

Alaska Snow Survey Report



Spring seems distant as NRCS snow surveyor Ryan Maroney takes notes at Cleary Summit Snow Course, northeast of Fairbanks. April's below normal temperatures delayed snowmelt. In many places across the state, snowpacks gained in both depth and water content. Cleary Summit Snow Course gained 3" of snow depth and 1.0" of water content during April.

Photo by NRCS Conservationist Jon Oestreich

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Alaska Snow Survey

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General Overview

Snowpack

Cold April temperatures and increased precipitation brought gains to much of the state's snowpack. Most of the state has snowpacks which are above to much above normal. Mostly, the only parts of the state which saw melting during April were low elevation sites in Southeast, in the Kuskokwim, and in Southcentral.

Several storms during April dramatically increased the snowpack in the Arctic. Imnaviat Creek SNOTEL increased 17" to make a 44" deep snowpack. Likewise, the Tanana Valley and higher elevation sites in Southeast saw considerable inputs into their snowpacks. The Upper Yukon basin saw similar inputs and is much above average with several snow courses setting both May 1st and site records.

The Koyukuk and Kotzebue Sound regions saw modest increases to the snowpack through small storm events. These areas are still below normal, but not as severely as before.

The Susitna Valley and Kenai Peninsula have both above normal snowpacks, but only because the cold area temperatures have delayed meltout.

Precipitation

Precipitation was variable across the state during April. Southeast Alaska, the Arctic, and most of the Interior received above normal precipitation. North Cook Inlet was near normal. Areas which received below normal precipitation include the Western Gulf of Alaska, the Kenai Peninsula, the Susitna Valley, the Y-K Delta, Norton Sound and the Koyukuk Valley.

In Southeast, Moore Creek Bridge captured 3.9" and Long Lake SNOTEL 13.5" of precipitation which is nearly double normal precipitation for April. However both sites remain near 90% for the water year. Likewise, SNOTEL sites in the Arctic received more than double normal precipitation for the month, however in this dry region that amounts to 0.8" at Imnaviat SNOTEL, 1.7" at Prudhoe Bay SNOTEL, and 0.9" at Sagwon SNOTEL. They are all near normal for the water year. The Interior was more variable with a couple of sites in the White Mountains near or below normal and most of the rest between nearer 150% of normal.

Temperature

The cold spell which began in March continued into April. Most of the state had below normal temperatures during April. Southeast and the Interior experienced more pronounced depressed temperatures while temperatures in Southcentral were more moderated. Fairbanks had a -11°F departure from Normal while both Gulkana and Juneau had -8°F departures. Bettles, Bethel and Whitehorse were all 7°F below normal for the month and Fort Yukon had a -6°F departure. In Southcentral, Talkeetna was 5° below normal and both Cordova and Homer were 3°F below normal for the month. Anchorage had a -2°F departure from normal for April.

In contrast, the Arctic remains above normal. Barrow was 4°F above normal for April and has not been below normal this winter. Nome also experienced its second month with at or near normal temperatures.

STREAMFLOW

Streamflow forecasts of snowmelt runoff are as follows:

FORECAST POINT*	Percent of Normal Flow	Period
Yukon River at Eagle	115	May - July
Porcupine River nr Int'l Boundary.....	116	May - July
Yukon River near Stevens Village	115	May - July
Tanana River at Fairbanks	116	May - July
Tanana River at Nenana.....	117	May - July
Little Chena River near Fairbanks	119	May - July
Chena River near Two Rivers.....	124	May - July
Salcha near Salchaket.....	139	May - July
Sagvanirktok River near Pump Station 3.....	120	May - July
Kuparuk River near Deadhorse	120	May - July
Kuskokwim River at Crooked Creek	123	May - June
Gulkana River at Sourdough	139	May - July
Little Susitna River near Palmer	118	May - July
Talkeetna River near Talkeetna.....	110	May - July
Ship Creek near Anchorage	102	May - July
Kenai River at Cooper Landing.....	109	May - July
Gold Creek near Juneau.....	119	May - July

SNOWMELT RUNOFF INDEX (SRI)

For streams that no longer have stream gauging stations.

FORECAST POINT	INDEX	Index	Key:
Koyukuk River at Hughes	-1.2	-2 to -3	much below average snowmelt runoff
MF Koyukuk R near Wiseman	-1.4		
Slate Creek at Coldfoot.....	-0.4		
Beaver Creek above Victoria Creek.....	0.0	-1 to -2	below average snowmelt runoff
Birch Creek below South Fork	+0.3		
Caribou Creek at Chatanika.....	-0.2		
Susitna River near Gold Creek	+1.5		
Chulitna River near Talkeetna.....	-1.7	-1 to +1	average snowmelt runoff
Deshka River at mouth near Willow	+0.5		
Montana Creek at Parks Highway.....	+1.0		
Willow Creek near Willow	+2.0		
Skwentna River at Skwentna	-1.6	+1 to +2	above average snowmelt runoff
Chuitna River near Tyonek	-0.8		
Campbell Creek near Spenard.....	-1.1		
Indian Creek at Indian.....	-1.0		
Bird Creek at Bird Creek	-1.0	+2 to +3	much above average snowmelt runoff
Glacier Creek nr Girdwood	-0.5		
Six Mile Creek near Hope	+1.0		
Resurrection Creek near Hope	+2.0		
Grouse Ck at Grouse Lake Outlet nr Seward	+1.5		
Anchor River near Anchor Point.....	-0.3		
Deep Creek near Ninilchik	-0.4		
Ninilchik River near Ninilchik.....	-0.3		
Fritz Creek near Homer.....	0.0		
Skagway River at Skagway	+2.7		
Municipal Watershed C nr Petersburg	+1.7		

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

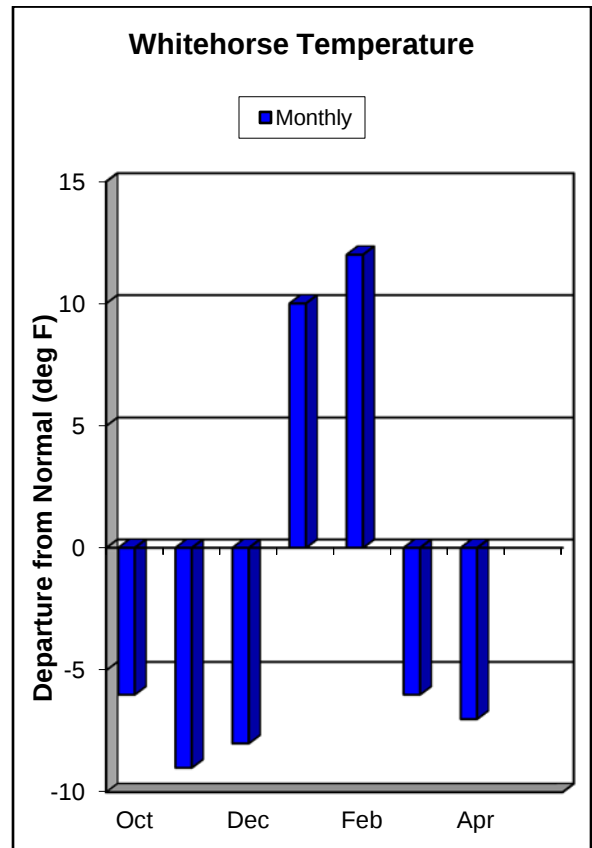
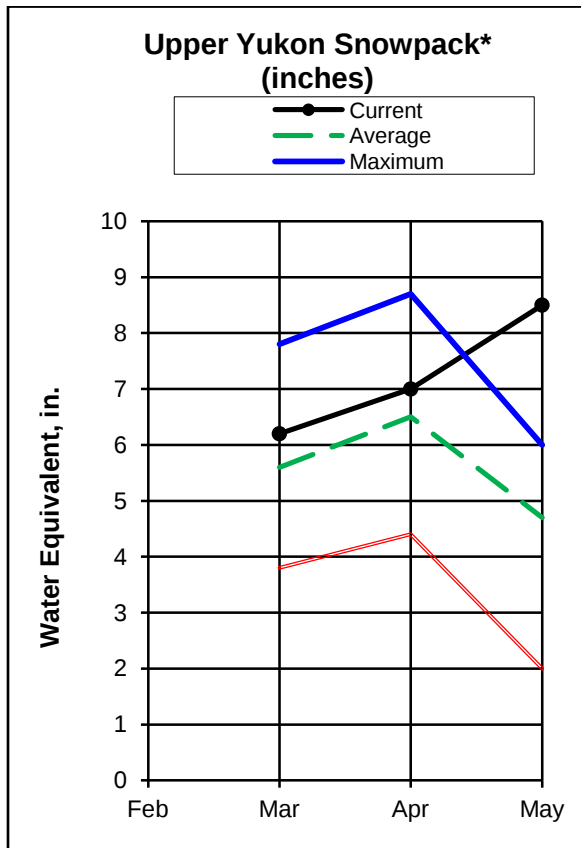
HOW FORECASTS ARE MADE

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

UPPER YUKON BASIN*



Snow Course:

The Upper Yukon Basin snowpack remains above normal to much above normal. Colder than normal April temperatures combined with new snow produced several new record snowpacks. This is particularly true in the Stewart/Pelly area and near Dawson.

In the Dawson area, two sites set new records. King Solomon Dome snow course, established in 1975, set a May 1 record with 37" of snow and 8.7" of water content. Midnight Dome, also established in 1975, set a site record with 40" of snow with 10.0" of water content, 0.6" more than last month.

This trend continued southeast of Dawson to the Stewart/Pelly basins where two new records were set. Pelly River snow course, established in 1983, set a May 1 record with 17" of snow and 3.5" of water content. Hoole River snow course set a site record with 41" of snow and 10.4" of water content; the record started in 1977. Mayo Airport recorded its wettest snow pack since 1974, with 16" of depth and 4.00" of water content.

The Porcupine River basin snowpack was above normal but only 94% of last year's snowpack. The White River basin's snowpack was much above normal as was the Whitehorse area, though less so. The Whitehorse Airport snow course, which began in 1965, had 17" of snow and 4.9" of water content which was 0.2" below the 1985 record of 21" and 4.9".

* 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
ATLIN	2395	5/1/2013	24	5	0	0	5	1.5
BEAVER CREEK	2150	4/25/2013	18	4.1	4	1.3	5	1.3
BURNS LAKE	3650	4/29/2013	44	11.3	40	11.3	26	8.4
BURWASH AIRSTRIP	2660	4/25/2013	13	2.3	0	0	1	0.3
CALUMET	4300	4/29/2013	30	7.6	36	9.3	32	7.7
CASINO CREEK	3495	4/29/2013	32	5	26	7	19	4.6
CHAIR MOUNTAIN	3500	4/26/2013	25	4.9	0	0	5	1.4
EAGLE PLAINS	2330	4/30/2013	30	5.1	24	5.9	19	5.0
EAGLE RIVER	1115	4/30/2013	25	5	23	5.2	15	3.8
EDWARDS LAKE	2720	4/29/2013	32	7.1	34	9.1	22	6.1
FINLAYSON AIRSTRIP	3240	4/30/2013	32	7.3	9	2.8	9	2.8
FULLER LAKE	3695	4/29/2013	38	9.3	35	9.8	29	8.1
GRIZZLY CREEK	3200	5/1/2013	34	7.3	0	0	18	4.7
HOOLE RIVER	3400	4/30/2013	41	10.4	21	6.1	13	3.6
JORDAN LAKE	3050	4/30/2013	31	6.6	21	4.8	13	3.5
KING SOLOMON DOME	3540	4/26/2013	37	8.7	18	5.2	16	4.2
LOG CABIN (B.C.)	2900	4/30/2013	58	19.5	50	22.5	39	15.1
MACINTOSH	3805	4/29/2013	31	5.1	0	0	8	1.9
MAYO AIRPORT	1770	4/29/2013	16	4	0	0	2	0.7
MEADOW CREEK	4050	4/30/2013	61	14.5	45	15.4	39	11.1
MIDNIGHT DOME	2805	5/1/2013	40	10	24	6.5	20	5.1
MONTANA MTN.	3350	4/25/2013	40	7.6			18	4.7
MORLEY LAKE	2700	4/29/2013	35	8.6	15	4	11	3.4
MT. BERDOE	3395	4/29/2013	31	5.8	18	5.2	11	2.5
MT. MCINTYRE B	3600	4/30/2013	37	8.3	31	8.9	20	5.3
MT. NANSEN	3350	4/29/2013	24	4.1			3	0.7
OLD CROW	980	4/26/2013	21	5.2	20	5.1	15	3.4
PELLY FARM	1550	5/1/2013	17	3.5	5	1.3	2	0.6
PLATA AIRSTRIP	2725	4/29/2013	34	8.7	26	8.9	19	5.9
RACKLA LAKE	3410	4/29/2013	31	6.7	36	9.8	30	8.1
RIFFS RIDGE	2130	4/30/2013	32	5.4	22	5.8	18	4.5
RUSSELL LAKE	3480	4/29/2013	41	9.8	39	12.4	27	7.9
SATASHA LAKE	3630	4/29/2013	24	4.5			7	1.8
SUMMIT	985	4/26/2013	32	6.8	32	11.6	23	6.6
TAGISH	3540	4/25/2013	42	9.9	18	5	18	4.8
TWIN CREEKS	2950	4/29/2013	39	10.1	25	8.2	20	5.9
WHITEHORSE AIRPORT	2300	4/30/2013	21	4.7	12	3.7	3	0.9
WILLIAMS CREEK	3000	4/29/2013	26	4.8			8	2.0
WITHERS LAKE	3200	4/29/2013	33	8	38	12.2	31	9.2

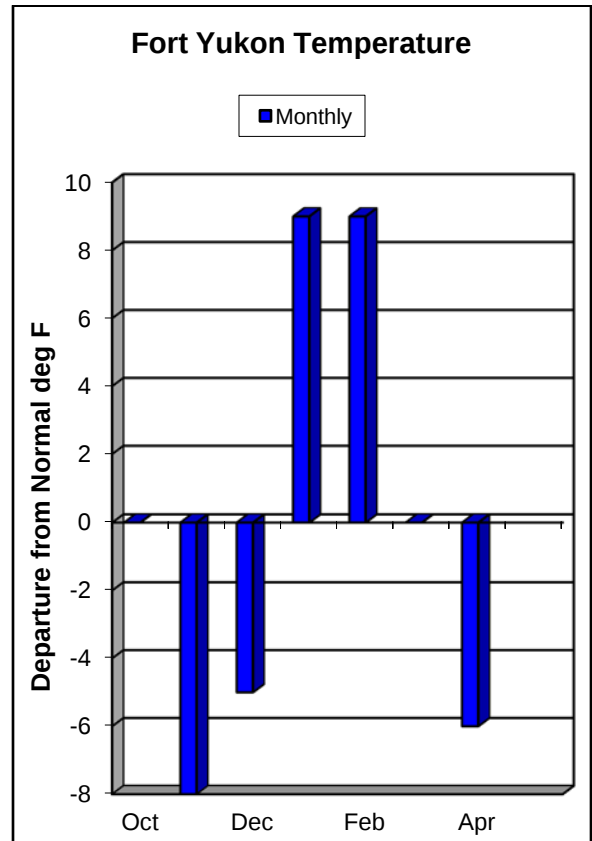
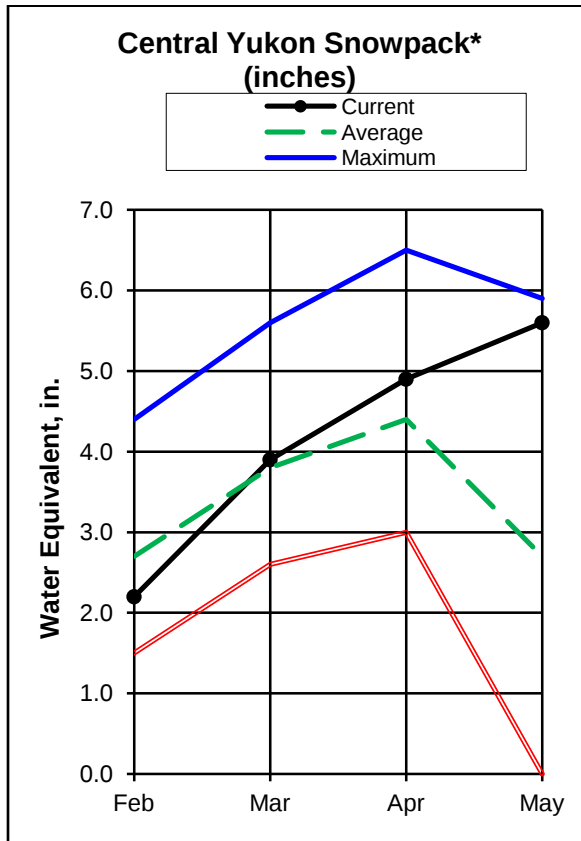
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Yukon River At Eagle	May- Jul	32000	36800	115	127	104

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Above Whitehorse/ Tetlin	10	120	185
Dawson	3	222	190
Stewart/ Pelly	12	100	138
Porcupine River	4	94	124
White River	7	201	245

CENTRAL YUKON BASIN*



Snowcover:

The Central Yukon Basin snowpack is above normal. The ten of the eleven snow courses measured this month gained water content during April. The Fort Yukon SNOTEL site gained 0.5" of precipitation and 5" of snow during April.

Along the Dalton Highway, just north of the Yukon River, the Seven Mile snow course recorded its sixth highest May 1 snowpack since 1971 with 24" of snow and 5.8" of water content. Hess Creek snow course measured its 5th highest May snow pack since 1981 with 24" of snow and 5.4" of water content.

American Creek SNOTEL site, outside of Eagle, gained 0.7" of precipitation during April and has 21" of snow.

The upper Porcupine River valley in the Yukon Territory is above normal, but has less than last year's snowpack. Eagle Plains snow course has 30" of snow with 5.1" of water content.

* 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	5/1/2013	21	3.6	6	1.5	---	---
CATHEDRAL CREEK	800	4/28/2013	27	7.4	---	---	---	---
COAL CREEK	1000	4/28/2013	21	4.4	---	---	---	---
COPPER CREEK	2000	4/28/2013	26	5.2	2	0.7	---	---
CRESCENT CREEK	600	4/28/2013	22	5.4	3	1.1	---	---
EAGLE PLAINS	2330	4/30/2013	30	5.1	24	5.9	19	5.0
EAGLE RIVER	1115	4/30/2013	25	5.0	23	5.2	15	3.8
HESS CREEK	1000	4/30/2013	24	5.4	16	4.2	10	2.6
OLD CROW	980	4/26/2013	21	5.2	20	5.1	15	3.4
RIFFS RIDGE	2130	4/30/2013	32	5.4	22	5.8	18	4.5
SEVEN MILE	600	4/30/2013	24	5.8	10	3.4	12	3.4
STEP MOUNTAIN	850	4/28/2013	29	7.4	---	---	---	---
THIRTY MILE	1350	4/30/2013	26	6.2	17	6.3	28	6.6
UPPER NOME CREEK	2520	5/1/2013	25	---	0	0.0	---	---

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Porcupine River near Intl Boundary	May-Jul	5600	6500	116	169	79
Yukon River near Stevens Village	May- Jul	46800	53800	115	128	101

PRECIPITATION DATA

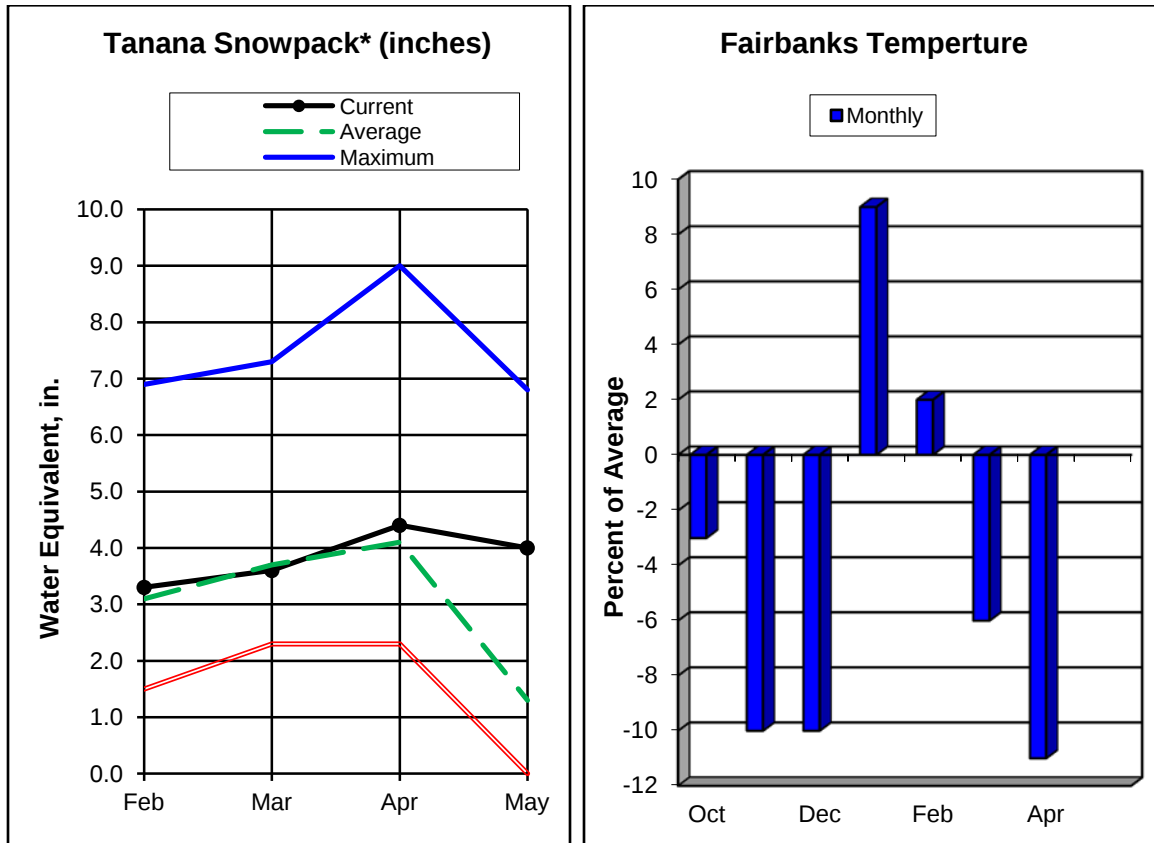
INCHES ACCUMULATED SINCE OCTOBER 1st

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
AMERICAN CREEK	1050	3.8	4.0	---	---
ATIGUN PASS	4800	5.1	7.7	6.7	76%
CHANDALAR CAMP	3300	---	3.0	5.2	---
EAGLE SUMMIT	3650	5.7	4.5	5.9	97%
FORT YUKON	430	4.2	3.8	3.9	108%
UPPER NOME CREEK	2520	7.1	7.1	6.5	109%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Forty Mile	1	360	--
Porcupine (Y.T.)	4	94	124
White Mountains	--	--	--
Yukon Flats	4	232	187

TANANA BASIN*



Snowcover:

The upper Tanana Valley snowpack remains above normal to much above normal. Tok Junction snow course, with 22" of snow and 5.0" of water content, measured its highest snowpack since 1972. The Tok SCAN site caught 0.3" of precipitation during April bringing its water year total to 3.9". Jatahmund Lake snow course, which started in 1993, produced a May 1 site record with 15" of snow and 3.7" of water content.

Down the valley the high snowpack continues. Granite Creek SNOTEL site, which was established in 1989, recorded its largest May 1 snow pack with 15" of snow and 3.7" of water content. The SNOTEL site caught 0.5" of precipitation during April. Both Fort Greely and Shaw Creek snow courses recorded their highest May 1 snowpacks since 1985.

The lower Tanana Valley snow pack also remains robust. Like the upper valley very little melting occurred during April and all snow courses gained water content during the month. Several sites recorded their highest May 1 measurements since 1992 and their third to fifth highest snowpacks since their records began. These include the snow courses at Caribou Creek, Colorado Creek, and Little Chena Bottom.

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

Tanana Basin

SNOWPACK DATA

This Year			Last Year		1981-2010 Normal			
Site Name	Elev.	Date	Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
BONANZA CREEK	1150	4/29/2013	26	6.5	0	0.0	0	0.0
CARIBOU CREEK	1250	4/30/2013	25	5.2	0	0.0	0	0.0
CARIBOU SNOW PILLOW	900	4/30/2013	25	5.0	0	0.0	0	0.0
CHISANA	3320	5/1/2013	14	3.4	4	1.2	---	2.8
CLEARY SUMMIT	2230	4/29/2013	34	6.9	16	5.2	19	4.9
COLORADO CREEK	700	4/29/2013	23	4.9	0	0.0	4	1.0
FAIRBANKS F.O.	450	5/1/2013	22	5.2	0	0.0	---	0.0
FAITH CREEK	1900	4/29/2013	24	5.0	3	0.9	7	2.0
FIELDING LAKE	3000	5/1/2013	54	16.9	31	9.9	34	10.2
FORT GREELY	1500	4/30/2013	18	4.3	0	0.0	0	0.0
FRENCH CREEK	1800	4/30/2013	33	6.3	9	2.3	13	3.6
GERSTLE RIVER	1200	4/30/2013	17	3.4	0	0.0	2	0.6
GRANITE CRK	1240	5/1/2013	15	3.7	0	0.0	---	0.0
JATAHMUND LAKE	2180	4/29/2013	15	3.7	0	0.0	0	0.2
KANTISHNA	155	5/1/2013	30	6.0*	0	0.0	9	2.2
LAKE MINCHUMINA	730	No Survey	---	---	0	0.0	1	0.3
LITTLE CHENA BOTTOM	1460	4/29/2013	24	4.3	0	0.0	8	1.7
LITTLE CHENA RIDGE	2000	5/1/2013	24	4.8	0	0.0	---	2.3
MENTASTA PASS	2430	5/1/2013	29	7.4	8	2.4	14	3.9
MONUMENT CREEK	1850	5/1/2013	24	5.9	0	0.0	---	2.1
MT. RYAN	2800	5/1/2013	29	5.9	8	3.1	---	4.7
MUNSON RIDGE	3100	5/1/2013	43	9.1	22	8.2	---	7.9
PARADISE HILL	2200	4/29/2013	19	4.6	0	0.0	0	0.0
ROCK CREEK BOTTOM	2250	No Survey	---	---	0	0.0	4	0.8
ROCK CREEK RIDGE	2600	No Survey	---	---	1	0.3	8	1.9
SHAW CREEK FLATS	980	4/30/2013	20	4.0	0	0.0	0	0.0
TEUCHET CREEK	1640	5/1/2013	25	5.0	0	0.0	---	1.3
TOK JUNCTION	1650	5/1/2013	22	5.0	0	0.0	0	0.0
UPPER CHENA	3000	4/29/2013	30	6.2	15	4.8	21	6.0
UPPER CHENA	2850	5/1/2013	37	6.7	0	0.0	---	5.2

*Estimate

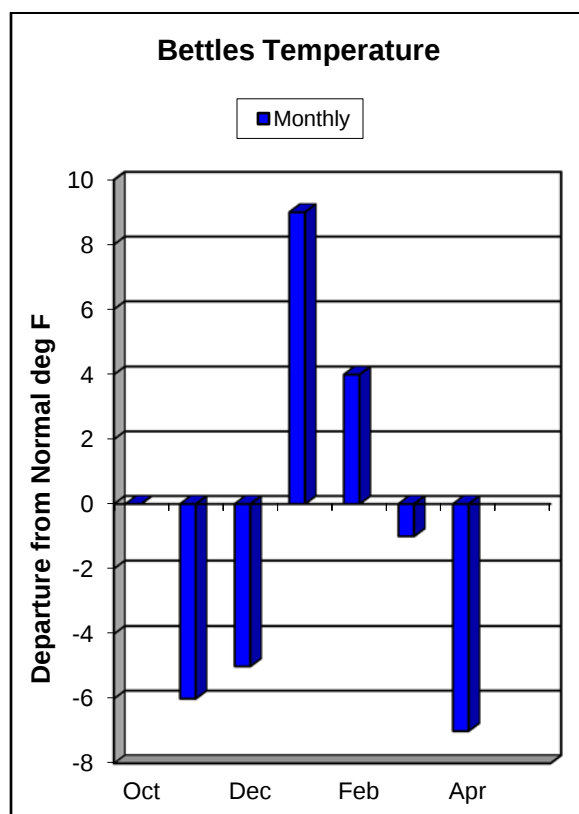
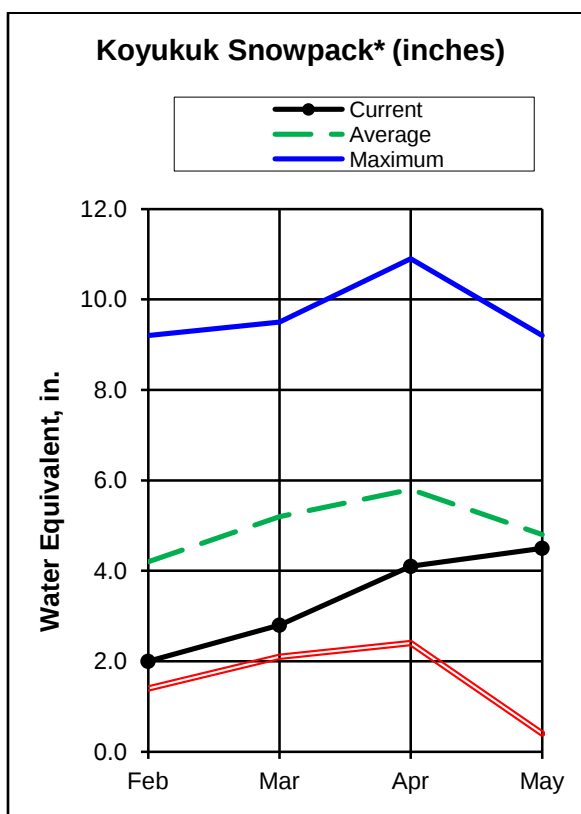
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Tanana River at Fairbanks	May- Jul	7000	8090	116	169	79
Little Chena River near Fairbanks	May -Jul	72	86	151	88	69
Chena River near Two Rivers	May -Jul	255	315	124	159	90
Salcha River near Salchaket	May - Jul	590	825	139	176	105
Tanana River at Nenana	May - Jul	8470	9880	117	123	102

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Chatanika	4	362	320
Chena Basin	11	256	162
Lower Tanana Valley	4	--	--
Mid Tanana Valley (Delta Junction)	5	326	299
Upper Tanana Valley (Tok)	6	576	353

WESTERN INTERIOR BASINS*



SNOWCOVER:

Koyukuk

The Koyukuk basin snowpack remains below normal, although April snowstorms brought increases around the basin. Bettles Field SNOTEL site received 0.6" of precipitation during April and Coldfoot SNOTEL received 0.4". The basin is just below 90% of normal.

Kuskokwim

The lower elevation sites in the Kuskokwim basin have started to melt out, albeit slowly. McGrath NWS site reported 15" of snow on the ground, down from 28" last month. Aniak SCAN site reported no measurable precipitation during April. The upper elevation sites in the Kuskokwim do not appear to be melting.

Lower Yukon

The snowpack in the Lower Yukon Basin continues to be above normal and about a third more than last year. Innoko Inn snow course was measured with 17 inches of snow depth with an estimated 5.0 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	5/1/2013	21	5.8	19	5.9	---	6.6
BONANZA FORKS	1200	4/30/2013	19	4.9	10	4.0	16	4.2
CLOVERLEAF	170	5/2/2013	9	2.5	15	5.5	---	---
COLDFOOT	1040	5/1/2013	17	3.8	14	5.4	---	6.1
COLVILLE BEND	170	5/2/2013	19	4.8	21	7.5	---	---
DISASTER CREEK	1550	5/1/2013	12	2.6	14	4.4	14	3.4
HUGGINS CREEK	290	5/2/2013	21	4.7	9	3.3	---	---
JR SLOUGH	160	5/2/2013	19	5.3	21	7.8	---	---
KALDOYEIT	580	4/28/2013	6	1.8	12	4.5	10	2.8
KANUTI CHALATNA	550	4/28/2013	18	4.8	0	0.0	16	3.8
KANUTI KILOLITNA	550	4/28/2013	14	3.7	2	0.8	9	2.8
MINNKOKUT	580	4/28/2013	24	6.1	9	3.6	26	6.6
NOLITNA	560	4/28/2013	19	4.9	0	0.0	14	---
TABLE MOUNTAIN	2200	5/1/2013	12	2.8	19	4.8	20	4.8
TAIHOLMAN	540	4/28/2013	3	0.6	0	0.0	0	0.0
TREAT ISLAND	190	5/2/2013	10	2.8	9	3.3	---	---
Kuskokwim								
ANIAK SCAN	80	5/1/2013	14	---	---	---	---	---
HOLITNA RIVER	257	No Survey	---	---	---	---	---	---
HOLOKUK RIVER	367	5/1/2013	17	5.7	---	---	---	---
JOHNNY SLU	180	5/1/2013	18	5.9	0	0.0	---	---
KOGRUKLUK RIVER	493	5/1/2013	32	10.5	---	---	---	---
LAKE MINCHUMINA	730	No Survey	---	---	0	0.0	1	0.3
LOWER ANIAK	164	5/1/2013	26	8.7	14	5.0	---	---
MCGRATH	340	5/1/2013	15	4.5	---	3.3	9	3.0
MIDDLE KUSKOWIM	297	5/1/2013	14	5.0	14	5.2	---	---
N. FORK KUSKOKWIM	512	4/29/2013	27	9.2	11	4.2	---	---
NIXON FORK KUSKOKWIM	508	5/2/2013	31	8.3	---	---	---	---
PURKEYPILE MINE	2025	No Survey	---	---	0	0.0	9	2.6
UPPER ANIAK	781	5/1/2013	26	7.5	---	---	---	---
Lower Yukon								
DEER CREEK	195	4/29/2013	17	4.6	21	8.0	---	---
GROUCH CREEK	220	4/30/2013	30	8.4	---	---	0	0.0
HOLIKACHUK	100	4/30/2013	29	9.1	---	3.6	9	3.2
HORSEFLY CREEK	180	4/30/2013	27	8.2	---	---	0	0.0
INNOKO INN	200	4/30/2013	17	4.9	---	---	---	---
LITTLE MUD RIVER	855	4/29/2013	18	4.3	0	0.0	---	---
LOWER NOWITNA RIVER	205	4/29/2013	17	4.7	0	0.0	---	---
MIDDLE INNOKO	150	4/30/2013	33	9.5	---	---	0	0.0
NINEMILE ISLAND	140	5/2/2013	21	5.6	27	9.5	---	---
PIKE TRAP LAKE	130	5/2/2013	7	2.0	0	0.0	---	---
SQUIRREL CREEK	150	5/2/2013	19	5.5	15	5.8	---	---
UPPER INNOKO	180	4/30/2013	20	6.0	---	---	0	0.0
WAPOO HILLS	220	4/30/2013	31	9.5	---	---	0	0.0
YANKEE SLOUGH	100	4/30/2013	30	8.7	---	---	24	7.5

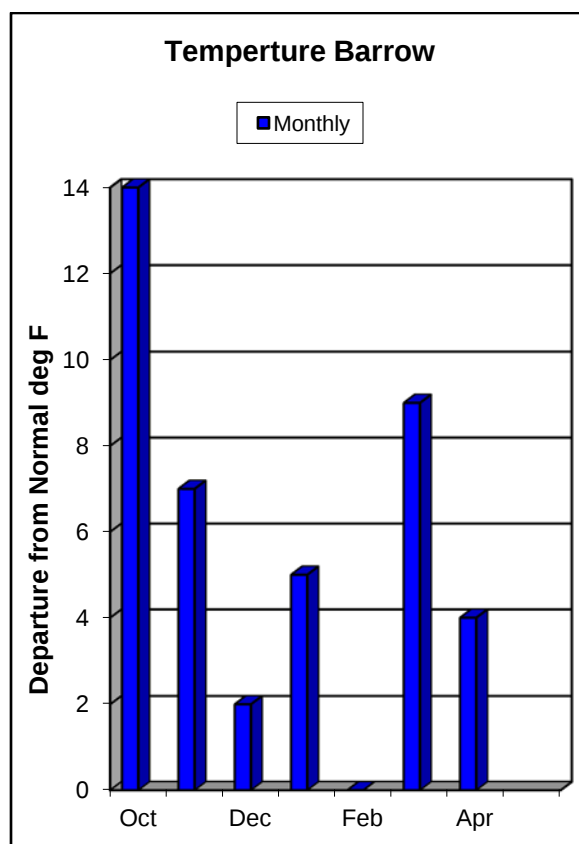
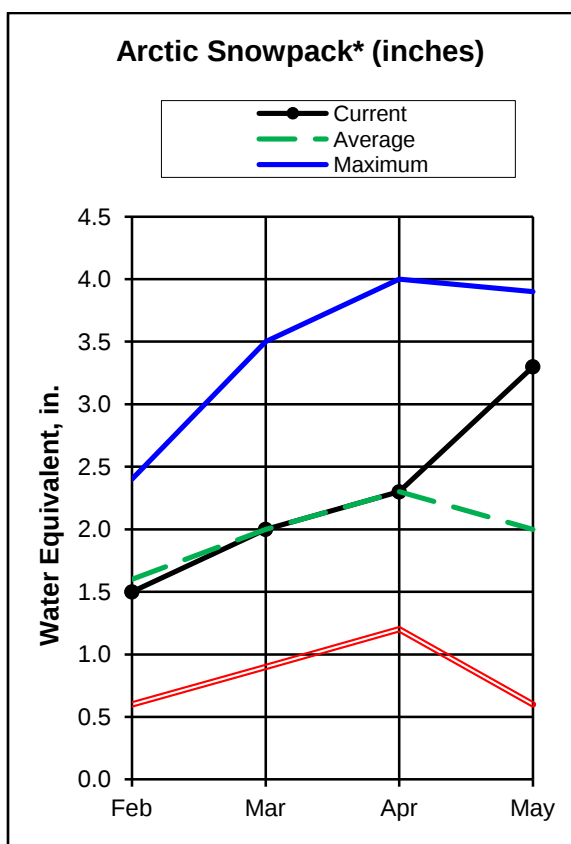
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Kuskokwim River at Crooked Creek	Apr-Jun	9400	11600	123	176	102

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Koyukuk	8	101	88
Upper Kuskokwim	7	200	150
Lower Yukon	7	133	555

ARCTIC AND KOTZEBUE SOUND*



Snowcover:

Arctic

The Arctic snowpack made large increases during the month of April. The Imnaviat Creek SNOTEL site, 110 miles south of Deadhorse, gained 17" of new snow depth, for a total of 44". Prudhoe Bay SNOTEL site increased 13" in snow depth and caught 1.7" of precipitation which is almost three times normal April precipitation. This brings the SNOTEL site's water year total to 3.8" which is 92% of normal.

Kotzebue

The precipitation gauge at Red Dog Mine measured 0.53" of precipitation during April while the Red Dog Port facilities received 0.16". The little snow in this area is hanging on and saw some increase during April. The snowpack at Kelly Station SNOTEL, on the Noatak River, gained 0.5" of SWE during March. It now has 13" of snow depth and 2.1" of water content. Last year it had 5" of snow with 1.3" 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
KELLY STATION	310	5/1/2013	13	2.1	5	1.3	---	---
IMNAVIAT CREEK	3050	5/1/2013	45	---	28	---	---	---
PRUDHOE BAY	30	5/1/2013	19	---	---	---	---	---
SAGWON	1000	5/1/2013	25	---	18	---	---	---

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Arctic					
ATIGUN CAMP	3400	---	3.8	3.0	---
ATIGUN PASS	4800	5.1	7.7	6.7	76%
BARROW	25	2.2	1.7	---	---
IMNAVIAT CREEK	3050	3.4	2.7	3.2	106%
PRUDHOE BAY	30	3.8	3.7	4.1	93%
SAGWON	1000	4.0	3.3	3.4	118%
Kotzebue Sound					
	50	3.8	3.0	4.2	90%
Red Dog Mine	950	7.4	2.9	5.3	139%

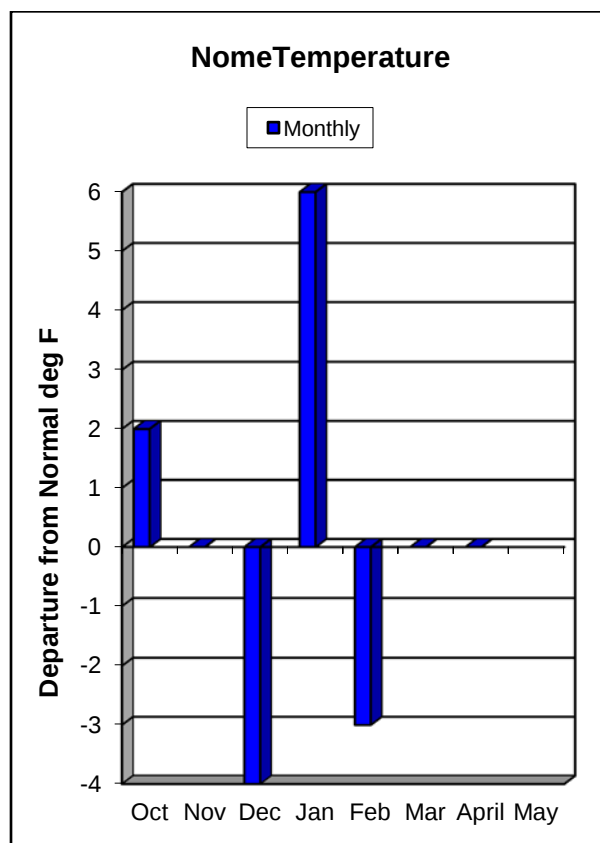
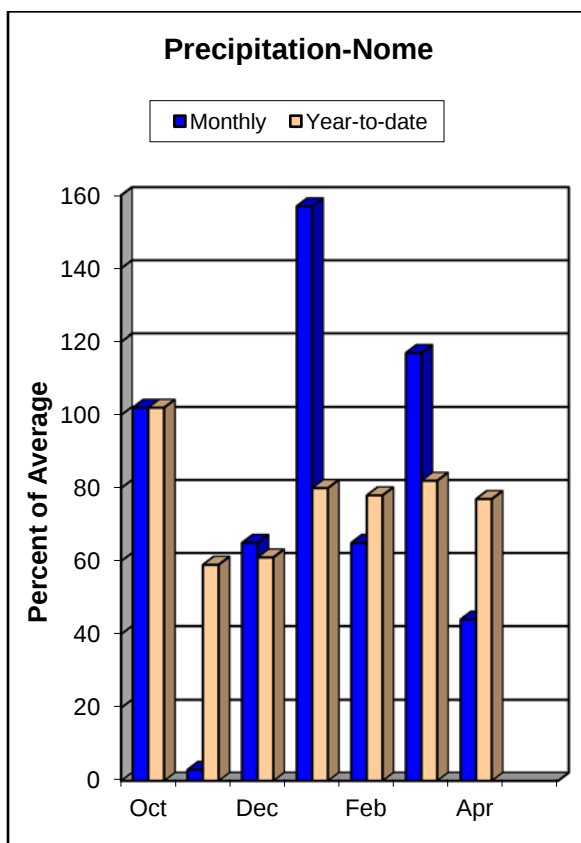
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Sagvanirktok River near Pump Station 3	May-Jul	683	820	120	171	81
Kuparuk River near Deadhorse	May-Jul	795	955	120	177	84

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Dalton Highway	3	---	165

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*



Snowcover:

Norton Sound

The Norton Sound area received little precipitation during April. Nome received 0.3" of precipitation, or almost half of normal. Rocky Point SNOTEL gained 0.1" of precipitation and has 21" of snow with an estimated water content of 4.1"

Southwest Delta

The Y-K Delta received little precipitation for the month. The NWS site in Bethel reported 0.03" of precipitation during April. Further up the Kuskokwim, the Aniak SCAN site received no recordable precipitation in April but still has 14" of snow depth.

Bristol Bay

Snow remains variable in the Bristol Bay region. The eastern half has spotty snow. Port Alsworth snow course has melted out and Brooks Camp Aerial Marker is reported to have no substantial snow. Weary Lake SNOTEL site, a new SNOTEL site 23 miles west of Dillingham at an elevation of 100 feet, reported 62" of snow with an estimated 20.5" of water content, 0.2" more than last month.

Norton Sound / Southwest Delta / Bristol Bay

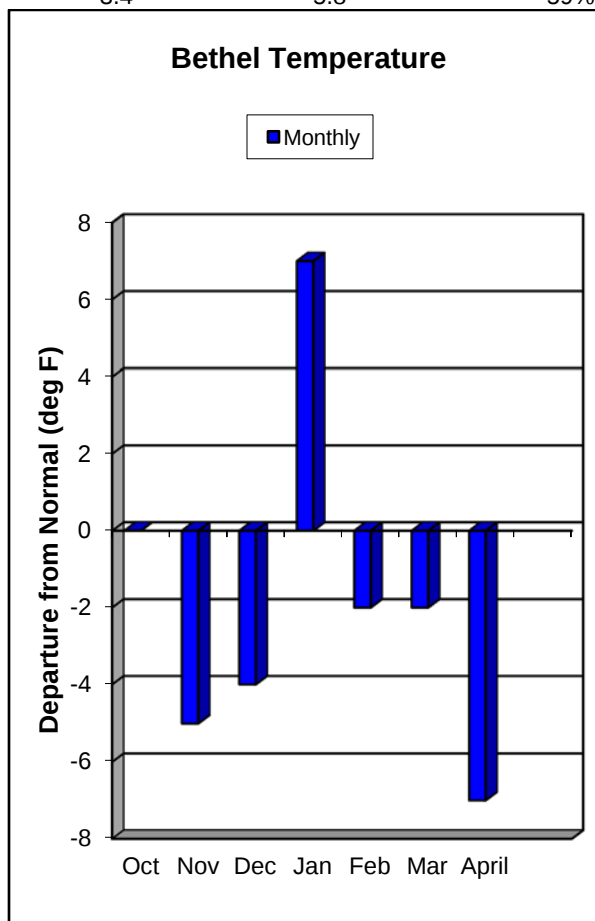
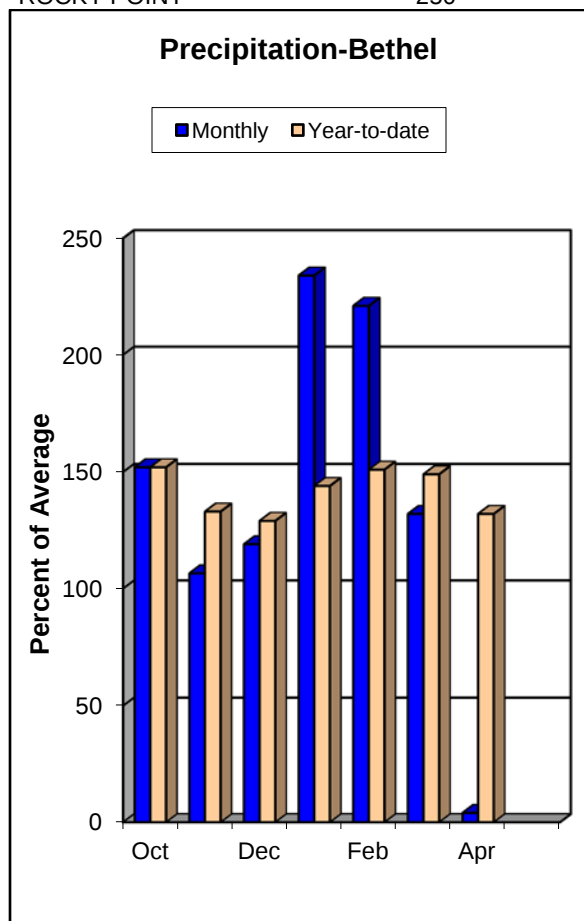
SNOWPACK DATA

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	No Survey	0*	0.0*	0	0.0	---	---
FISHTRAP LAKE	1800	No Survey	---	---	---	---	---	---
LOWER MULCHANTA	320	5/1/2013	0	0.0	New Site		---	---
PORT ALSWORTH	270	5/1/2013	0	0.0	---	---	---	---
THREE FORKS	900	No Survey	---	---	26	6.2	---	---
UPPER TWIN LAKES	2000	No Survey	---	---	---	8.4*	---	---
WEARY LAKE	100	5/1/2013	62	20.5*	New Site		---	---
Norton Sound								
JOHNSON'S CAMP	25	5/1/2013	15	3.2*	29	---	---	---
PARGON CREEK	100	5/1/2013	7	1.4*	---	---	---	---
ROCKY POINT	250	5/1/2013	21	4.1*	---	---	---	---

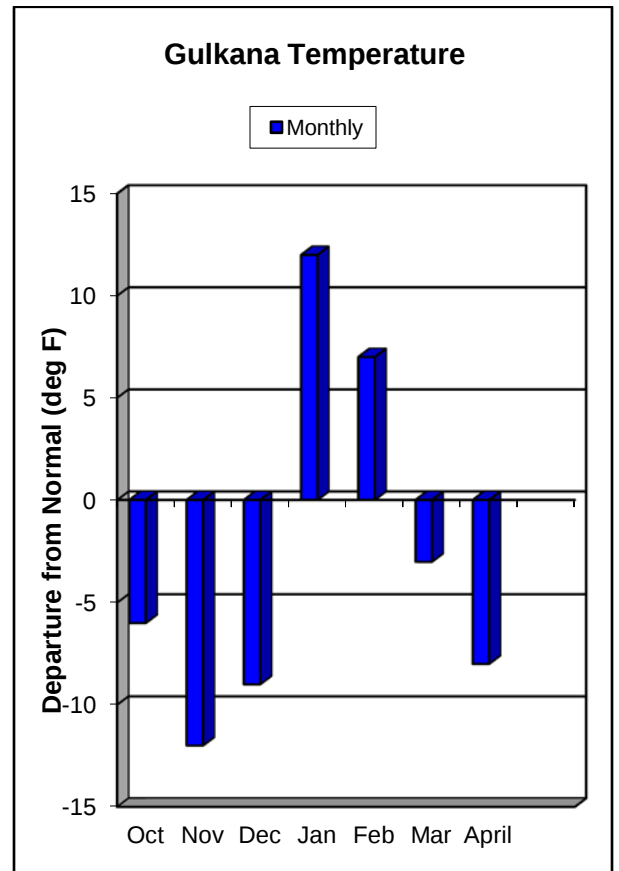
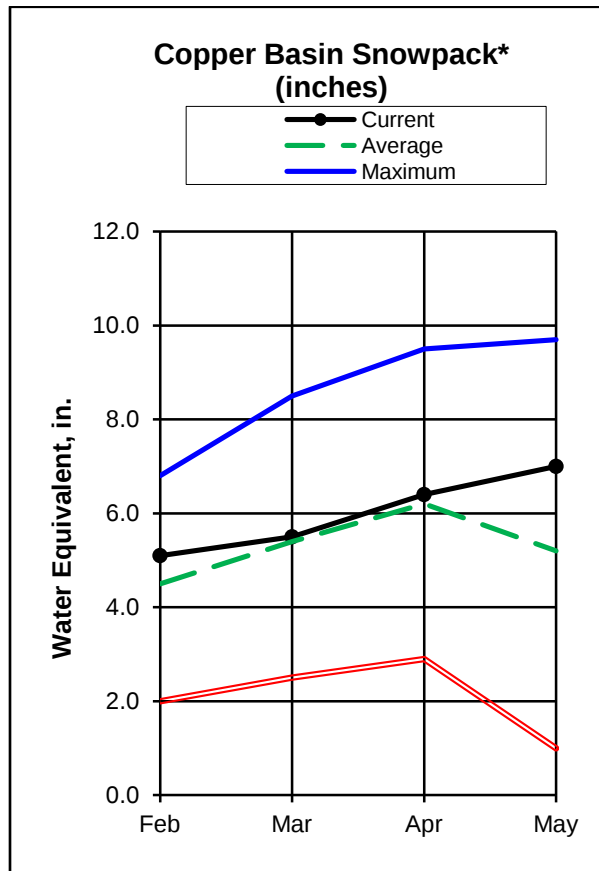
*Estimate

PRECIPITATION DATA

Site Name	Elev.	INCHES ACCUMULATED SINCE OCTOBER 1 ST				% of Normal
		This Year	Last Year	1981-2010 Normal		
PARGON CREEK	100	5.6	5.6	6.7		84%
ROCKY POINT	250	3.4	3.4	5.8		59%



COPPER BASIN*



Snowcover:

Like last month, the snowpack in the Copper River basin changes from north to south. In the northern part of the basin along the Alaska Range, the snowpack is much above normal. Fielding Lake snow course has 54" of snow depth and 16.9" of water content, 3.3" higher than last month. This is the highest May 1 reading since 1990 and the sixth highest since the record began in 1960. Likewise this month's reading is the highest for the snow courses at Paxson since 1990, Mentasta Pass since 1991, Chistochina since 1992, and Haggard Creek since 1985.

The southern part of the basin floor remains below normal, but higher than last month. Tsaina River and Worthington Glacier snow courses are just under 90% of normal. Kenny Lake snow course, however, is typically melted out by May 1st and was measured this year with 15" of snow depth and 3.0" of water content, the highest May 1 reading since 1992.

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	5/1/2013	20	4.5	0	0.0	0	0.0
FIELDING LAKE	3000	5/1/2013	54	16.9	31	9.9	34	10.2
HAGGARD CREEK	2540	5/1/2013	35	8.1	11	3.5	14	4.3
KENNY LAKE SCHOOL	1300	5/1/2013	15	3.0	0	0.0	0	0.0
LAKE LOUISE	2400	5/1/2013	25	5.5	13	4.5	11	2.9
LITTLE NELCHINA	2650	5/1/2013	22	4.6	15	5.2	12	3.7
MAY CREEK	1610	5/1/2013	19	5.5	0	0.0	---	2.0
MENTASTA PASS	2430	5/1/2013	29	7.4	8	2.4	14	3.9
MT. EYAK	1405	5/1/2013	115	42.5	84	44.8	---	28.1
PAXSON	2650	5/1/2013	40	10.4	21	6.2	22	6.4
TAZLINA	1225	5/1/2013	13	3.5	0	0.0	0	0.0
TOLSONA CREEK	200	5/1/2013	21	4.2	6	2.2	0	0.0
TSAINA RIVER	1650	4/30/2013	40	12.5	43	18.4	42	14.0
UPPER TSAINA RIVER	1750	5/1/2013	52	16.1	56	26.0	---	19.2
WORTHINGTON GLACIER	2100	4/30/2013	62	21.6	78	33.2	63	24.6

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
MAY CREEK	1610	6.9	5.2	6.5	106%
UPPER TSAINA RIVER	1750	21.5	28.4	28.5	75%

STREAMFLOW FORECASTS

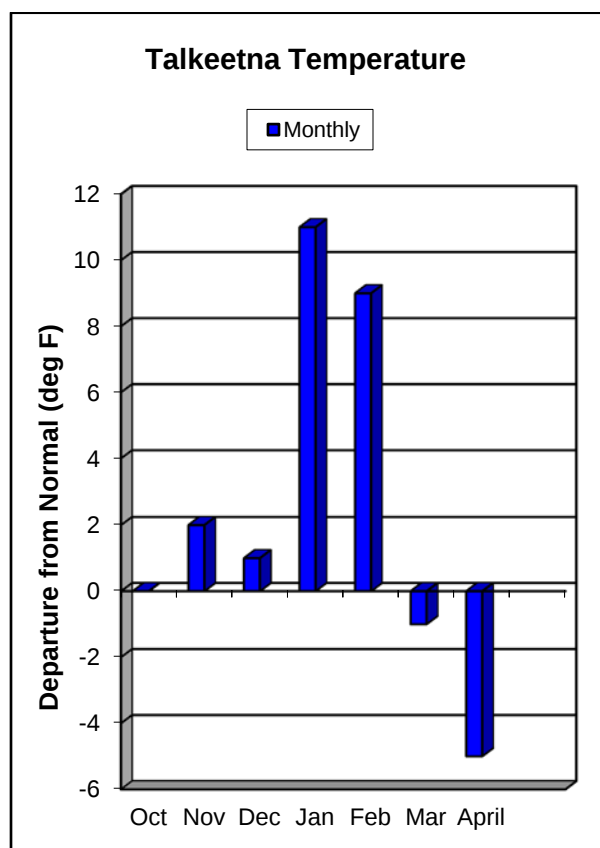
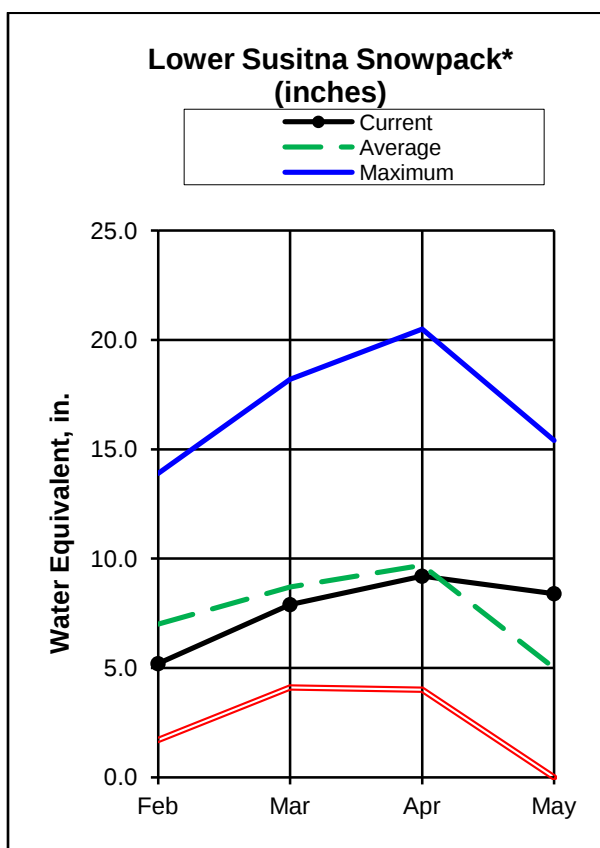
FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Gulkana River at Sourdough	May- Jul	415	575	139	149	111

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Alaska Range**	3	188	169
Basin Floor	6	197	279
Chugach Range	4	69	92
Talkeetna Mountains	1	74	158
Wrangell Mountains	1	--	275

**At the foot of the Alaska Range.

MATANUSKA - SUSITNA BASINS*



Snowcover:

The snowpack in the lower elevation sites in the Matanuska and Susitna basins have begun to melt, but slowly. Snowpacks at higher elevations have either maintained themselves through the month or have increased. The snowpack is considered above normal to much above normal.

The upper Susitna basin saw modest gains in April. Lake Louise snow course increased 0.9" of water content to 25" of depth and 5.5" of water content. On the other side of the Talkeetna Mountains both the Blueberry Hill and East Fork Chulitna snow course maintained their snow packs.

Lower in the basin, meltout is occurring slowly. Talkeetna snow course lost 0.4" water content, while down the Parks Highway the Willow Airstrip snow course has lost 0.6" of water content. It was measured at 26" of snow depth and 8.1" of water content, about twice normal. Point Mackenzie SNOTEL received 0.5" of precipitation in April and increased its snowpack by the same amount to 18" of snow depth and 6.5" of water content.. The snowpack at Point MacKenzie normally melts out in late April.

The Hatcher's Pass area of the Matanuska basin saw the largest increases during April. Each of the four snow courses in the area is deeper and wetter than last month. The Independence Mine SNOTEL site saw 2.5" of precipitation during April bringing its water year total so far to 24.6" or 137% of normal. The Independence Mine snow course had 79" of snow depth with 25.1" of water content. Since May 1 the Independence Mine SNOTEL site has received an additional 2.9" of precipitation and over 20" of snow depth.

* 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
ARCHANGEL ROAD	230	5/1/2013	58	18.2	39	15.6	35	11.7
BENTALIT LODGE	150	No Survey	---	---	6	2.7	---	1
BLUEBERRY HILL	1200	4/29/2013	40	14.1	34	13.2	40	14.1
CHELATNA LAKE	1450	No Survey	---	---	35	13.0	30	9.6
DENALI VIEW	700	4/29/2013	31	11.1	22	8.7	27	9.1
DUTCH HILLS	3100	No Survey	---	---	69	27.0	71	25.7
E. FORK CHULITNA	1800	4/29/2013	39	12.8	35	13.3	42	12.4
FISHHOOK BASIN	3300	5/1/2013	76	25.2	58	23.6	55	19.5
FOG LAKES	2120	5/1/2013	---	6.8	---	5.8	15	3.8
HALFWAY SLOUGH	350	4/29/2013	17	5.0	0	0.0	---	---
INDEPENDENCE MINE	3550	5/1/2013	79	25.1	69	28.9	61	21.8
LAKE LOUISE	2400	5/1/2013	25	5.5	13	4.5	11	2.9
LITTLE SUSITNA	1700	5/1/2013	48	14.5	24	9.4	21	8.2
MONAHAN FLAT	2710	No Survey	---	---	---	---	30	7.6
NUGGET BENCH	2010	No Survey	---	---	31	12.0	42	13.9
RAMSDYKE CREEK	2220	No Survey	---	---	45	18.8	57	19.7
SHEEP MOUNTAIN	2900	5/1/2013	23	4.9	16	6.6	11	3.1
SUSITNA VALLEY HIGH	375	5/1/2013	23	6.7	13	5.4	---	5.1
TALKEETNA	350	4/29/2013	23	7.8	8	3.1	12	4
TOKOSITNA VALLEY	850	5/1/2013	44	15.3	39	14.3	---	11.8
WILLOW AIRSTRIP	200	4/29/2013	26	8.1	19	6.5	10	3.3

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Little Susitna River near Palmer	May-Jul	80	94	118	141	94
Talkeetna River near Talkeetna	May-Jull	1530	1690	110	127	94

PRECIPITATION DATA

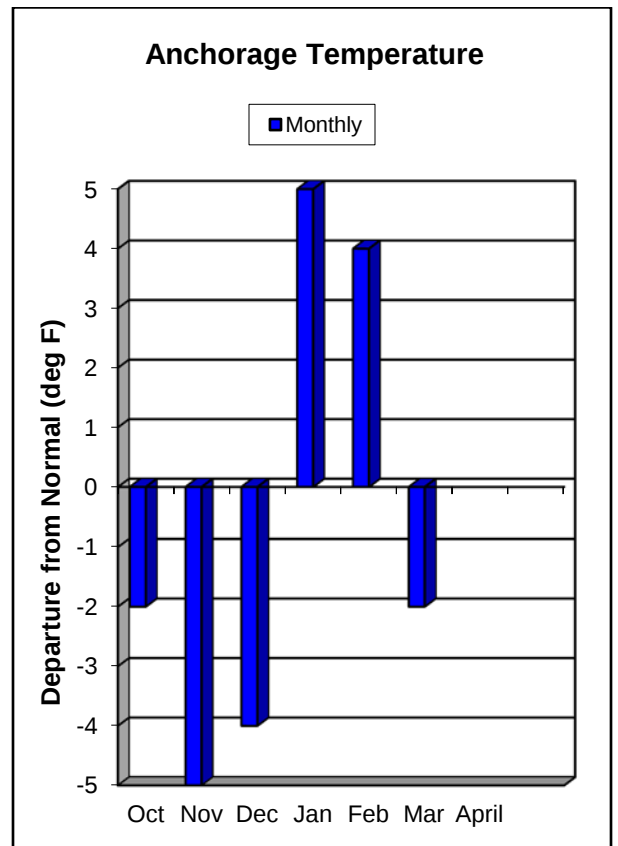
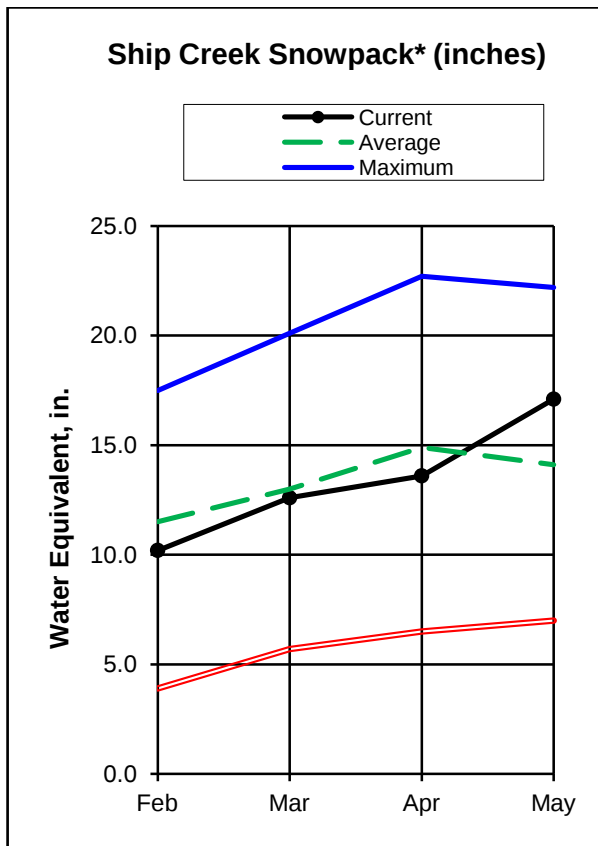
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
INDEPENDENCE MINE	3550	24.6	21.4	18.0	137%
MONAHAN FLAT	2710	9.9	7.8	8.6	115%
SUSITNA VALLEY HIGH	375	12.3	14.1	13.4	92%
TOKOSITNA VALLEY	850	19.0	23.4	21.4	89%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Lower Susitna	4	196	182
Matanuska/Little Susitna	5	103	142
Peters Hills	2	115	126
Upper Susitna	3	105	110

NORTHERN COOK INLET*



Snowcover:

The snowpack in northern Cook Inlet has normalized, though cold April temperatures have delayed the melt off of low elevation sites. Anchorage Hillside SNOTEL site gained 1.6" of precipitation during April, bring its water year total to 16.0" or 103% of normal. The snowpack at the SNOTEL site is 98% of normal with 33" of snow and 10.6" of water content. Kincaid Park snow course had 16" of snow with 5.2" of water content, its highest recorded May 1 snowpack since it began in 1992.

Moraine SNOTEL, above Eklutna Reservoir, had 27" of snow with 7.1" of water content. Moraine SNOTEL caught 1.8" of precipitation during April. It has caught 10.3" of precipitation this water year, 81% of normal. Indian Pass SNOTEL has caught 125% of normal precipitation since Oct. 1st or 35.5".

* 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	5/1/2013	33	10.6	38	17.1	---	10.8
INDIAN PASS	2350	5/1/2013	85	26.1	68	32.8	---	24.3
KINKAID PARK	250	5/1/2013	16	5.2	9	2.8	0	0.0
MORAINE	2100	5/1/2013	27	7.1	26	10.9	---	6.5
MT. ALYESKA	1540	5/1/2013	98	33.0	74	34.7	---	35.2
POINT MACKENZIE	250	5/1/2013	18	6.5	9	3.2	---	0.0
PORTAGE VALLEY	50	No Survey	---	---	64	30.7	14	6.2
SOUTH CAMPBELL CREEK	1200	4/29/2013	19	5.8	---	4.6	10	3.4

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE (1000AF)	% OF AVERAGE	MAX (%)	MIN (%)
Ship Creek near Anchorage	May- Jul	56	57	102	125	79

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Northern Cook Inlet

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
ANCHORAGE HILLSIDE	2080	16.0	22.3	15.5	103%
INDIAN PASS	2350	35.5	36.8	28.4	125%
MORAINE	2100	10.3	17.5	12.7	81%
MT. ALYESKA	1540	41.6	51.2	52.9	79%
POINT MACKENZIE	250	10.3	10.9	8.6	120%

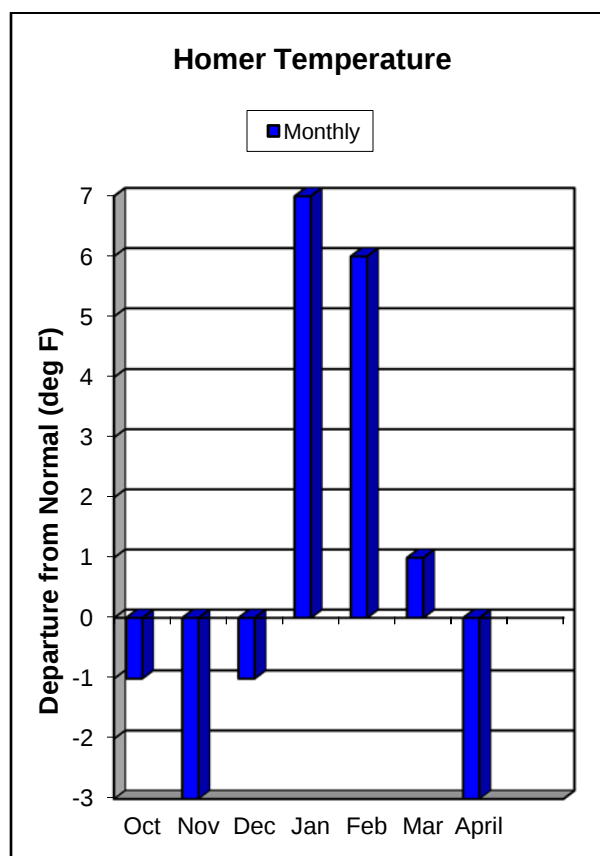
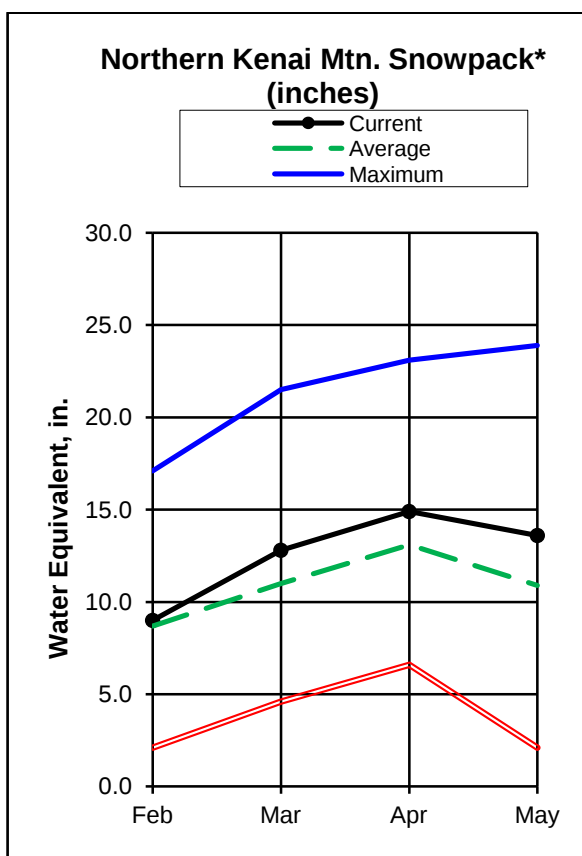
Western Cook Inlet

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
MCNEIL RIVER SGS	140	46.2	New Site	---	---

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Beluga	---	---	---
Campbell Creek	3	95	152
Ship Creek	3	71	105
Turnagain Arm	3	81	85

KENAI PENINSULA*



Snowcover:

The snowpack across the Kenai Peninsula remains above normal. In the northern Kenai Mountains, the 8 snow courses measured averaged 112% of normal. Grandview SNOTEL was 108% of normal with 89" of snow depth and 30.7" of water content. Moose Pass snow course had 19" of snow with 7.0" of water content.

The Ninilchik Dome area north of Homer averages 139% of normal. Anchor River Divide SNOTEL site has 45" of snow with 16.0" of water content, 6.0" more than normal. Anchor River Divide caught 1.1" of precipitation which brings its total precipitation since October 1st to 19.5" or 105% of normal.

South, across Kachemak Bay, the snowpack has made gains. Nuka Glacier SNOTEL has 97" of snow with an estimated 44.3" of water content, 104% of normal. The Nuka Glacier site caught no measurable precipitation during April, lowering the total precipitation for the water year to 61% of normal.

* 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	5/1/2013	45	16	35	12.6	---	10.0
BERTHA CREEK	950	5/1/2013	54	18.1	56	23.8	50	17.7
BRIDGE CREEK	1300	5/1/2013	35	11.7	28	11.4	32	10.6
COOPER LAKE	1200	5/1/2013	48	16.5	45	18.1	---	12.0
DEMONSTRATION FOREST	780	5/1/2013	12	4.0	20	7.5	13	4.6
EAGLE LAKE	1400	5/1/2013	38	14.2	34	14.1	24	9.0
EXIT GLACIER	400	5/2/2013	50	19.2	52	20.8	26	11.0
GRANDVIEW	1100	5/1/2013	83	37.2	71	38.4	---	34.6
GROUSE CREEK DIVIDE	700	5/1/2013	46	20.0	55	20.3	---	16
JEAN LAKE	620	No Survey	---	---	2	0.8	0	0.0
KENAI MOOSE PENS	300	5/1/2013	20	5.5	11	4.0	---	0.0
KENAI SUMMIT	1390	5/1/2013	43	15.6	31	13.2	30	11.3
MCNEIL CANYON	1320	5/1/2013	29	12.8	24	12.3	---	8.0
MOOSE PASS	700	5/1/2013	19	7.0	20	7.2	0	0.0
NUKA GLACIER	1250	5/1/2013	97	44.3*	---	---	93	42.8
PORT GRAHAM	300	5/1/2013	28	11.1	34	15.0	---	4.0
SNUG HARBOR ROAD	500	No Survey	---	---	11	3.8	0	0.0
SUMMIT CREEK	1400	5/1/2013	33	9.7	36	15.4	---	6.7
TURNAGAIN PASS	1880	5/1/2013	89	30.7	88	43.2	---	39.8

*Estimate

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Kenai River at Cooper Landing	May-Jul	920	1000	109	122	96

PRECIPITATION DATA

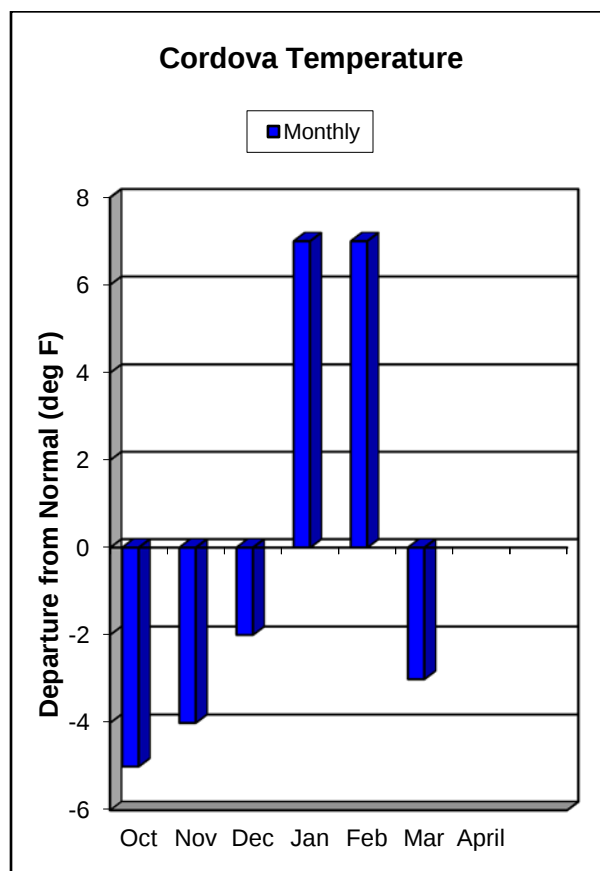
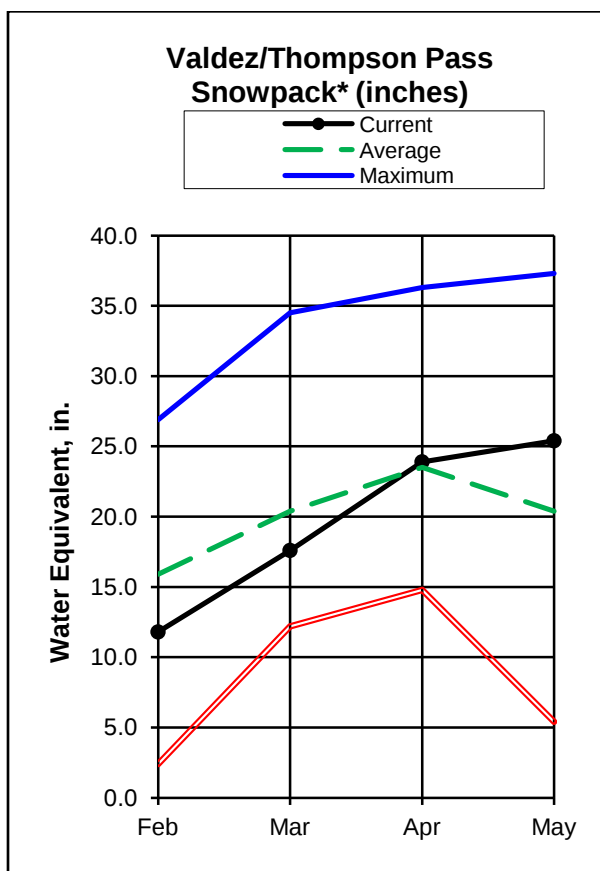
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
ANCHOR RIVER DIVIDE	1653	19.5	20.1	18.5	105%
COOPER LAKE	1200	20.4	28.9	27.1	75%
GRANDVIEW	1100	32.6	51.0	46.9	70%
GROUSE CREEK DIVIDE	700	27.2	43.8	41.9	65%
KACHEMAK CREEK	1660	27.5	45.1	41.7	66%
KENAI MOOSE PENS	300	10.4	9.7	8.9	117%
MCNEIL CANYON	1320	15.3	16.9	17.9	85%
MIDDLE FORK BRADLEY	2300	21.1	38.9	35.6	59%
NUKA GLACIER	1250	37.2	51.6	60.8	61%
PORT GRAHAM	300	38.4	53.2	52.8	73%
SUMMIT CREEK	1400	16.3	28.8	17.1	95%
TURNAGAIN PASS	1880	34.4	47.8	47.2	73%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Bradley Lake/Southern Kenai	---	---	---
Ninilchik Dome	5	102	139
Northern Kenai Flats	1	66	106
Northern Kenai Mountains	8	86	112

WESTERN GULF*



Snowcover:

The Western Gulf of Alaska and Prince William Sound area snowpack remains above normal. The Valdez snow course, only 50 feet above sea level, has 62 inches of snow and 23.9 inches of water content, up from last month. Across the bay from Valdez at 500ft of elevation, Sugarloaf Mountain snow course has 98" of snow with 30.7" of water content, about the same as last month. Sugarloaf SNOTEL site caught 3.7" of precipitation during April bringing its total precipitation for the water year, or since October 1st, to 39.5" which is 89% of normal. Since May 1st, 5" of water content has been added to the Thompson Pass DOT snowpack plot.

To the east above Cordova, Mt. Eyak SNOTEL site has 115" of snow with a reported 42.5" of water content. Exit Glacier snow course, near Seward on the far west side of the gulf, has begun melting out and measured 50" of snow with 19.2".

* 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	5/1/2013	51	19.2	52	20.8	---	11
GROUSE CREEK DIVIDE	700	5/1/2013	46	20	55	20.3	---	16
LOWE RIVER	600	5/1/2013	50	17.8	39	16.9	32	11.8
MT. EYAK	1405	5/1/2013	115	42.5	84	44.8	---	28.1
NUKA GLACIER	1250	5/1/2013	97	44.3*	---	---	93	42.8
SUGARLOAF MOUNTAIN	525	4/1/2013	98	30.7	88	37	61	23.9
TSAINA RIVER	1650	4/30/2013	40	12.5	43	18.4	42	14
UPPER TSAINA RIVER	1750	5/1/2013	52	16.1	56	26	---	19.2
VALDEZ	50	5/1/2013	62	23.9	42	18.7	28	10.4
WORTHINGTON GLACIER	2100	4/30/2013	62	21.6	78	33.2	63	24.6

*Estimate

PRECIPITATION DATA

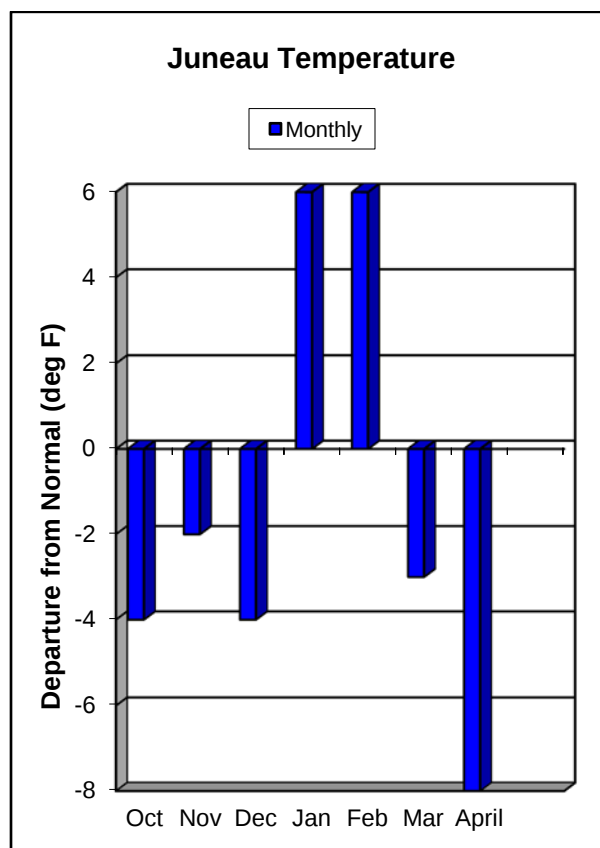
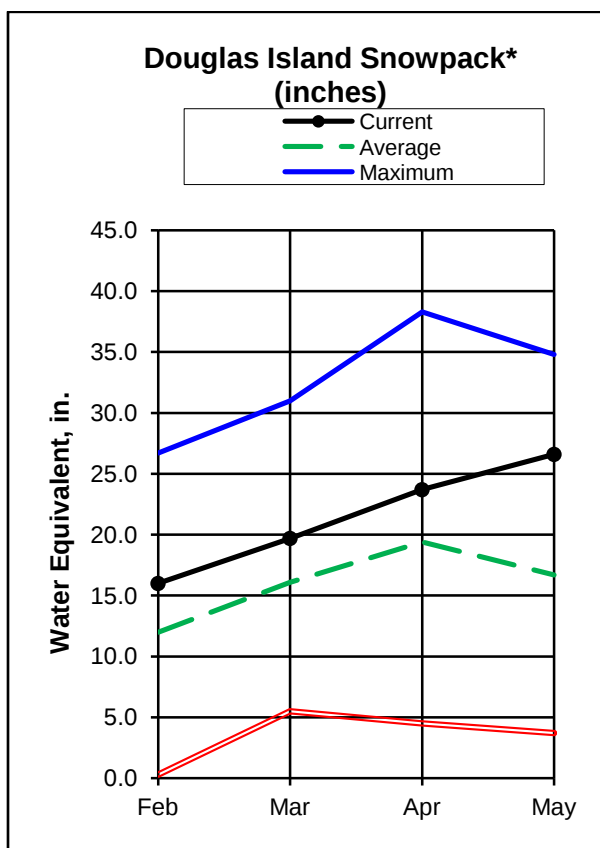
INCHES ACCUMULATED SINCE OCTOBER 1ST

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
ESTHER ISLAND	50	71.6	104.0	89.0	80%
GROUSE CREEK DIVIDE	700	27.2	43.8	41.9	65%
MT. EYAK	1405	70.0	84.0	---	---
NUCHEK	50	76.0	101.8	---	---
NUKA GLACIER	1250	37.2	51.6	60.8	61%
PORT SAN JUAN	50	69.5	88.4	85.4	0.81
STRAWBERRY REEF	30	38.2*	53.2	---	---
SUGARLOAF MTN	550	39.5	62.3	44.4	89%
TATITLEK	50	47.3	54.0	44.1	107%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Lowe River (Valdez)	5	92	132
Eyak Lake	1	100	151

Southeast



Snowcover:

The snowpack in Southeast Alaska continues to be above normal and much above normal. Lower elevation sites are melting out or have melted out while higher elevation sites all gained snowpack during the month.

Long Lake SNOTEL site, southeast of Juneau, gained 13.5" of precipitation during April, which brings its total precipitation since October 1st to 95.9" or 92% of normal. The snowpack at Long Lake SNOTEL increased from 48.3" of water content last month to 52.9" this month.

Cropley Lake snow course increased 6.7" inches of water content during April, measuring at 118" of snow depth and 46.1" of water content, 156% of normal. The snowpack at Eagle Crest snow course likewise increased and was measured at 83" of snow depth and 32.3" of water content.

In the Petersburg area, the Petersburg Ridge snow course had 90" of snow with 35.1" of water content and the Petersburg Reservoir snow course had 6" of snow with 2.2 inches of water content.

Moore Creek Bridge SNOTEL site, outside of Skagway, gained 4.1" of precipitation during April. The snowpack there is 81" deep and has 27.0" of water content. West Creek snow course, which was established 5 years ago, reported its highest May 1st reading with 31" of snow and 10.2" of water content.

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	4/29/2013	118	46.1	116	59.9	70	29.6
EAGLE CREST	1000	4/29/2013	83	32.3	85	37.2	34	12.2
FISH CREEK	500	4/29/2013	5	1.4	0	0	0	0
INSTITUTE CREEK	1350	No Survey	---	---	67	30.7	---	---
LONG LAKE	850	5/1/2013	123	52.9	101	47.2	---	35.8
MOORE CREEK BRIDGE	2250	5/2/2013	81	27	39	16	51	20.7
PETERSBURG RESERVOIR	550	4/29/2013	6	2.2	26	9.4	0	0
PETERSBURG RIDGE, S.	1650	4/29/2013	90	35.1	106	48.1	52	22.4
RAINBOW FALLS	500	No Survey	---	---	0	0	---	---
SPEEL RIVER	280	4/29/2013	84	35.5	78	39	50	22
WEST CREEK	475	4/29/2013	31	10.2	3	1.1	---	---

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	30- YR AVERAGE (1000AF)	50 PERCENTILE	% OF AVERAGE	MAX (%)	MIN (%)
Gold Creek near Juneau	May-Jul	32	38	119	144	97

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

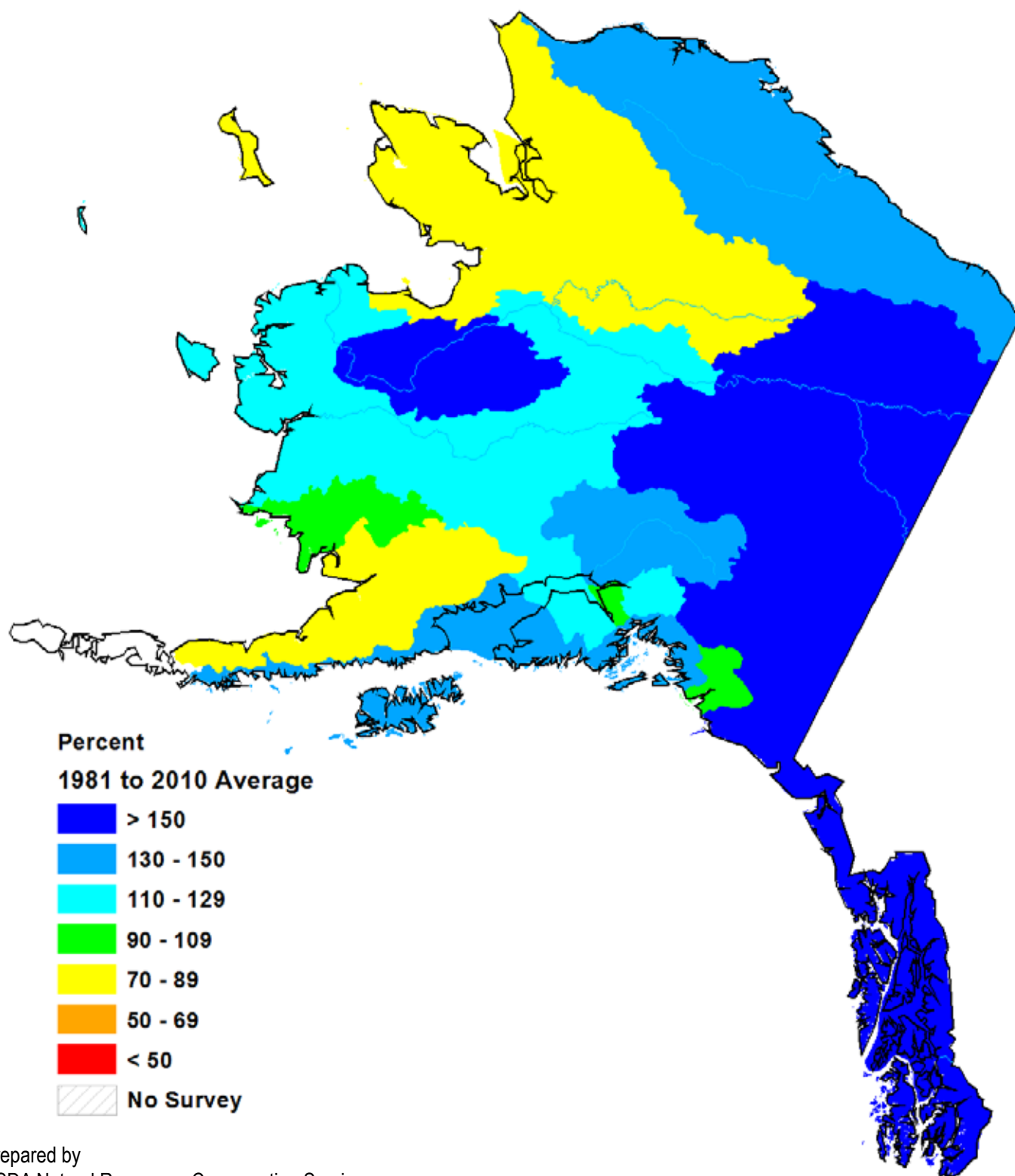
Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
LONG LAKE	850	95.9	108.1	104.6	92%
MOORE CREEK BRIDGE	2250	27.9	31.7	29.6	94%
SNETTISHAM	25	107.1	134.8	113.0	95%

WATERSHED SNOWPACK ANALYSIS

REGION / RIVER BASIN	# COURSES AVERAGED	PERCENT OF LAST YEAR	PERCENT OF NORMAL
Douglas Island	3	82	191
Petersburg	2	65	167
Skagway	2	170	130
Snettisham	2	104	153

Alaska Snowpack

May 1, 2013



Prepared by
USDA Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
www.wcc.nrcs.usda.gov

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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**United States Department of Agriculture
Natural Resources Conservation Service**