDLE INNOKO	150	2/28/2013	40	7.7	---	---	32	6.5
NINEMILE ISLAND	140	2/28/2013	27	4.7	45	9	---	---
PIKE TRAP LAKE	130	2/27/2013	17	2.8	19	4	---	---
SQUIRREL CREEK	150	2/28/2013	31	6	39	8.5	---	---
WAPOO HILLS	220	2/28/2013	42	9.2	---	---	33	6.8
YANKEE SLOUGH	100	2/28/2013	37	7.5	---	---	38	8.4

*Estimate

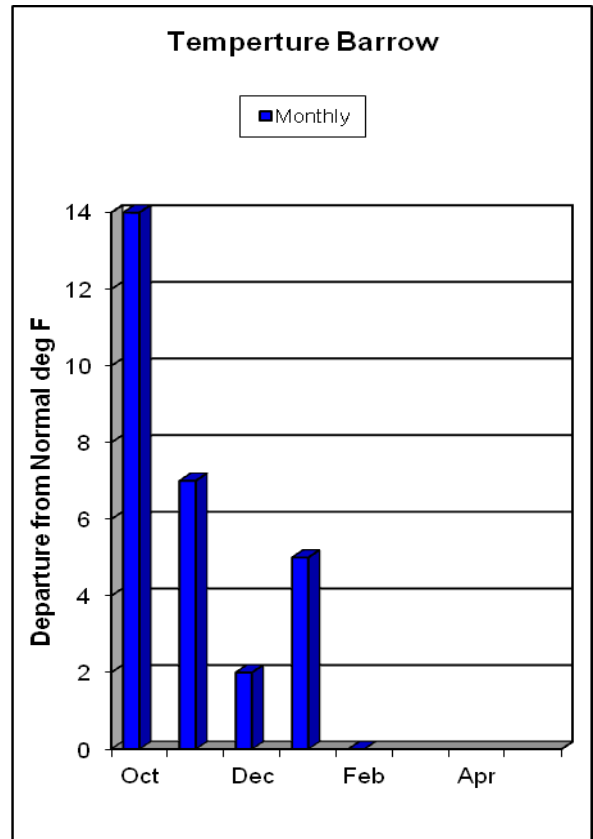
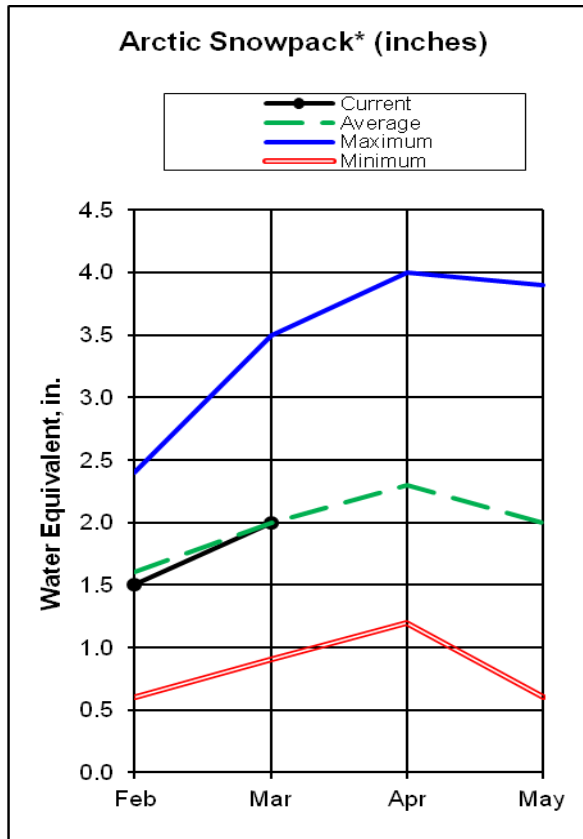
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Kuskokwim River at Crooked Creek	Apr-Jun	10500	11400	109	140	77

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Koyukuk	14	47	64
Upper Kuskokwim	7	73	87
Lower Yukon	5	70	116

ARCTIC AND KOTZEBUE SOUND*



Snowcover:

Arctic

The Arctic had below normal precipitation during the month of February. Atigun Pass only received 0.1 inches of precipitation during the month and 1 inch of new snow. Umiat Airfield averages 20 inches of snow depth with 3.7 inches of water content. Imnaviat Creek SNOTEL has 25 inches of snow and an additional 0.3 inches of precipitation bring its water year total to 2.4 inches or 94% of normal.

Kotzebue

After receiving 0.3 inches during February, the Red Dog precipitation gauge has received 5.9 inches of precipitation since October 1st, 3.9 inches of that falling during the month of October. The Kelly Station SNOTEL site on the Noatak River has 9 inches of snow with 1.3 inches of water content.

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

Arctic and Kotzebue Sound

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Umiat Airfield	267	3/2/2013	20	3.7	---	---	---	---
Kelly Station	310	3/1/2013	9	1.3	17	3.5	---	---

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Inches Accumulated since October 1st		
			Last Year	1981-2010 Average	% of Average
Arctic					
ATIGUN CAMP	3400	3.4	2.1	2.5	84%
ATIGUN PASS	4800	2.6	6.3	4.8	54%
BARROW	25	1.6	1.6	---	---
IMNAVIAT CREEK	3050	2.4	2.5	2.6	92%
PRUDHOE BAY	30	1.8	2.6	2.6	69%
SAGWON	1000	1.9	2.3	2.6	73%
Kotzebue Sound					
Port Red Dog	50	3.4	5.9	3.5	97%
Red Dog Mine	950	5.9	5.8	4.3	135%

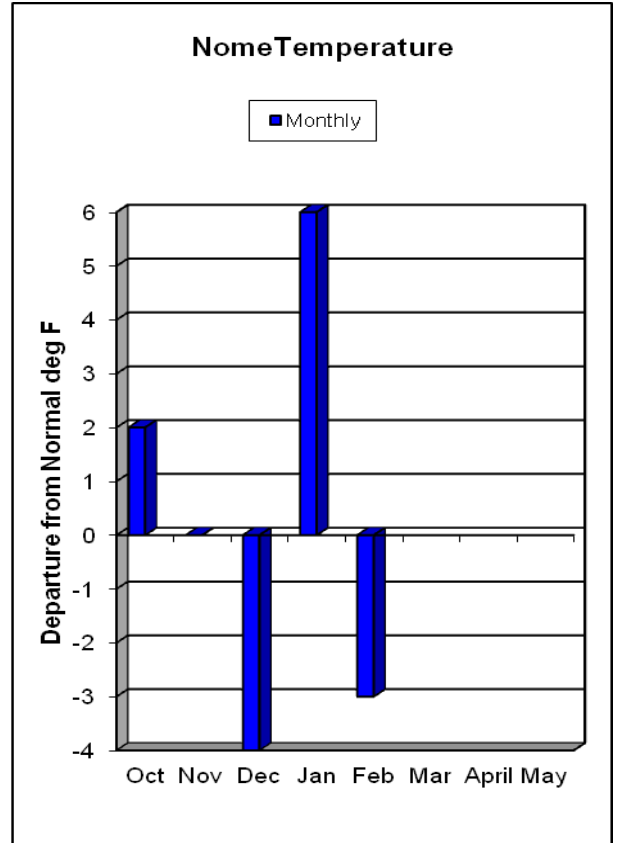
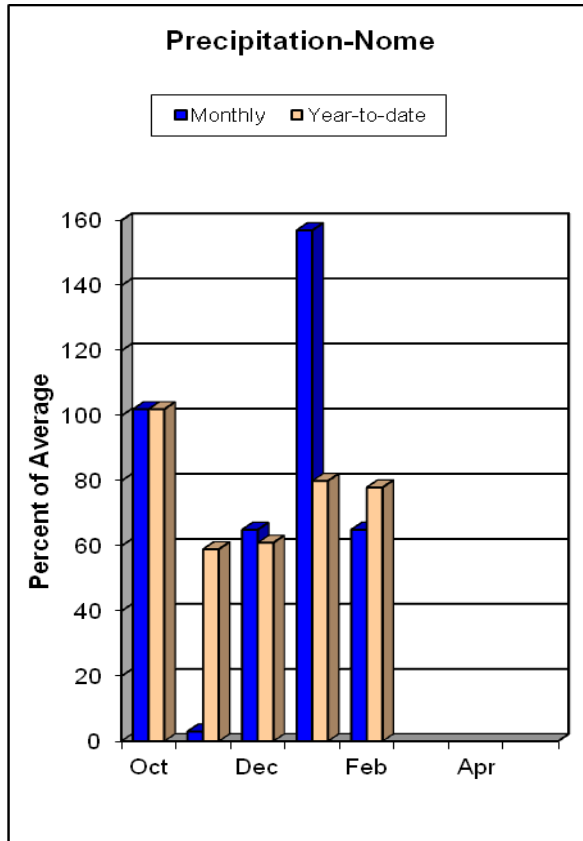
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Sagvanirktok River near Pump Station 3	Apr-Jul	684	660	96	118	75
Kuparuk River near Deadhorse	Apr-Jul	796	670	94	114	54

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Dalton Highway	2	---	100

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*



Snowcover:

Norton Sound

Rocky Point SNOTEL site has 22 inches of snow depth with an estimated 4.0 inches of water content. The precipitation gauge at Pargon Creek has received 4.8 inches of precipitation since October 1st which is 94% of normal. Johnsons Camp SNOTEL site, 30 miles east of Nome, only has 8 inches of snow on the ground.

Southwest Delta

The Aniak SCAN site reported 24 inches of snow depth, above normal. Bethel has received a good amount of precipitation since October 1st. The National Weather Service is reporting an accumulated total of 151% above normal.

Bristol Bay

Snow is variable in the Bristol Bay basin, mainly being below normal. Brooks Camp reports 13 inches of snow and King Salmon 8 inches. Port Alsworth Snow Course has 12 inches of snow with 2.6 inches of water content, up from having no snow last month. The Lower Mulchatna SNOTEL site, on the windblown tundra northeast of Koliganek, is reporting 6 inches of snow depth. Weary Lake SNOTEL site, a new SNOTEL site 23 miles west of Dillingham at an elevation of 100 feet, is reporting 59 inches of snow.

Norton Sound / Southwest Delta / Bristol Bay

SNOWPACK DATA

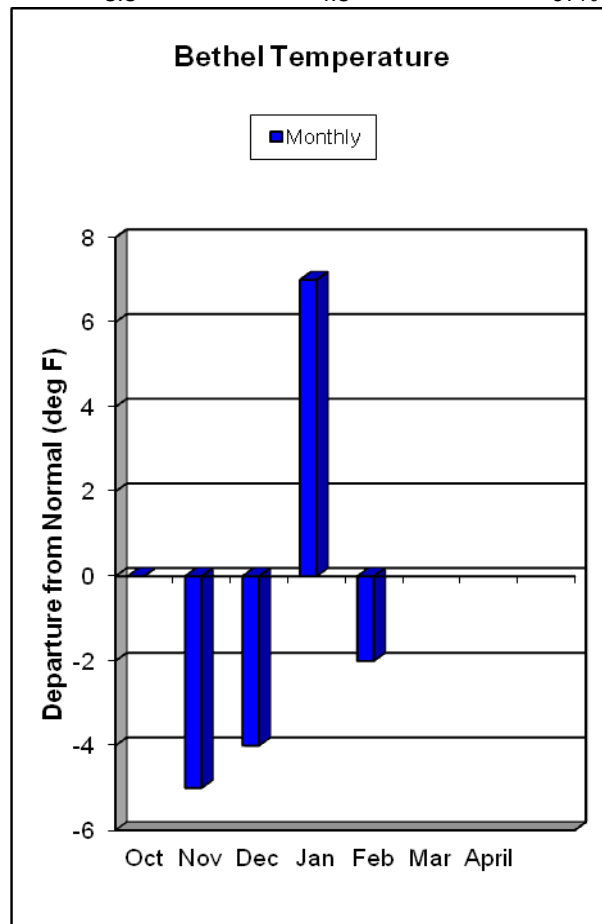
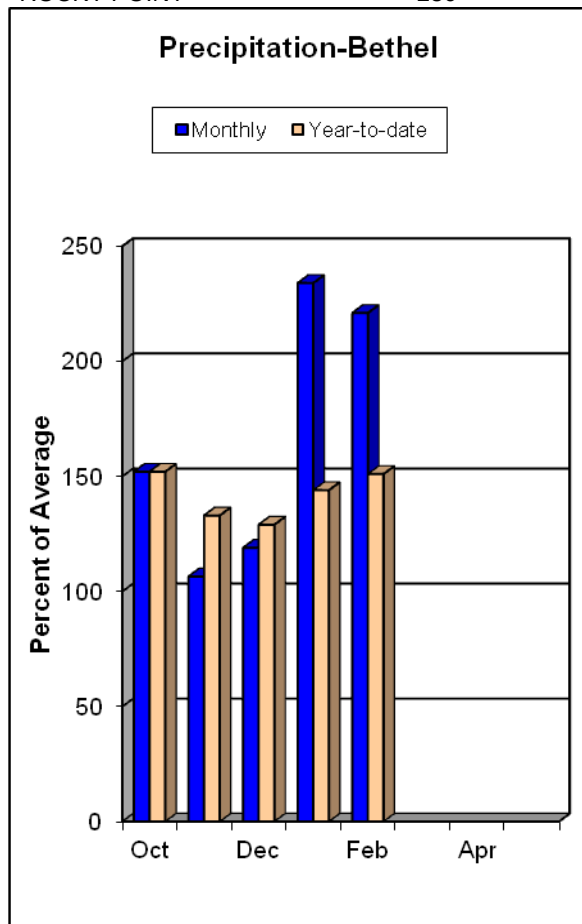
Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Bristol Bay								
BROOKS CAMP	150	2/27/2013	13	2.3	21	5.5	---	---
FISHTRAP LAKE	1800	2/28/2013	33	7.9	---	---	40	9.5
LOWER MULCHANTA	320	3/1/2013	6	1.0*	New Site		---	---
PORT ALSWORTH	270	3/1/2013	12	2.6	---	---	18	3.6
THREE FORKS	900	2/27/2013	9	1.5	26	6.2	---	---
UPPER TWIN LAKES	2000	2/28/2013	16	3	---	8.4*	27	6.4
WEARY LAKE	100	3/1/2013	59	14.7*	New Site		---	---
Norton Sound								
JOHNSON'S CAMP	25	3/1/2013	8	1.4*	31	6.2*	---	---
PARGON CREEK	100	3/1/2013	7	1.2*	---	---	---	---
ROCKY POINT	250	3/1/2013	22	4.0*	---	---	---	---
*Estimate								

*Estimate

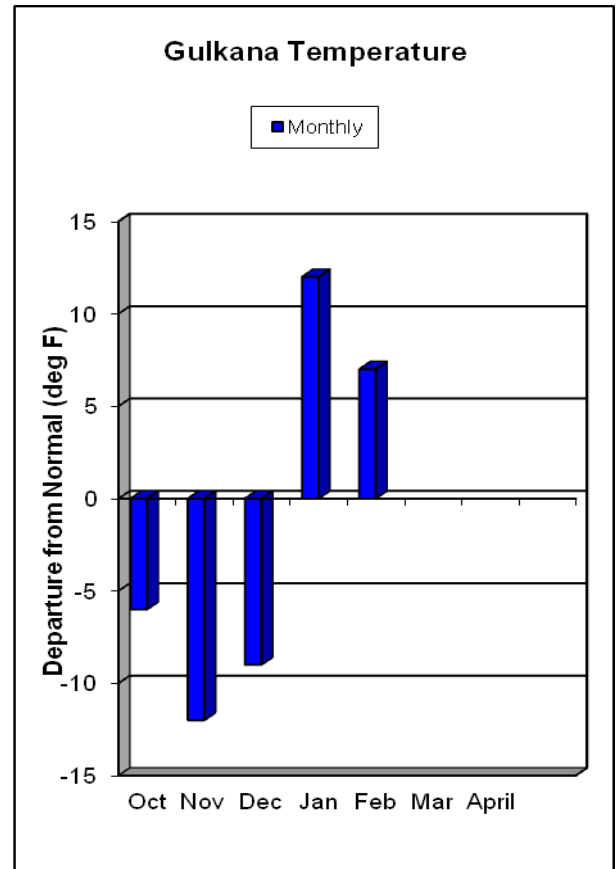
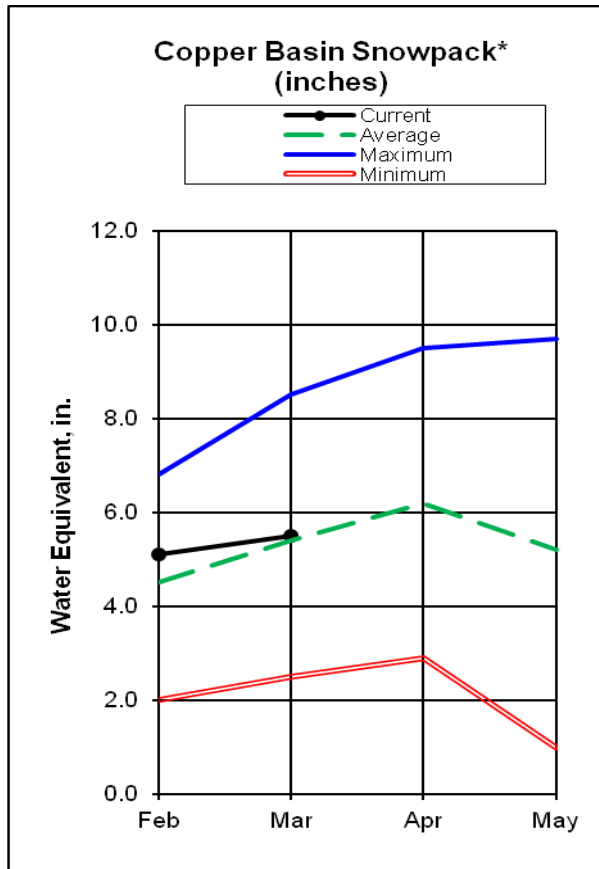
PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
PARGON CREEK	100	4.8	4.8	5.1	94%
ROCKY POINT	250	3.2	3.3	4.8	67%



COPPER BASIN*



Snowcover:

The snowpack in the Copper River Basin changes from north to south. Southern snow courses in the Chugach such as Worthington Glacier and Tsaina River are near 70% of normal. The Wrangell Mountains' sites are also low with the 4 area snow courses averaging 79% of normal.

The western basin floor made gains this month with sites varying from 70% at Little Nelchina to 100% at Lake Louise. The eastern basin floor continues to have more snow as demonstrated at the Chistochina Snow Course which is 113% of normal with 20 inches of snow and 3.6 inches of snow water. Haggard Creek Snow Course along the Richardson Highway is 123% above normal with 31 inches of snow and 6.4 inches of water content. The snowpack continues to be above normal near the Alaska Range. The four snow courses in this region average 132% of normal, ranging from 104% at Monsoon Lake snow course to 137% at Mentasta Pass which has 30 inches of snow depth and 7.0 inches of snow water content.

Copper Basin

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
CHISTOCHINA	1950	3/1/2013	20	3.6	24	4.9	20	3.2
CHOKOSNA	1550	2/27/2013	15	3.3	21	4.9	16	3.2
DADINA LAKE	2160	3/1/2013	23	3.5	43	8	27	5.4
FIELDING LAKE	3000	3/1/2013	46	11.6	50	12	37	8.6
HAGGARD CREEK	2540	3/1/2013	31	6.4	30	6	26	5.2
HORSEPASTURE PASS	4300	3/1/2013	25	4.5	41	8.2	28	5.5
KENNY LAKE SCHOOL	1300	2/26/2013	15	2.5	22	4.7	17	3
LAKE LOUISE	2400	2/26/2013	23	3.8	26	5.2	21	3.8
LITTLE NELCHINA	2650	2/26/2013	20	3.3	28	6.7	24	4.7
LONG GLACIER	4820	No Survey	---	---	28	5.9	---	---
MAY CREEK	1610	3/1/2013	23	4.4	23	4.4	---	4.6
MENTASTA PASS	2430	3/1/2013	30	7	32	7.6	24	5.1
MONSOON LAKE	3100	3/1/2013	28	5.6	36	7.8	28	5.4
MT. EYAK	1405	3/1/2013	93	31.1	108	42.8	---	22.1
NOTCH	2643	No Survey	---	---	18	3.9	---	---
PAXSON	2650	3/1/2013	36	8.8	36	8.2	30	5.9
SANFORD RIVER	2280	3/1/2013	21	3.4	29	5.7	28	5.2
ST. ANNE LAKE	1990	3/1/2013	17	2.7	34	6.6	23	4.2
TAZLINA	1225	2/26/2013	15	2.8	22	4.5	16	3.4
TEBAY LAKE	1930	No Survey	---	---	101	30	---	---
TOLSONA CREEK	200	2/26/2013	18	2.8	25	5.2	20	3.8
TSAINA RIVER	1650	3/2/2013	43	10	69	20	53	14.1
TWIN LAKES	2400	3/1/2013	18	2.7	36	6.8	28	5.6
UPPER TSAINA RIVER	1750	3/1/2013	50	11.9	80	24.5	---	16.3
WORTHINGTON GLACIER	2100	3/2/2013	63	16	108	37.2	69	21.6

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
MAY CREEK	1610	5.8	4.9	5.5	105%
UPPER TSAINA RIVER	1750	17.9	27.0	24.1	74%

STREAMFLOW FORECASTS

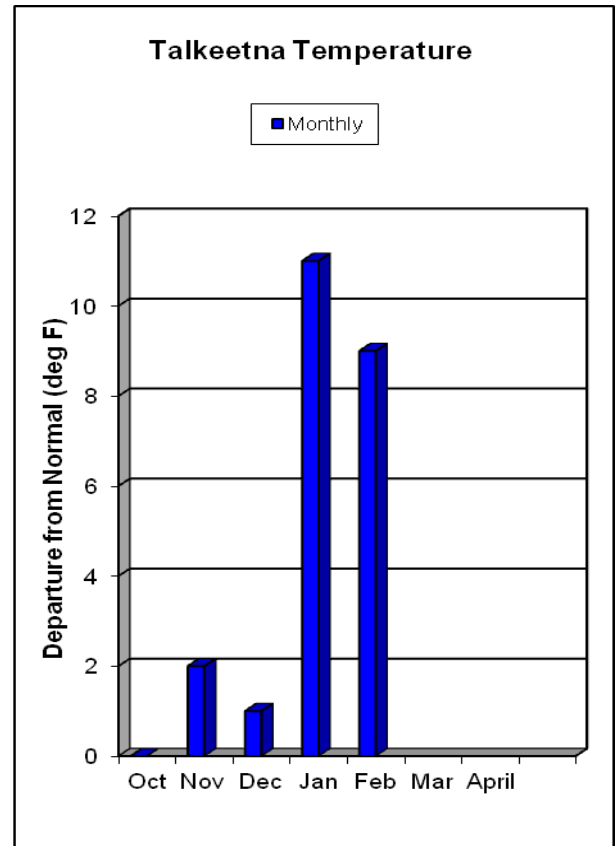
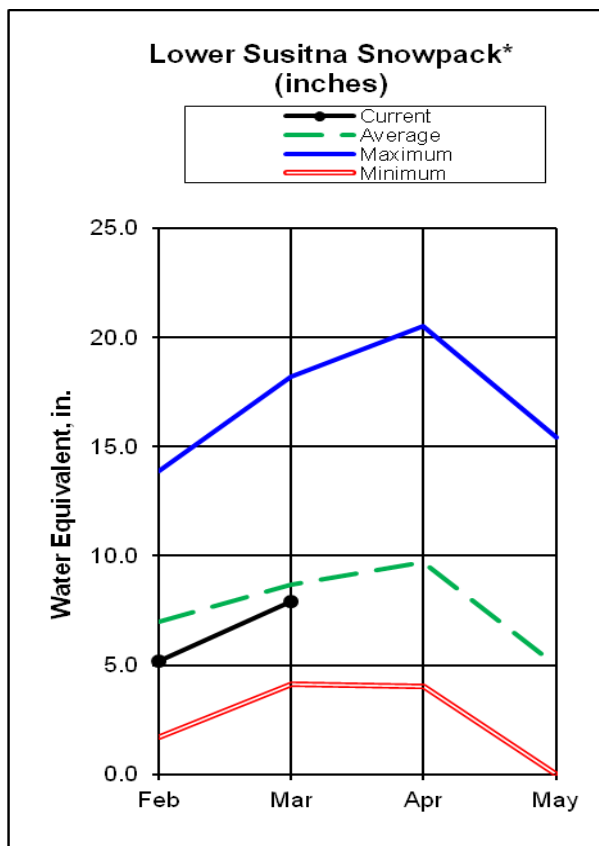
FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Gulkana River at Sourdough	Apr- Jul	440	495	113	113	74

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Alaska Range**	4	93	132
Basin Floor	6	70	94
Chugach Range	6	46	71
Talkeetna Mountains	3	54	83
Wrangell Mountains	4	63	79

**At the foot of the Alaska Range.

MATANUSKA - SUSITNA BASINS*



Snowcover:

The Susitna Basin ranges from below normal on its western side to normal on the eastern side and above normal at the headwaters.

The lower Susitna Basin snow course average 98% of normal. However, sites on the western side are low such as Skwentna with 72% of normal and Alexandar Lake at 84% of normal, which has 40 inches of depth and 9.2 inches of water content.

In the Matanuska Basin, up the Glenn Highway, the Sheep Mountain Snow Course is 73% of Normal. Closer to Palmer, the Hatcher's Pass snow courses are normal. This is displayed at the Independence mine Snow Course which has 64 inches of snow with 19.2 inches of water content, 103% of normal.

The Point MacKenzie SNOTEL site caught 152% of normal precipitation in February bring its total to 8.2 inches of precipitation since October 1st, 114% of normal. The snowpack at the SNOTEL site, with 20 inches of snow depth and 4.5 inches of water content, increased from only 66% of normal last month to 96% of normal this month.

The upper Susitna basin's 10 snow courses average 106% of normal with sites ranging from 82% of normal at Horse Pasture Pass to 135% at Curtis Lake, Upper Sanona and Upper Oeshetna snow courses.

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

Matanuska - Susitna Basins

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
ALEXANDER LAKE	160	2/27/2013	40	9.2	62	14.3	44	11
ARCHANGEL ROAD	230	3/1/2013	49	13.6	60	17.6	42	11.7
BENTALIT LODGE	150	3/1/2013	33	6.7	53	11.8	---	6.9
CHELATNA LAKE	1450	2/27/2013	49	11.8	59	13.8	44	10
CLEARWATER LAKE	2650	3/1/2013	28	5.3	---	---	26	4.7
CURTIS LAKE	2850	3/1/2013	30	5.4	30	5.5	21	4
DENALI VIEW	700	3/1/2013	39	9.9	54	13.4	38	10.9
DUNKLE HILLS	2700	2/27/2013	30	7	33	7.6	---	---
DUTCH HILLS	3100	2/27/2013	43	10.3	90	27.9	74	22.1
E. FORK CHULITNA	1800	3/1/2013	39	9.8	53	14	46	11.2
FISHHOOK BASIN	3300	3/1/2013	58	15.4	75	23.2	53	15.6
FOG LAKES	2120	3/1/2013	25	4.8	31	5.1	22	4.3
HALFWAY SLOUGH	350	3/1/2013	28	6.7	42	9.2	---	---
INDEPENDENCE MINE	3550	3/1/2013	64	19.2	85	27.1	62	18.6
LAKE LOUISE	2400	2/26/2013	23	3.8	26	5.2	21	3.8
LITTLE SUSITNA	1700	3/1/2013	42	10.7	54	14.5	37	9.7
MONAHAN FLAT	2710	3/1/2013	27	---	---	---	33	6.8
NUGGET BENCH	2010	2/27/2013	47	12.7	58	14	48	13.1
RAMSDYKE CREEK	2220	2/27/2013	72	22	81	22	62	18.6
SHEEP MOUNTAIN	2900	2/26/2013	20	3.5	38	9.4	24	4.8
SKWENTNA	160	2/27/2013	34	7.6	59	14.2	42	10.6
SQUARE LAKE	2950	3/1/2013	24	4.2	32	5.2	21	3.5
SUSITNA VALLEY HIGH	375	3/1/2013	30	6.3	48	11.4	---	7.2
TALKEETNA	350	3/1/2013	29	7.2	42	9.2	28	6.2
TOKOSITNA VALLEY	850	3/1/2013	52	13.1	67	16.3	---	10.4
TYONE RIVER	2500	---	---	---	---	---	24	4.4
UPPER OSHETNA RIVER	3150	3/1/2013	27	5.4	36	6.5	20	4
UPPER SANONA CREEK	3100	3/1/2013	33	6.8	39	7.4	27	5
WILLOW AIRSTRIP	200	3/1/2013	31	7.4	53	11.3	27	5.7

**Estimate*

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Little Susitna River near Palmer	Arp-Jul	82	80	98	129	66
Talkeetna River near Talkeetna	Apr-Jull	1570	1500	96	115	78

PRECIPITATION DATA

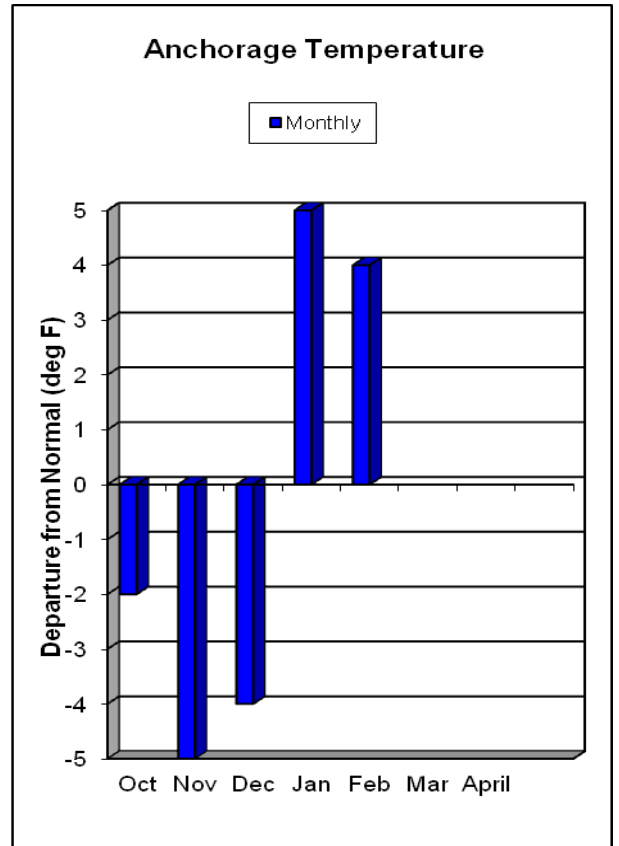
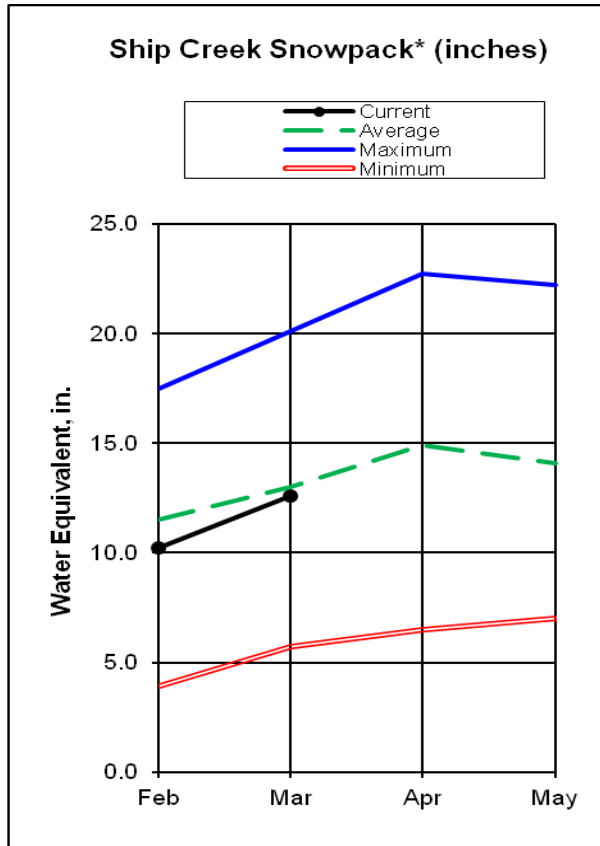
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
INDEPENDENCE MINE	3550	19.2	18.7	13.3	144%
MONAHAN FLAT	2710	7.7	7.2	7.0	110%
SUSITNA VALLEY HIGH	375	10.5	13.0	10.5	100%
TOKOSITNA VALLEY	850	17.1	21.0	17.1	100%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Lower Susitna	8	69	98
Matanuska/Little Susitna	6	67	103
Peters Hills	5	73	91
Upper Susitna	10	79	106

NORTHERN COOK INLET*



Snowcover:

Snow Conditions in Northern Cook Inlet continue to be variable. Several sites are above normal such as at Mt. Alyeska SNOTEL site snow course at 108% of normal with 105 inches of snow depth and 28.7 inches of water content. Conversely, most of the Arctic Valley snow courses are between 70 and 80% of normal and South Fork Campbell Creek Snow Course is 44% of normal with 15 inches of snow depth and 2.7 inches of water content, its fourth lowest March reading in 40 years of record.

North Cook Inlet received above average precipitation during the month of February. Only Moraine SNOTEL, which received 104% of normal for the month, remains below normal for the water year, having received 7.4 inches since October 1st or 74% of normal. Indian Pass SNOTEL has received 28.8 inches of precipitation since October 1st or 131% of normal. Anchorage Hillside SNOTEL measures 12.1 inches for the water year, or 102% of normal after receiving 3.2 inches during the month, 200% of normal.

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

Northern Cook Inlet

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
ANCHORAGE HILLSIDE	2080	3/1/2013	29	7.2	64	18.2	---	8.3
ARCTIC SKI BOWL	3000	3/1/2013	27	7.7	69	25	35	10.8
ARCTIC VALLEY #1	500	3/1/2013	13	4.3	33	7.3	18	4
ARCTIC VALLEY #2	1000	3/1/2013	15	3.6	39	9.5	22	4.5
ARCTIC VALLEY #3	1950	3/1/2013	24	4.7	46	12.4	28	6.7
ARCTIC VALLEY #4	2130	3/1/2013	23	5.1	45	11.7	28	6.4
CHUITNA PLATEAU	1540	2/27/2013	57	13.7	64	20	69	25.8
CONGAHBUNA LAKE	500	2/27/2013	40	9.4	63	13.5	34	9
GRANITE POINT	250	2/27/2013	17	3.9	40	9.5	20	4.7
INDIAN PASS	2350	3/1/2013	78	20.1	90	28.5	---	19.3
KINKAID PARK	100	3/1/2013	16	3.8	35	7.9	17	3.9
LONE RIDGE	1675	No Survey	---	---	86	27	76	29
MORAINE	2100	3/1/2013	23	4.8	45	13	---	6.8
MT. ALYESKA	1540	3/1/2013	105	28.7	111	34.2	---	26.6
POINT MACKENZIE	250	3/1/2013	20	4.5	36	8.9	---	4.7
PORTAGE VALLEY	50	2/28/2013	45	12.8	96	32	36	11
SOUTH CAMPBELL CREEK	1200	2/26/2013	15	2.7	35	8.2	24	5.8

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Ship Creek near Anchorage	Apr- Jul	58	62	107	131	87

PRECIPITATION DATA

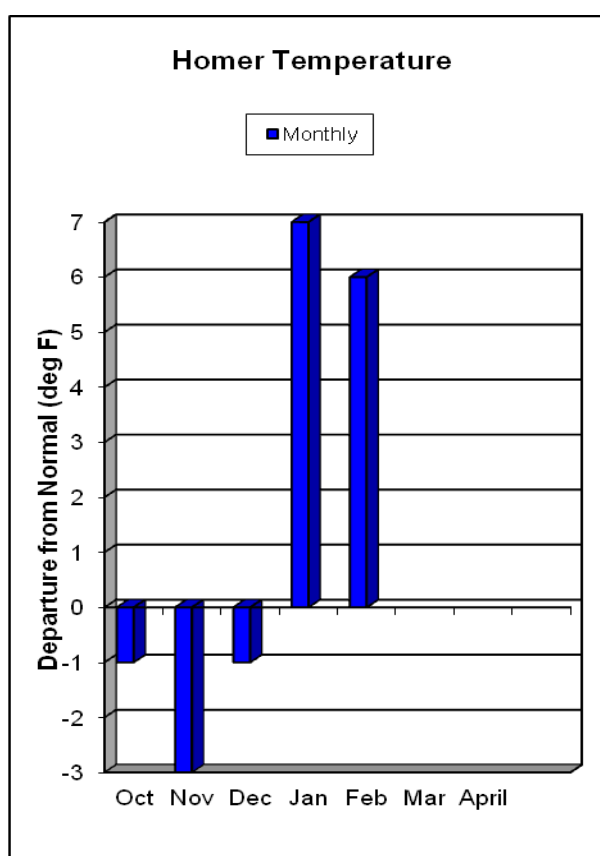
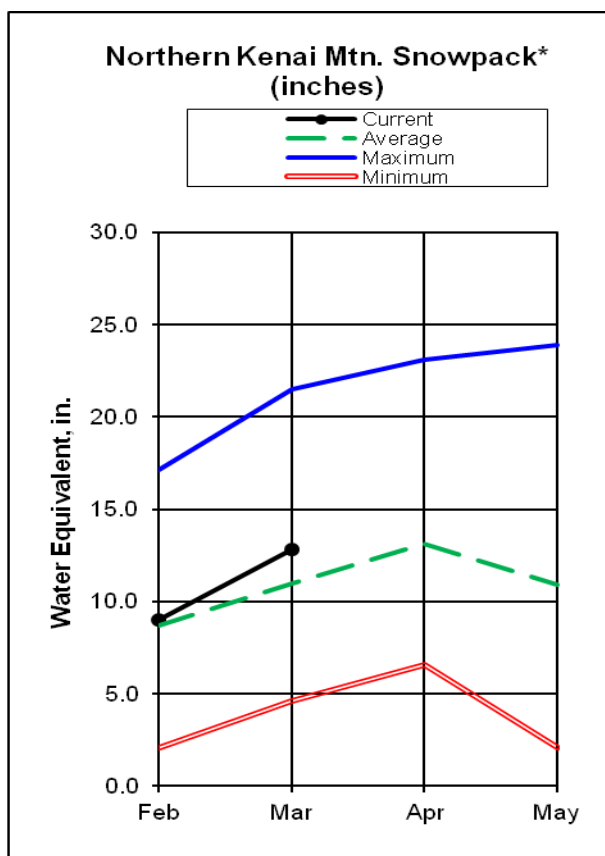
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
ANCHORAGE HILLSIDE	2080	12.1	20.6	11.9	102%
INDIAN PASS	2350	28.8	33.2	22.0	131%
MORAINE	2100	7.4	16.3	10.1	73%
MT. ALYESKA	1540	34.5	43.9	39.9	86%
POINT MACKENZIE	250	8.2	10.3	7.2	114%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Beluga	3	63	68
Campbell Creek	3	42	76
Ship Creek	8	46	86
Turnagain Arm	3	65	104

KENAI PENINSULA*



Snowcover:

The Northern Kenai Mountains' 10 snow courses average 106% of normal. These range from 79% of normal at Snug Harbor Snow Course to 135% of normal at Moose Pass. Turnagain Pass SNOTEL has 113 inches of snow with 26.7 inches of water content, which is 96% of normal.

The snow pack near Homer and north is above normal, ranging from 114% of normal at Bridge Creek snow course to 132% of normal at the Demonstration Forest snow course just west of Homer. Anchor River Divide SNOTEL site had both 131% of normal snow pack with 47 inches of snow and 13.2 inches of water content, and 120% of normal precipitation since October 1st or 17.3 inches.

South across Kachemak Bay, the snowpack is lower, but higher than last month. The Nuka Glacier SNOTEL site, near Bradley Lake has a 98 inch deep snowpack with an estimated 26.8 inches of water content, which is 93 percent of normal. However Nuka Glacier has only caught 70 percent of normal precipitation for the Water Year, 33.6 inches.

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

Kenai Peninsula

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
ANCHOR RIVER DIVIDE	1653	3/1/2013	47	13.2	64	15.6	---	10.1
BERTHA CREEK	950	2/28/2013	68	16.5	109	22.8	47	14.7
BRIDGE CREEK	1300	3/1/2013	40	10.9	54	15.1	34	9.6
COOPER LAKE	1200	3/1/2013	53	13.6	71	20.8	---	13.1
DEMONSTRATION FOREST	780	3/1/2013	29	8.7	56	15.2	23	6.6
EAGLE LAKE	1400	3/1/2013	47	12.1	63	16.2	40	10.4
GRANDVIEW	1100	3/1/2013	109	29.3	102	31.6	---	26.5
GROUSE CREEK DIVIDE	700	3/1/2013	54	17.3	89	25	---	14.6
JEAN LAKE	620	2/28/2013	14	3.1	38	7	14	3.2
KACHEMAK CREEK	1660	3/1/2013	54	15.1*	---	---	---	---
KENAI MOOSE PENS	300	3/1/2013	18	3.8	32	6.8	---	4
KENAI SUMMIT	1390	2/28/2013	59	13.9	65	18.7	45	12.3
MCNEIL CANYON	1320	3/1/2013	37	10.5	57	15.7	---	9
MOOSE PASS	700	2/28/2013	32	8.1	58	15.6	20	6
NUKA GLACIER	1250	3/1/2013	98	26.8*	---	---	74	28.8
PORT GRAHAM	300	3/1/2013	37	8.2	49	16.8	---	6.7
SNUG HARBOR ROAD	500	2/28/2013	17	4.1	36	9.1	17	5.2
SUMMIT CREEK	1400	3/1/2013	42	10.3	63	17.7	---	10
TURNAGAIN PASS	1880	3/1/2013	113	26.7	126	40.3	---	27.9

*Estimate

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Kenai River at Cooper Landing	Apr-Jul	960	960	100	114	87

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

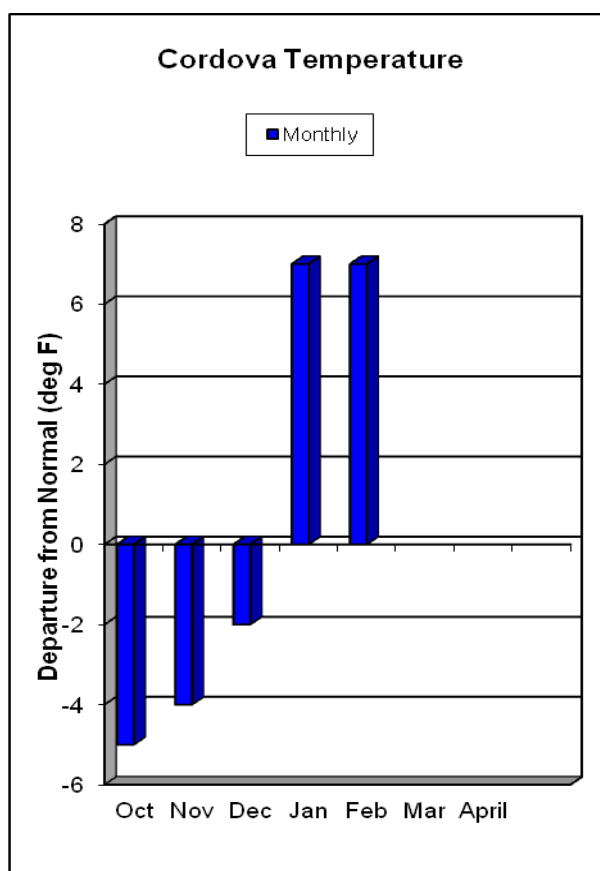
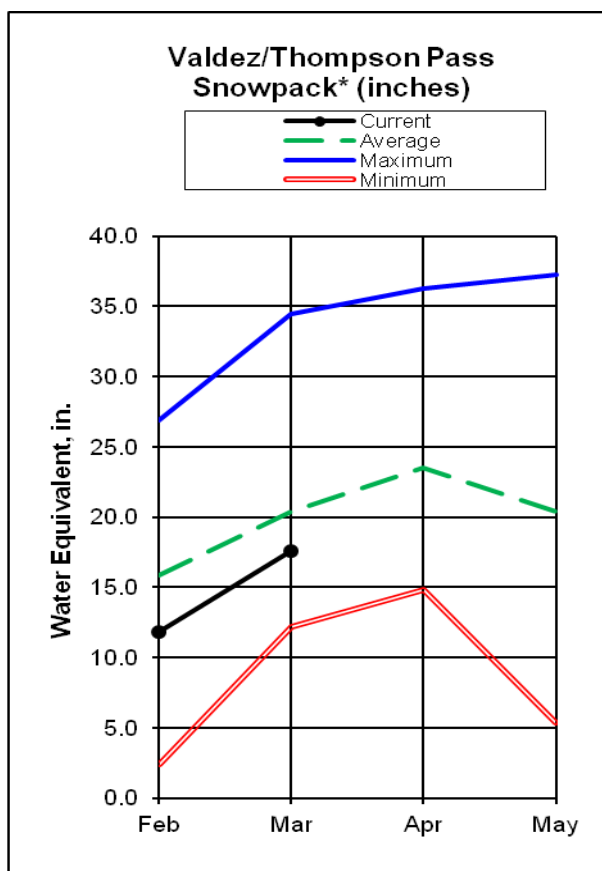
Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
ANCHOR RIVER DIVIDE	1653	17.3	19.0	14.4	120%
COOPER LAKE	1200	17.2	26.9	22.9	75%
GRANDVIEW	1100	27.8	43.8	34.8	80%
GROUSE CREEK DIVIDE	700	23.6	38.7	33.3	71%
KACHEMAK CREEK	1660	25.3	41.0	34.7	73%
KENAI MOOSE PENS	300	8.0	8.8	7.3	110%
MCNEIL CANYON	1320	13.4	15.5	14.9	90%
MIDDLE FORK BRADLEY	2300	17.5	35.3	29.0	60%
NUKA GLACIER	1250	33.6	44.8	48.2	70%
PORT GRAHAM	300	32.5	45.4	43.5	75%
SUMMIT CREEK	1400	14.2	27.1	14.0	101%
TURNAGAIN PASS	1880	30.4	42.2	34.3	89%

*Estimate

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Bradley Lake/Southern Kenai	2	49	122
Ninilchik Dome	5	71	121
Northern Kenai Flats	1	52	95
Northern Kenai Mountains	10	69	106

WESTERN GULF*



Snowcover:

The Western Gulf of Alaska area has slightly above normal snowpack conditions. Mt. Eyak SNOTEL, above Cordova, has 93 inches of snow with 31.1 inches of water content. The Valdez snow course is 121% of normal with 56 inches of snow and 17.0 inches of water content. Further west, the Exit Glacier SNOTEL site has 58 inches of snow with 14.5 inches of water content which is 94% of normal.

The Sugarloaf SNOTEL site, across from Valdez, has only caught 29.8 inches of precipitation since October 1st, around 86% of normal. On the northwestern side of Prince William Sound, Esther Island SNOTEL site has similarly caught only 83% of normal precipitation, 59.6 inches.

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

Western Gulf

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
EXIT GLACIER	400	3/1/2013	58	14.5	84	25.9	---	15.9
GROUSE CREEK DIVIDE	700	3/1/2013	54	17.3	89	25.0	---	14.6
LOWE RIVER	600	3/2/2013	53	16.0	79	24.0	50	14.8
MT. EYAK	1405	3/1/2013	93	31.1	108	42.8	---	22.1
NUKA GLACIER	1250	3/1/2013	98	26.8	---	---	74	28.8
SUGARLOAF MOUNTAIN	525	2/28/2013	76	21.2	120	40.2	70	21.1
TSAINA RIVER	1650	3/2/2013	43	10.0	69	20.0	53	14.1
UPPER TSAINA RIVER	1750	3/1/2013	50	11.9	80	24.5	---	16.3
VALDEZ	50	3/2/2013	56	17.0	89	26.0	46	14
WORTHINGTON GLACIER	2100	3/2/2013	63	16.0	108	37.2	69	21.6

**Estimate*

PRECIPITATION DATA

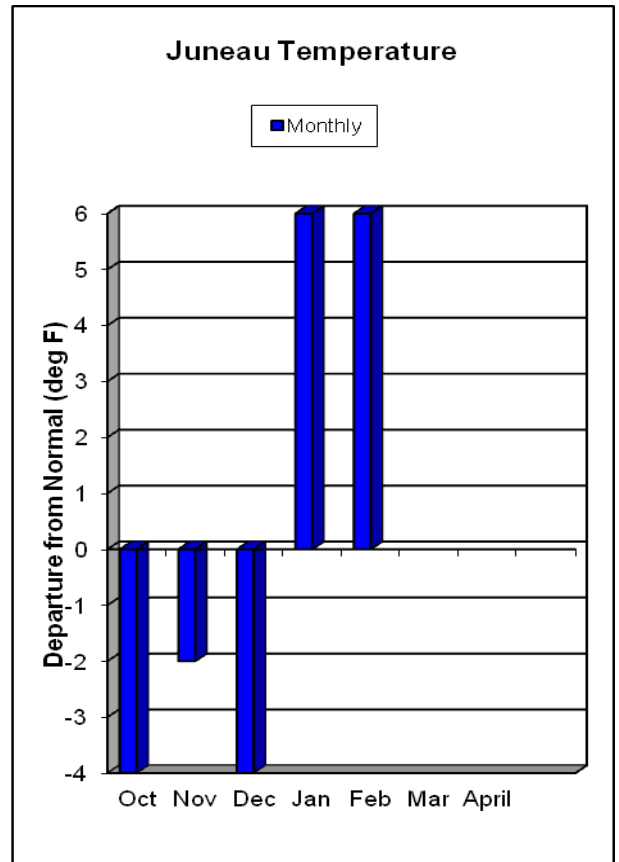
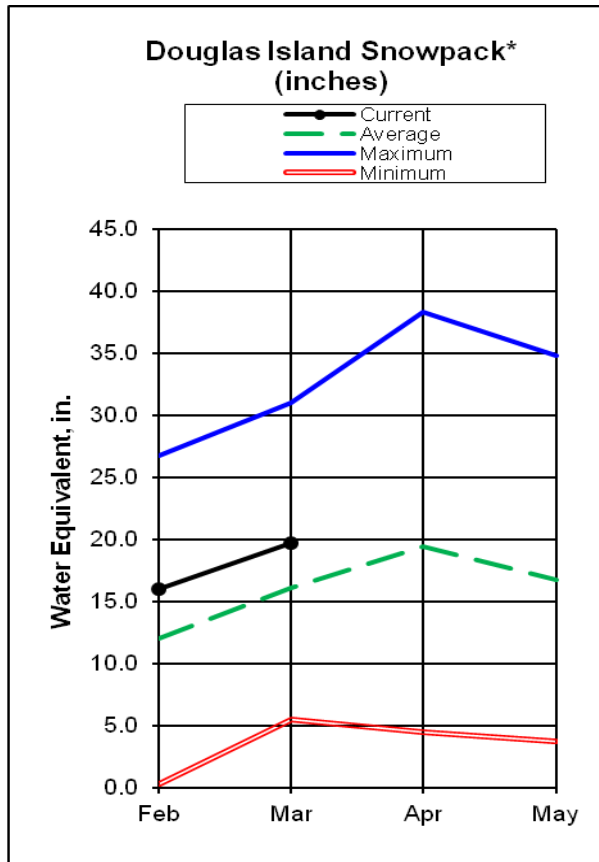
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
ESTHER ISLAND	50	59.6	92.2	71.9	83%
GROUSE CREEK DIVIDE	700	23.6	38.7	33.3	71%
MT. EYAK	1405	56.2	73.3	---	---
NUKA GLACIER	1250	33.6	44.8	48.2	70%
PORT SAN JUAN	50	58.2	75.8	66.0	88%
SEAL ISLAND	20	No Report	No Report	---	---
STRAWBERRY REEF	30	No Report	49.8	---	---
SUGARLOAF MTN	550	29.8	59.2	34.5	86%
TATITLEK	50	37.6	48.4	35.7	105%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Lowe River (Valdez)	5	60	108
Eyak Lake	1	73	141

Southeast



Snowcover:

Southeast Alaska continues to have above normal snowpack, anchored mainly by higher elevation areas like Cropley Lake which has 98 inches of snow with 33.0 inches of water content and Petersburg Ridge with 87 inches of snow with 28.9 inches of water content, both around 140% of Normal. However, February rains and above average temperatures diminished lower elevation snow packs in Southeast. Petersburg Reservoir at 550 feet elevation went from 151% of normal with 5.3 inches of water content last month to 4.8 inches of water content this month, which is still slightly above normal. Rainbow Falls snow course at 500 feet of elevation near Wrangell, melted out this month after having had 9 inches of snow with 2.8 inches of water content last month.

Long Lake SNOTEL site has 109 inches of snow with 40.2 inches of water content which is 148% of normal. However the precipitation gauge at the site has only caught 88% of normal precipitation since October 1st or 75.5 inches. Similarly, the Moore Creek Bridge SNOTEL site, between Skagway and White Pass, has only received 89% of normal precipitation, but has 111% of normal snowpack

SOUTHEAST

SNOWPACK DATA

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
CROPLEY LAKE	1650	2/27/2013	98	33.0	144	46.0	71	23.1
EAGLE CREST	1000	2/27/2013	75	23.4	114	34.4	45	16.5
INSTITUTE CREEK	1350	2/28/2013	66	20.2	96	33.2	---	---
LONG LAKE	850	3/1/2013	109	40.2	139	44.7	---	27.2
MOORE CREEK BRIDGE	2250	2/28/2013	69	21.0	67	20.8	64	18.9
PETERSBURG RESERVOIR	550	2/28/2013	22	4.8	55	17.2	18	4
PETERSBURG RIDGE, S.	1650	2/27/2013	87	28.9	130	46.1	65	21.4
RAINBOW FALLS	500	2/28/2013	0	0.0	16	4.1	---	---
SPEEL RIVER	280	3/4/2013	72	28.8	110	36.8	68	23.7
WEST CREEK	475	3/1/2013	36	11.0	44	12.5	---	---

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Gold Creek near Juneau	Apr-Jul	34	37	109	135	82

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

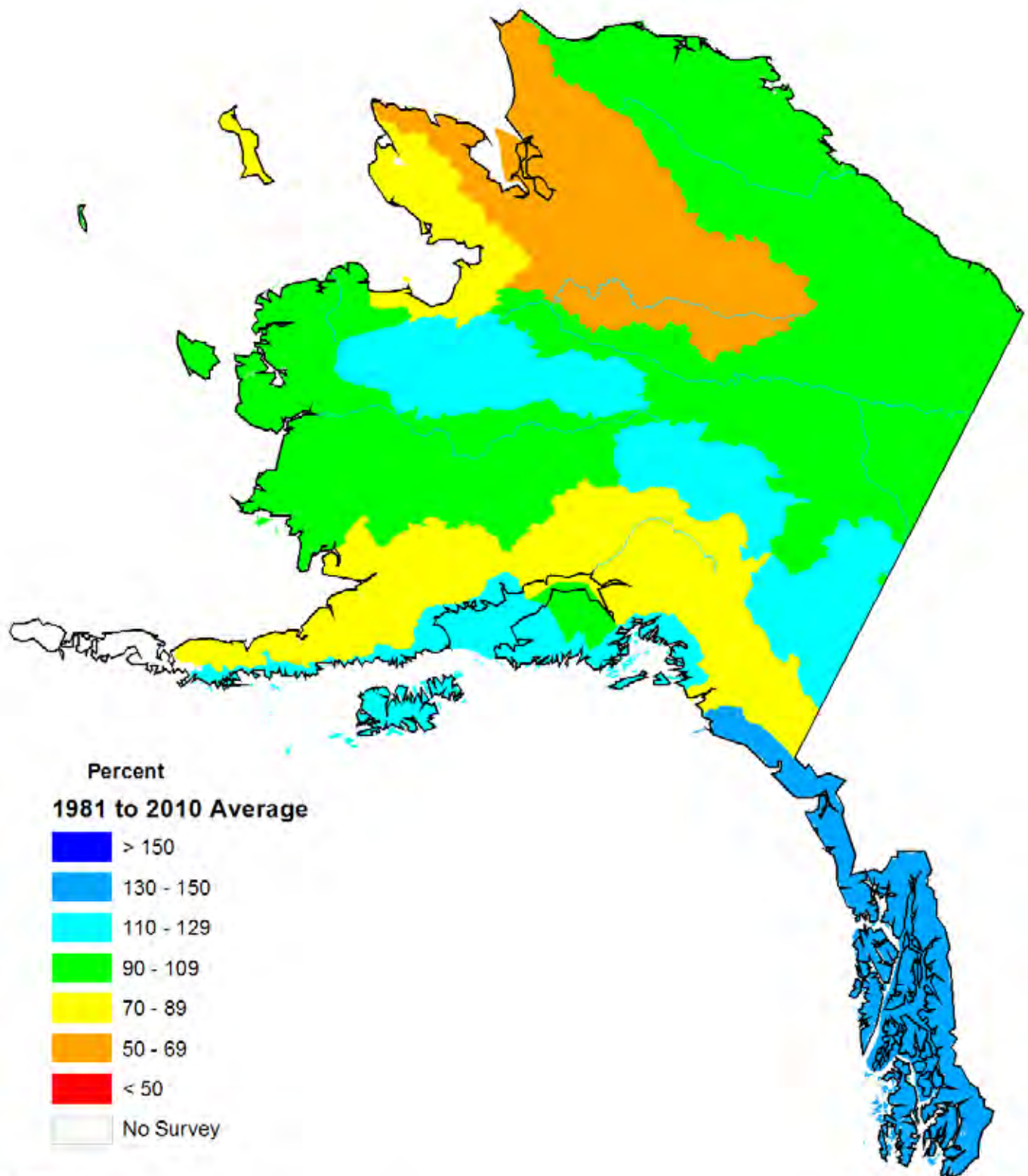
Site Name	Elev.	This Year	Last Year	1981-2010 Average	% of Average
LONG LAKE	850	75.5	96.1	85.9	88%
MOORE CREEK BRIDGE	2250	21.2	29.0	23.7	89%
SNETTISHAM	25	80.6	131.0	90.4	89%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Douglas Island	3	65	128
Petersburg	2	53	133
Skagway	2	96	111
Snettisham	2	78	136

Alaska Snowpack

March 1, 2013



Prepared by
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For further information contact:

NRCS Alaska web site: www.ak.nrcs.usda.gov/snow/

NRCS Water and Climate Center web site: <http://www.wcc.nrcs.usda.gov/>

Alaska Meteor Burst Communication System (AMBCS) web site: www.ambcs.org

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Alaska Snow Survey Report

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NRCS

United States Department of Agriculture
Natural Resources Conservation Service