

Alaska Snow Survey Report



Natural
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February 1, 2017

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Cover photo: NRCS Snow Hydrologist, Tony DeMarco en route to the Upper Tsaina SNOTEL site November 2016.

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General Overview

SnowPack

The snowpack is much more uniform across the state than it has been for several years. Later, cooler, precipitation brought snow to both the mountains and the valleys. As a result in many areas lower elevation snowpacks are closer to normal than higher mountain snowpacks. Divergently is Southeast where some low lying snowpacks were diminished due to rain storms during January.

Most of the state's snowpacks are below normal due to below normal precipitation. The exception is the middle Tanana Valley and White Mountains which benefitted from some late December storms which built above normal snowpacks there.

A handful of mountain sites in southcentral are near record low. Turnagain Pass SNOTEL, Kenai Summit Snow Course, Mt. Alyeska SNOTEL and Independence Mine Snow Course are all measuring their lowest snowpack since 1996.

Precipitation

There are only three words to describe precipitation in Alaska in October: dry, dry, and dry. Numerous records were set across the state for minimum precipitation for the month. These included multiple 30+ year records by SNOTEL sites in the Interior and Southcentral and even longer records in Southeast. This was the driest October on record at Yakutat (88 years), Juneau and Petersburg (75 years) and Ketchikan (94 years). Only western Alaska escaped the "Big Dry," where some sites had near normal precipitation and Nome even managed to have above normal precipitation.

While most of Alaska remained dry through November, Kenai Peninsula and Southeast Alaska received normal and even above normal amounts of precipitation for the month.

Late December precipitation brought monthly totals to above average in much of the Interior and nearly twice normal in the central Tanana Basin. This precipitation eluded much of Southcentral and portions of Southeast.

Precipitation in January was much more varied across Alaska, with sites in each region logging both below normal and above normal precipitation. Big gains were made during the month in northern Cook Inlet and the mid Tanana basin, while Southwest Alaska was drier than normal.

General Overview

Temperature

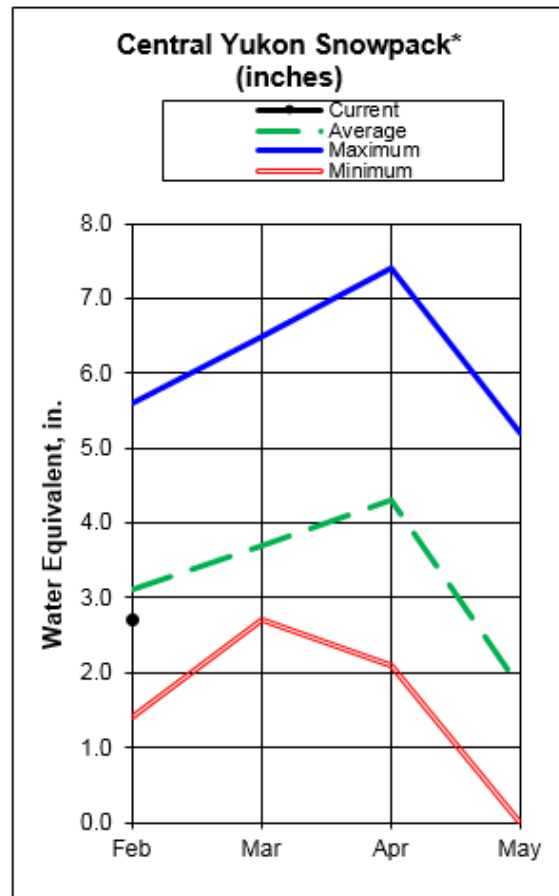
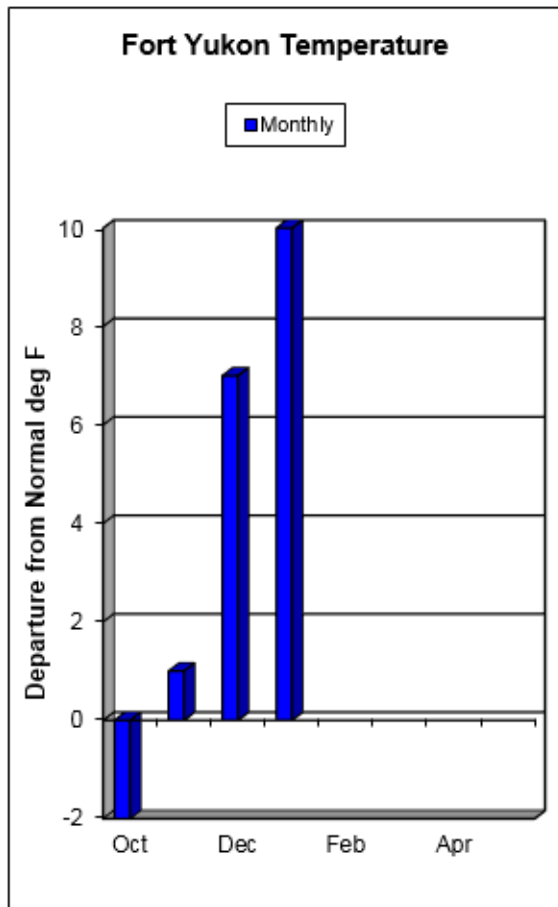
Temperatures this winter season started out cooler than last winter. Most areas were within a few degrees of normal for the month of October with only western and northern coastal areas being much above normal. Nome was 9°F above normal, Barrow was 16°F above normal and Bethel was 7°F above. Gulkana, in the Copper Valley, was the cooler part of the state with 8°F below normal for October.

November was near normal across much of state, excepting the Arctic. Barrow again was above normal by double digits being 15°F above normal for the month. Southcentral and Southeast were moderately above normal for the month, ranging from normal to up to 7°F above normal at Talkeetna with several locations (Homer, Anchorage, Cordova, Juneau) being 3-5°F above normal. In western Alaska, Bethel record 3°F below normal for the month.

Temperatures cooled off a little more in December and many sites were at or near normal for the month. Barrow continued its above normal path, bearing 11°F above normal for December. Nome and Fort Yukon were also above normal for the month, 5°F and 7°F respectively.

Despite a brief cold snap in January, most locations in Alaska were near or above normal for the month. Barrow, again was 13°F above normal for the month. Fort Yukon was 10°F above normal and Juneau was 5 °F above normal for the month. Most other locations were within a couple degrees +/- of normal for January.

Central Yukon Basin



Snow pack

The Central Yukon Basin snowpack is below to near normal across much of the basin, except for in the White Mountains, where the snowpack is above normal.

Precipitation across the whole basin was much below normal during October and November with sites receiving a third to half of normal precipitation. December brought near normal precipitation to the basin and January brought above normal precipitation. Precipitation sites vary from 74% of normal for the winter at Fort Yukon to 105% of normal at the Upper Nome Creek SNOTEL site, in the White Mountains.

The American Creek SNOTEL site, just outside Eagle, AK, has 15 inches of snow with 2.7 inches of water content, 0.5 inches less water content than last year. In the Forty-Mile River country, near the fork of the Taylor and Top-of-the-World Highways, the Jack Wade Junction SNOTEL site has 18 inches of snow and 2.6 inches of water content, about half of last year's snowpack.

In the lower part of the basin, Seven Mile snow course, near the Yukon Crossing, was 68% of normal with 16 inches of snow and 2.7" of water content, 5" shallower than last year.

The four sites in the White Mountains average 125% of normal snowpack. These sites benefitted mainly from a few large January storms.

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
December 1st								
American Creek	1050	12/1/2016	5	0.6	12	2.4	---	---
Atigun Pass	4800	12/1/2016	29	---	31	---	---	---
Eagle Summit	3650	12/1/2016	8	---	24	---	---	---
Fort Yukon	430	12/1/2016	2	---	13	---	---	---
Hess Creek	1000	11/30/2016	5	0.8	17	3.0	---	---
Jack Wade Jct	3585	12/1/2016	10	1.0	23	4.4	---	---
Seven Mile	600	11/29/2016	5	1.0	14	2.8	---	---
Thirty Mile	1350	11/29/2016	7	1.5	24	5.3	---	---
Upper Nome Creek	2520	12/1/2016	4	---	26	---	---	---
January 1st								
American Creek	1050	1/1/2017	10	1.5	14	3.0	---	---
Atigun Pass	4800	2/1/2017	32	---	38	---	---	---
Eagle Summit	3650	2/1/2017	10	---	24	---	---	---
Fort Yukon	430	2/1/2017	8	---	14	---	---	---
Jack Wade Jct	3585	1/1/2017	17	1.9	28	5.3	---	---
Upper Nome Creek	2520	2/1/2017	20	---	25	---	---	---
February 1st								
American Creek	1050	2/1/2017	14	2.7	15	3.3	---	---
Atigun Pass	4800	2/1/2017	34	---	43	---	---	---
Borealis	1330	2/3/2017	19	3.6	---	---	19	3.1
Boundary	3500	1/31/2017	18	3.6	---	---	---	---
Cathedral Creek	1800	2/2/2017	27	5.2*	---	---	---	---
Chicken Airstrip	1650	2/1/2017	14	2.4	---	---	---	---
Coal Creek	1000	2/2/2017	16	2.7	---	---	---	---
Copper Creek	2000	2/2/2017	15	2.7*	---	---	---	---
Crescent Creek	2600	2/2/2017	16	2.8*	---	---	---	---
Eagle Summit	3650	2/1/2017	9	---	26	---	---	---
Fort Yukon	430	2/1/2017	11	---	15	---	---	---
Fossil	1400	2/3/2017	18	3.5	---	---	18	3.5
Hess Creek	1000	2/2/2017	17	3.2	18	3.7	21	3.6
Jack Wade Jct	3585	2/1/2017	18	2.6	30	6.2	---	---
Lost Chicken Hill	2150	2/1/2017	14	2.4	---	---	---	---
Mt. Fairplay	3100	1/30/2017	17	3.2	---	---	---	---
Seven Mile	600	2/2/2017	16	2.7	21	3.5	22	3.8
Step Mountain	2850	2/2/2017	26	5.1*	---	---	---	---
Thirty Mile	1350	2/1/2017	16	3.3	30	5.9	30	5.8
Three Fingers	3350	2/2/2017	41	9.1	---	---	---	---
Upper Nome Creek	2520	2/1/2017	22	3.9*	24	---	---	---
Windy Gap	1900	2/2/2017	24	5.6	---	---	19	3.7
Wolf	1200	2/2/2017	19	4.0	---	---	18	3.0

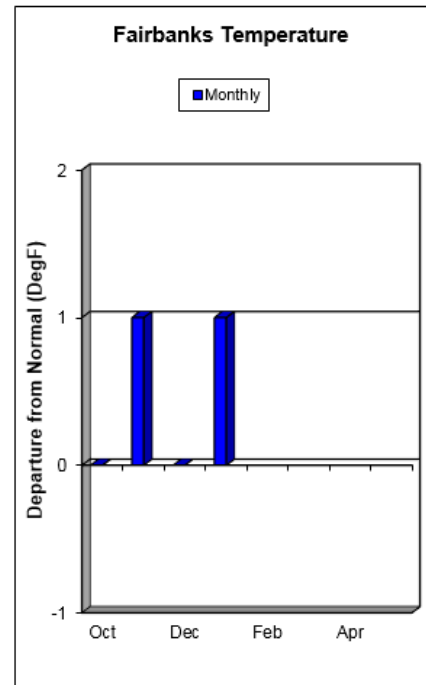
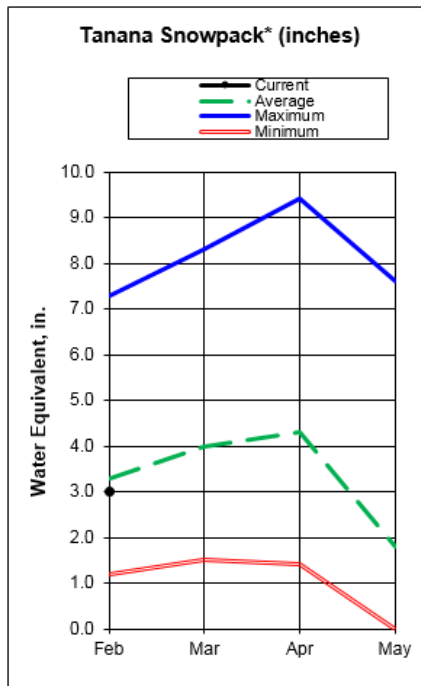
*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1, 2017)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
American Creek	1050	2.1	3.0	---	---
Atigun Pass	4800	2.2	3.0	3.9	56%
Chandalar Camp	3300	No Survey	3.3	3.1	---
Eagle Summit	3650	2.8	4.0	3.9	72%
Fort Yukon	430	1.9	3.1	2.6	73%
Jack Wade Jct	3585	2.2	5.4	---	---
Upper Nome Creek	2520	3.9	4.0	3.7	105%

Tanana Basin



Snowpack

Winter started dry in the Tanana Valley. Most sites received less than a quarter of normal precipitation in October. November, likewise, was dry with most sites receiving less than half of normal November precipitation. December, however, was a different story. Several small storms and one large storm at the end of the month deposited from near normal precipitation in parts of the valley to between 200-300% of normal in most of the Chena Basin near Fairbanks. Even though this above normal precipitation trend continued into January, most sites in the Tanana Valley remain below normal for the Water Year.

The snowpack varies greatly across the Tanana Valley, ranging from 63% of normal in the upper Valley near Tok, to over 150% of normal near Fairbanks.

The three sites measured above Tok averaged 52% of normal. Chisana SNOTEL had only 5" of snow on February 1st, just 29% of normal water content. The snowpack becomes more normal down valley near Delta Junction. The 5 snow sites in this area average 84% of normal.

Like last year, the snowpack really perks up near Fairbanks. The Fairbanks FO SNOTEL site is recording 148% of normal water content, with 20" of snow and 3.7" of water content. The Chena and Chatanika Valleys both report above normal snowpacks.

Precipitation

Inches Accumulated since October 1st (as of February 1, 2017)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Chisana	3320	1.0	2.9	---	---
Fairbanks F.O.	450	4.7	3.4	3.3	142%
Granite Crk	1240	2.1	1.6	3.2	66%
Kantishna	1550	2.8	4.6	3.5	80%
Little Chena Ridge	2000	3.2	3.6	4.1	78%
Nenana	415	2.9	2.6	---	---
Tok	1630	---	1.9	---	---
Upper Chena	2850	5.2	4.9	4.8	108%

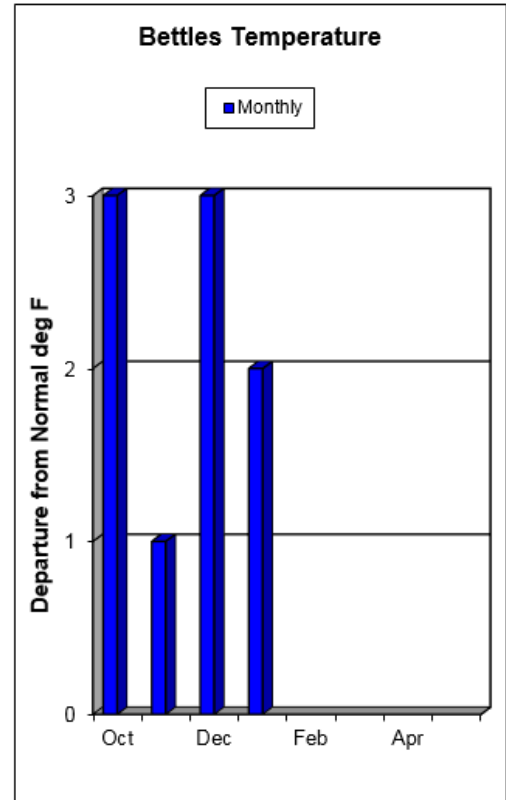
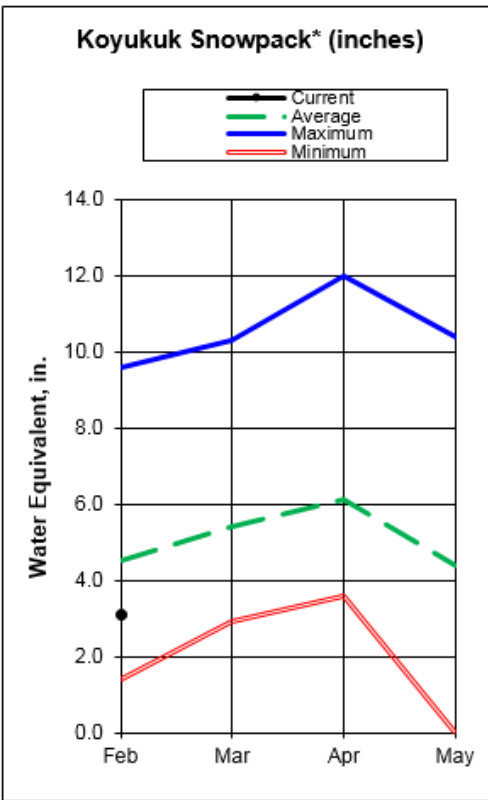
Tanana Basin

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
December 1st								
Bonanza Creek	1150	11/30/2016	3	0.3	20	4.5	---	---
Caribou Creek	1250	12/1/2016	3	0.3	14	2.7	12	1.6
Caribou Snow Pillow	900	12/1/2016	4	0.4	16	3.3	12	1.6
Chisana	3320	12/1/2016	1	0.1	14	2.5	---	1.9
Cleary Summit	2230	12/1/2016	6	0.6	27	5.2	---	---
Colorado Creek	700	11/30/2016	6	0.5	19	3.2	---	---
Fairbanks F.O.	450	12/1/2016	3	0.4	15	2.4	---	1.4
Faith Creek	1750	12/1/2016	5	0.4	22	3.5	8	1.5
Fort Greely	1500	11/29/2016	4	0.6	9	1.5	10	1.3
French Creek	1800	12/1/2016	6	0.4	22	4.3	16	2.6
Gerstle River	1200	11/29/2016	4	0.4	8	1.0	11	1.6
Granite Crk	1240	12/1/2016	3	0.5	7	1.2	---	1.6
Lost Creek	3030	11/29/2016	1	0.1	10	1.8	---	---
Monument Creek	1850	12/1/2016	4	1.0	21	3.7	---	1.8
Mt. Ryan	2800	12/1/2016	2	0.2	21	4.4	---	2.0
Munson Ridge	3100	12/1/2016	10	1.9	30	6.0	---	3.5
Shaw Creek Flats	980	12/1/2016	6	0.6	9	1.0	10	1.2
Teuchet Creek	1640	12/1/2016	4	0.4	13	2.9	---	1.6
January 1st								
Chisana	3320	1/1/2017	3	0.4	13	2.6	---	2.2
Fairbanks F.O.	450	1/1/2017	18	2.8	15	2.5	---	2.0
Granite Crk	1240	1/1/2017	8	1.4	9	1.7	---	2.2
Monument Creek	1850	1/1/2017	24	3.9	20	4.1	---	2.5
Mt. Ryan	2800	1/1/2017	13	1.7	21	5.0	---	2.7
Munson Ridge	3100	1/1/2017	28	5.0	29	6.7	---	4.1
February 1st								
Bonanza Creek	1150	2/1/2017	21	4.3	19	5.0	18	3.4
Caribou Creek	1250	1/31/2017	19	3.8	13	3.0	16	2.7
Caribou Snow Pillow	900	1/31/2017	19	3.8	16	3.8	17	2.9
Chisana	3320	2/1/2017	5	1.0	13	2.7	---	3.4
Fairbanks F.O.	450	2/1/2017	20	3.7	15	2.5	---	2.5
Fielding Lake	3000	1/31/2017	29	4.8	35	7.9	32	6.6
Fort Greely	1500	2/1/2017	14	2.2	11	2.5	14	2.4
French Creek	1800	2/1/2017	22	3.8	20	4.5	19	3.9
Gerstle River	1200	2/1/2017	13	2.0	10	1.6	16	2.4
Granite Crk	1240	2/1/2017	12	2.3	10	2.2	---	3.0
Kantishna	1550	2/2/2017	14	2.2*	20	3.9	20	3.2
Lake Minchumina	730	2/2/2017	15	2.1	17	3.3	15	2.1
Lost Creek	3030	1/31/2017	9	1.1	13	2.6	---	---
Mentasta Pass	2430	1/31/2017	14	2.6	18	3.8	22	4.0
Monument Creek	1850	2/1/2017	21	5.3	18	4.2	---	3.1
Mt. Ryan	2800	2/1/2017	17	3.0	21	5.3	---	3.6
Munson Ridge	3100	2/1/2017	30	6.6	29	7.0	---	5.0
Paradise Hill	2200	No Survey	---	---	10	1.3	15	2.4
Rock Creek Bottom	2250	2/2/2017	14	2.8	---	---	14	2.9
Shaw Creek Flats	980	2/1/2017	16	2.4	12	1.7	13	2.0
Teuchet Creek	1640	2/1/2017	18	3.6	15	3.3	---	2.8
Tok Junction	1650	1/31/2017	14	1.6	13	2.0	17	2.6

*Estimate

Western Interior Basins



Snow pack

Koyukuk

The Koyukuk Basin had a very dry start to the winter and precipitation for the winter remains much below normal. Snowpack is also below normal, varying from near normal close to the Brooks Range to near half normal in portions of the flats.

Kuskokwim

There are fewer sites reporting in the Kuskokwim basin this winter, but snowpack is below normal. Purkey Pile Mine is at 65% of normal with 15" of snow and 2.2" of water content, the lowest since 2013. Aniak SCAN had 13" of snow on February 1st, compared to 9" last year and the highest since 2013.

Lower Yukon

The snow measured around Galena is shallower and lighter than last year at this time.

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								
December 1st								
Bettles Field	640	12/1/2016	1	0.2	21	3.3	---	1.9
Bonanza Forks	1200	11/30/2016	4	0.6	14	2.2	---	---
Cloverleaf	170	12/1/2016	5	---	23	---	---	---
Coldfoot	1040	12/1/2016	5	0.4	20	3.8	---	2.1
Colville Bend	170	12/1/2016	5	---	24	---	---	---
Disaster Creek	1550	11/30/2016	5	1.0	13	2.0	---	---
Gobblers Knob	2030	12/1/2016	1	---	1	---	---	---
Huggins Creek	290	12/1/2016	6	---	---	---	---	---
Jr Slough	160	12/1/2016	5	---	17	---	---	---
Kanuti Lake	524	12/1/2016	0	0.0	11	---	---	---
Table Mountain	2200	11/30/2016	6	1.2	13	2.1	---	---
Treat Island	190	12/1/2016	8	---	23	---	---	---
January 1st								
Bettles Field	640	1/1/2017	14	1.7	24	3.8	---	3.0
Coldfoot	1040	1/1/2017	17	2.0	28	4.7	---	2.8
Gobblers Knob	2030	1/1/2017	10	---	2	---	---	---
Kanuti Lake	524	1/1/2017	11	---	13	---	---	---
February 1st								
Bettles Field	640	2/1/2017	16	2.3	25	4.3	---	4.3
Bonanza Forks	1200	2/1/2017	18	3.2*	15	2.8	21	3.8
Coldfoot	1040	2/1/2017	23	3.4	26	5.4	---	4.2
Disaster Creek	1550	2/1/2017	17	2.5	---	---	17	2.5
Gobblers Knob	2030	2/1/2017	2	---	0	---	---	---
Kaldoyeit	750	1/30/2017	22	3.9*	28	5.2	---	---
Kanuti Chalatna	670	1/30/2017	25	4.5*	24	4.3	---	---
Kanuti Kilolitna	550	1/30/2017	13	2.2*	18	3.4	---	---
Kanuti Lake	524	2/1/2017	11	1.8*	14	---	---	---
Minnkokut	580	1/30/2017	26	4.7*	37	6.9	---	---
Nolitna	560	1/30/2017	25	4.3*	18	3.3	---	---
Table Mountain	2200	2/1/2017	20	3.8*	---	---	18	3.0
Kuskokwim								
December 1st								
Aniak	80	12/1/2016	2	---	8	---	---	---
Canyon Lake	550	12/1/2016	6	---	10	---	---	---
Telaquana Lake	1550	12/1/2016	4	0.6	---	---	---	---
Telaquana Lake SNOTEL	1275	12/1/2016	2	0.5	15	3.8	---	---
January 1st								
Aniak	80	1/1/2017	10	---	10	---	---	3.0
Canyon Lake	550	1/1/2017	10	---	20	---	---	2.8
Telaquana Lake	1550	1/2/2017	9	---	---	---	---	---
Telaquana Lake SNOTEL	1275	1/1/2017	7	1.5	15	4.1	---	---
February 1st								
Aniak	80	2/1/2017	13	3.1*	9	---	---	---
Canyon Lake	550	2/1/2017	16	---	11	---	---	---
Mcgrath	340	2/1/2017	13	2.0*	---	---	---	---
Purkeypile Mine	2025	2/2/2017	15	2.2	23	5.0	19	3.4
Telaquana Lake	1550	2/2/2017	12	1.7	---	---	---	---
Telaquana Lake SNOTEL	1275	2/1/2017	11	2.3	16	4.9	---	---

*Estimate

Western Interior Basins

Snowpack Data—continued

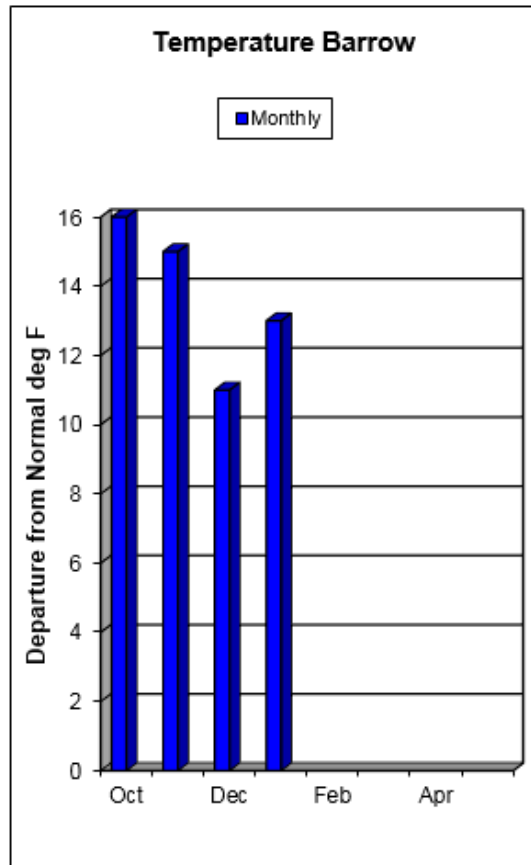
Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Lower Yukon								
December 1st								
Hozatka Lake	206	12/1/2016	2	---	---	---	---	---
Little Mud River	855	12/4/2016	6	---	---	---	---	---
Lower Nowitna River	205	12/4/2016	6	---	18	---	---	---
Middle Innoko	150	11/30/2016	4	---	14	---	---	---
Ninemile Island	140	11/30/2016	5	---	18	---	---	---
Pike Trap Lake	130	11/30/2016	5	---	7	---	---	---
Squirrel Creek	150	11/30/2016	6	---	29	---	---	---
Upper Innoko	180	11/30/2016	3	---	21	---	---	---
Wapoo Hills	220	11/30/2016	6	---	19	---	---	---
January 1st								
Hozatka Lake	206	1/1/2017	11	---	---	---	---	---
February 1st								
Galena Ecology Site	125	2/1/2017	12	2.0	---	---	---	---
Hozatka Lake SCAN	206	2/1/2017	11	1.7*	---	---	---	---
*Estimate								

*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1, 2017)					
Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Koyukuk					
Bettles Field	640	2.1	4.7	4.6	46%
Coldfoot	1040	2.7	4.5	4.3	63%
Gobblers Knob	2030	3.1	4.2	5.1	61%
Hozatka Lake	206	2.5	3.1	---	---
Kuskokwim					
Aniak	80	4.8	6.1	---	---
Telaquana Lake	1275	2.7	6.3	---	---
Lower Yukon					
Innoko Camp	83	Site down	6.6	---	---

Arctic and Kotzebue Sound



Snow pack

Arctic

The Arctic has below normal precipitation for the water year. Sagwon and Imnaviat had slightly below normal snow depth until a windstorm on January 31st scoured the snowpacks down to 8 inches of depth at both sites. The three precipitation sites along the Dalton Highway average 86% of normal precipitation for the water year. The seasonal snowpack at Imnaviat Creek, in the foothills of the Brooks Range, started on September 11th, about the same time as last year.

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
December 1st								
Atigun Pass	4800	12/1/2016	29	---	31	---	---	---
Imnaviat Creek	3050	12/1/2016	13	---	21	---	---	---
Kelly Station	310	12/1/2016	3	0.3	10	---	---	---
Prudhoe Bay	30	12/1/2016	3	---	3	---	---	---
Sagwon	1000	12/1/2016	6	---	15	---	---	---
January 1st								
Atigun Pass	4800	1/1/2017	32	---	38	---	---	---
Imnaviat Creek	3050	1/1/2017	14	---	21	---	---	---
Kelly Station	310	1/1/2017	13	1.8	11	---	---	---
Prudhoe Bay	30	1/1/2017	6	---	7	---	---	---
Sagwon	1000	1/1/2017	9	---	23	---	---	---
February 1st								
Atigun Pass	4800	2/1/2017	34	---	43	---	---	---
Imnaviat Creek	3050	2/1/2017	8	---	20	---	---	---
Kelly Station	310	2/1/2017	17	3.5	18	---	---	---
Prudhoe Bay	30	2/1/2017	12	---	7	---	---	---
Sagwon	1000	2/1/2017	8	---	15	---	---	---

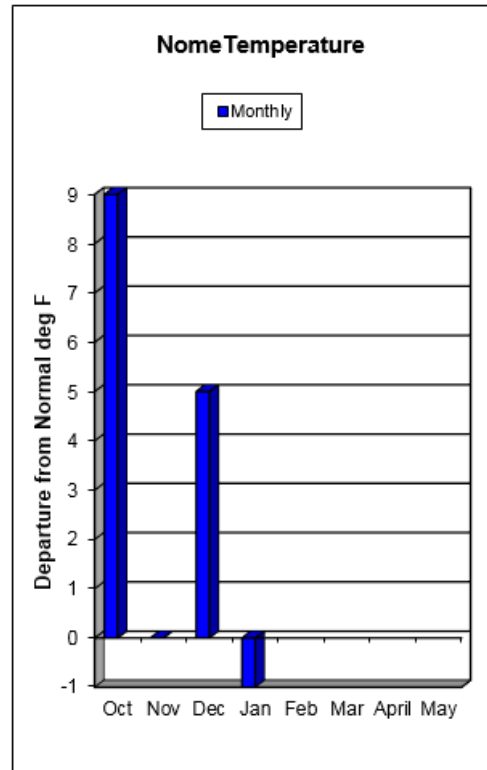
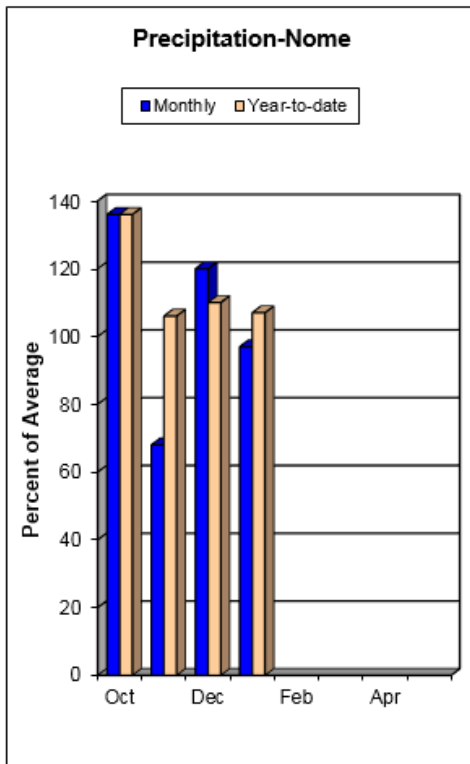
**Estimate*

Precipitation

Inches Accumulated since October 1st (as of February 1, 2017)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Arctic					
Atigun Camp	3400	<i>No Survey</i>	1.4	1.7	---
Atigun Pass	4800	2.2	3.0	3.9	56%
Imnaviat Creek	3050	1.9	1.3	2.1	90%
Prudhoe Bay	30	1.8	1.5	2.0	90%
Sagwon	1000	1.7	1.9	2.1	81%
Kotzebue Sound					
Port Red Dog	50	3.8	4.0	2.7	141%
Red Dog Mine	950	3.4	4.8	3.3	103%
Kelly Station	310	3.5	3.2	---	---

Norton Sound/Y-K Delta/Bristol Bay



Snow pack

Norton Sound

The Norton Sound area has received below normal precipitation. Snow depths at measurement sites on the Seward Peninsula are similar to last year at this time. The Unalakleet SCAN site had 7" of snow on February 1st, more than at any time last year.

Yukon Kuskokwim Delta

The Kanaryagak Camp SCAN site, located southeast of Chevak, has 8 inches of snow depth, compared to 12 inches last year and 8 inches for the year before. Precipitation at the NWS site in Bethel is below normal for the water year.

Bristol Bay

There is more snow in the lowlands of Bristol Bay than in several years. The Naknek River SCAN site had 14" of snow depth on Feb 1st, the most snow that has been measured since it was installed in 2014. Weary Lake SCAN, 20 miles northwest of Dillingham, had 28" of snow on Feb 1st, the most since 2013. Precipitation for the region is below normal.

Norton Sound/Y-K 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								
December 1st								
Canyon Lake	550	12/1/2016	6	---	10	---	---	---
Lower Mulchatna	320	12/1/2016	3	---	1	---	---	---
Naknek River	100	12/1/2016	10	---	0	0.0	---	---
Weary Lake	100	12/1/2016	10	---	5	---	---	---
January 1st								
Canyon Lake	550	1/1/2017	10	---	20	---	---	---
Lower Mulchatna	320	1/1/2017	2	---	2	---	---	---
Naknek River	100	1/1/2017	13	---	0	---	---	---
Weary Lake	100	1/1/2017	16	---	16	---	---	---
February 1st								
Canyon Lake	550	2/1/2017	16	---	11	---	---	---
Lower Mulchatna	320	2/1/2017	5	---	2	---	---	---
Naknek River	100	2/1/2017	14	---	0	0.0	---	---
Weary Lake	100	2/1/2017	29	9.0*	7	---	---	---
Norton Sound								
December 1st								
Checkers Creek	326	12/1/2016	1	---	9	---	---	---
Johnsons Camp	25	12/1/2016	2	---	4	---	---	---
Pargon Creek	100	12/1/2016	2	---	8	---	---	---
Rocky Point	250	12/1/2016	1	---	15	---	---	---
Unalakleet	290	12/1/2016	0	0.0	4	---	---	---
January 1st								
Checkers Creek	326	1/1/2017	3	---	10	---	---	---
Johnsons Camp	25	1/1/2017	3	---	3	---	---	---
Pargon Creek	100	1/1/2017	3	---	7	---	---	---
Rocky Point	250	1/1/2017	5	---	17	---	---	---
Unalakleet	290	1/1/2017	7	---	0	0.0	---	---
February 1st								
Checkers Creek	326	2/1/2017	11	---	10	---	---	---
Johnsons Camp	25	2/1/2017	21	---	6	---	---	---
Pargon Creek	100	2/1/2017	9	---	11	---	---	---
Rocky Point	250	2/1/2017	16	2.5*	21	---	---	---
Unalakleet	290	2/1/2017	6	---	0	0.0	---	---
Yukon-Kuskokwim Delta								
December 1st								
Kanaryagak Camp	13	12/1/2016	7	---	8	---	---	---
January 1st								
Kanaryagak Camp	13	1/1/2017	8	---	12	---	---	---
February 1st								
Kanaryagak Camp	13	2/1/2017	8	---	13	---	---	---

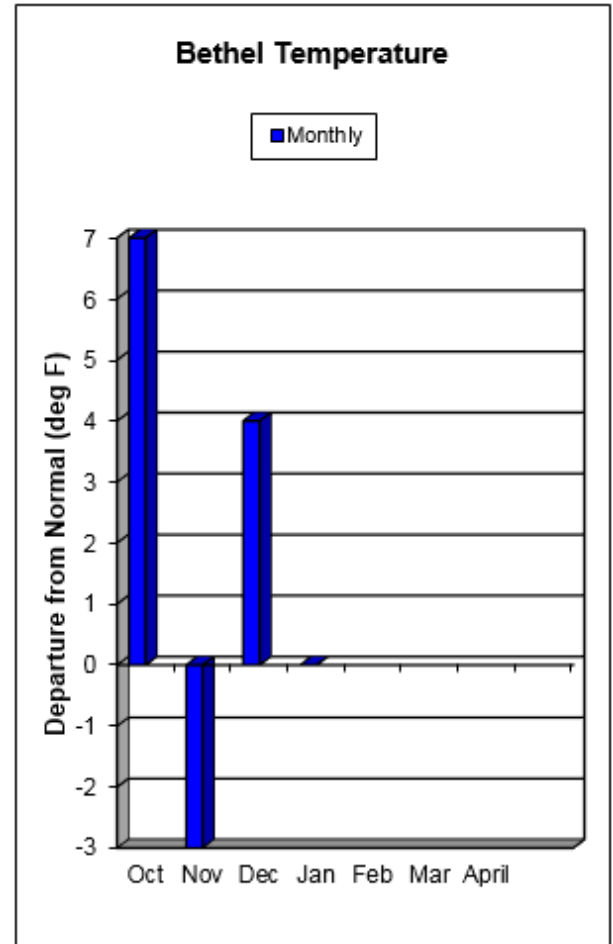
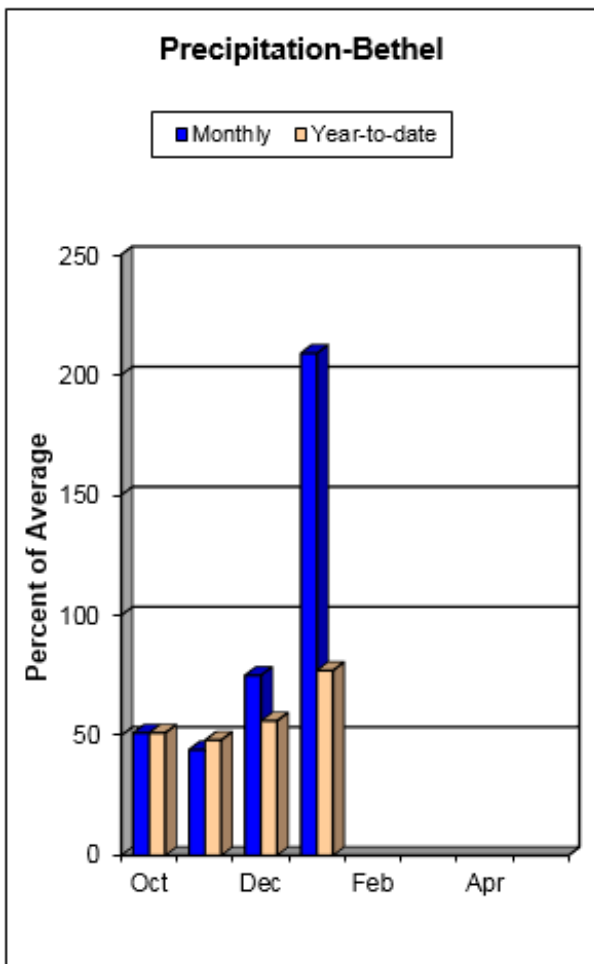
*Estimate

Norton Sound/Y-K Delta/Bristol Bay

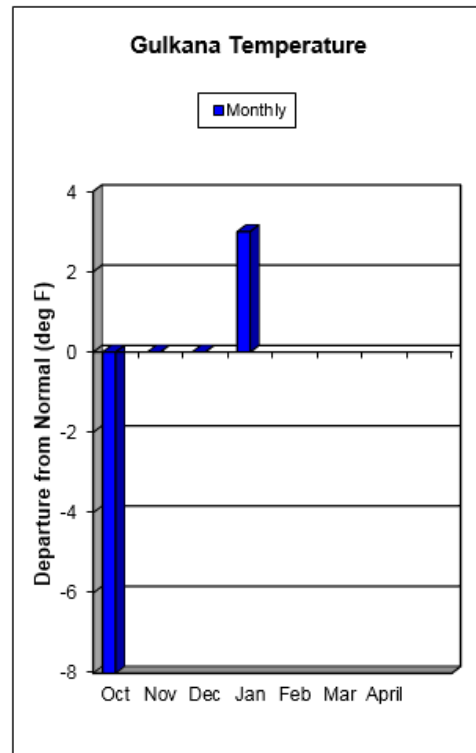
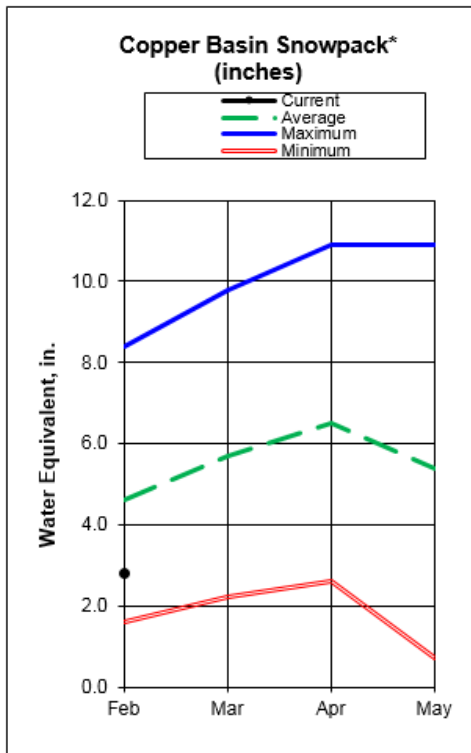
Precipitation

Inches Accumulated since October 1st

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Bristol Bay					
Lower Mulchatna	320	3.9	8.5	---	---
Naknek River	100	3.3	9.3	---	---
Weary Lake	100	16.1	27.8	---	---
Norton Sound					
Checkers Creek	326	1.6	2.4	---	---
Pargon Creek	100	3.5	6.8	3.9	90%
Rocky Point	250	2.7	5.4	4.1	66%
Unalakleet	290	3.8	4.8	---	---
Yukon - Kuskokwim Delta					
Kanaryagak Camp	13	3.0	3.5	---	---



Copper Basin



Snow pack

The snowpack in the Copper Basin is generally below normal. Like other parts of the state, winter in the Copper Valley started off dry, with less than a quarter normal precipitation during October. November had closer to normal precipitation, while December was again drier. January also had below, but closer to normal precipitation.

The eleven sites measured in the Copper Valley averaged 79% of normal on February 1st, down from 94% last year.

The Alaska Range courses averaged 69% of normal, down from 104% last year. Paxson snow course measured at 22 inches of snow with 3.6 inches of water content, the same depth, but 1.2 inches drier than last year at this time.

The basin floor snowpack was below normal, with its seven sites averaging 78% of normal, similar to last year. The low snowpack continues west into the eastern Talkeetnas where Sheep Mountain was 55% of normal with 15 inches of depth and 2.2 inches of water content.

The Chugach Range sites average 89% of normal. The Upper Tsaina SNOTEL site has received only 51% of normal precipitation for the Water Year.

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
December 1st								
Chokosna	1550	11/30/2016	5	0.5	0	0.0	---	---
Copper Center	1264	11/28/2016	10	1.0	7	1.2	---	---
Kenny Lake School	1300	12/1/2016	10	1.0	6	1.3	10	1.3
Little Nelchina	2650	12/1/2016	7	0.8	8	1.0	12	1.5
Lost Creek	3030	11/29/2016	1	0.1	10	1.8	---	---
May Creek	1610	12/1/2016	7	1.0	12	2.6	---	2.0
Tazlina	1250	12/1/2016	8	1.0	6	1.3	9	1.1
Tolsona Creek	2000	12/1/2016	7	1.0	11	1.7	11	1.8
Upper Tsaina River	1750	12/1/2016	25	4.5	22	5.9	---	5.2
January 1st								
May Creek	1610	1/1/2017	12	1.8	13	3.0	---	3.0
Tsaina River	1650	1/3/2017	33	6.3	---	---	---	---
Upper Tsaina River	1750	1/1/2017	39	7.5	45	9.3	---	9.3
Worthington Glacier	2100	1/3/2017	44	9.9	---	---	---	---
February 1st								
Chistochina	1950	1/31/2017	15	2.1	17	2.8	17	2.6
Chokosna	1550	1/29/2017	14	1.9	6	1.1	---	---
Copper Center	1264	1/30/2017	19	2.9	12	2.2	---	---
Fielding Lake	3000	1/31/2017	29	4.8	35	7.9	32	6.6
Haggard Creek	2540	1/31/2017	19	3.1	16	2.4	23	4.1
Kenny Lake School	1300	2/1/2017	15	2.7	8	1.8	14	2.6
Little Nelchina	2650	2/1/2017	14	1.9	15	2.3	22	3.9
Long Glacier	4820	2/1/2017	19	3.3*	29	5.9	---	---
Lost Creek	3030	1/31/2017	9	1.1	13	2.6	---	---
May Creek	1610	2/1/2017	16	2.6	16	3.4	---	3.7
Mentasta Pass	2430	1/31/2017	14	2.6	18	3.8	22	4.0
Paxson	2650	1/31/2017	22	3.6	22	4.8	27	5.3
Tazlina	1250	2/1/2017	17	3.0	10	2.2	15	2.8
Tebay Lake	1930	2/1/2017	44	9.7*	66	15.2	---	---
Tolsona Creek	2000	2/1/2017	16	2.6	16	2.8	18	3.2
Tsaina River	1650	2/1/2017	42	9.3	54	12.8	48	11.2
Upper Tsaina River	1750	2/1/2017	51	11.0	59	13.9	---	12.9
Worthington Glacier	2100	2/1/2017	62	16.0	71	18.1	60	16.8

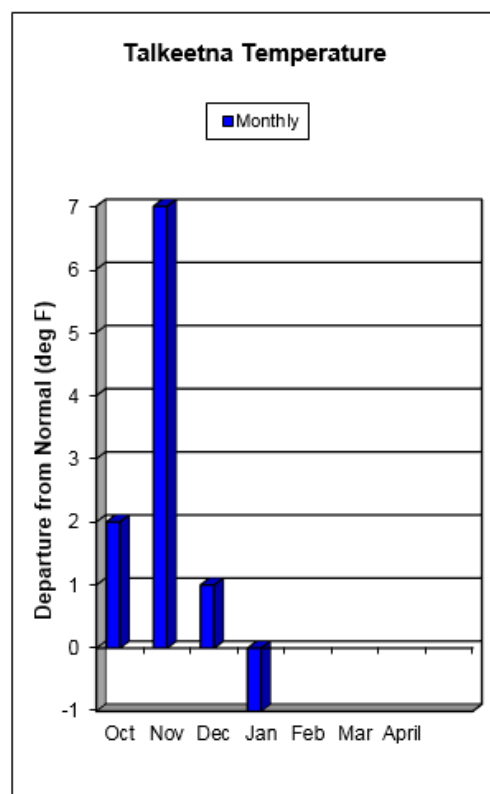
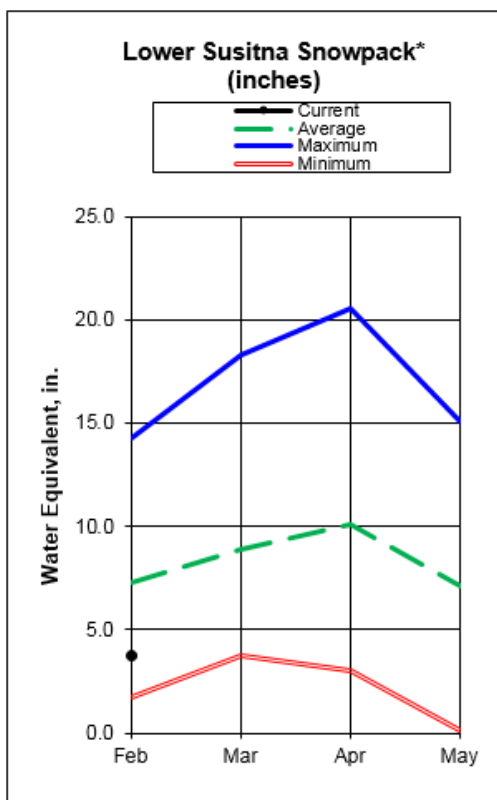
*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1st)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
May Creek	1610	2.6	6.7	4.7	55%
Upper Tsaina River	1750	11.7	18.8	19.9	59%

Matanuska—Susitna Basin



Snow pack

The winter started dry in the Matanuska-Susitna Basins with sites receiving 10-40 percent of normal precipitation in October and November. December brought more, but still below normal precipitation while in January things turned around. Several sites around the basins received normal to well above normal precipitation.

The snowpack across the Matanuska and Susitna Basins is below normal. The 19 snow measurement sites across the area averaged 66% of normal, compared to 110% of normal last year. Only a few of the lower basin snow sites, which were rained on last year, had more snow this year.

The lower Susitna Basin snow courses average to 73% of normal, down from 79% last year. The Talkeetna Snow Course has 22" of snow with 3.7" of water content, compared to 18" of depth and 4.2" of water content last year.

The Upper Susitna Basin snowpack has about half as much snow this year as last year. The four snow sites in this area average only 55% of normal on February 1st.

In the Matanuska Basin, the snowpack in the southern Talkeetna Mountains is below normal. The five sites here average 63% of normal snowpack. Snow depths are more consistent this year compared to last year, because many of the storms which have come through have seen snow down to sea level, unlike last year when low elevation sites received plenty of rain. Independence Mine snow course at 3500' feet above sea level has 42" of snow, only 10" more than Little Susitna Snow Course at 1700'. Last year at this time there was a 27" difference.

Snowpack Data

Matanuska—Susitna Basin

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
December 1st								
Alexander Lake SNOTEL	160	12/1/2016	2	0.6	22	5.8	---	---
Archangel Road	2200	12/1/2016	8	1.2	33	7.6	---	4.6
Blueberry Hill	1200	11/30/2016	5	0.6	48	10.4	---	---
Denali View	700	11/30/2016	0	0.0	26	6.2	18	3.4
E. Fork Chulitna	1770	11/30/2016	10	1.8	50	9.4	20	3.9
Fishhook Basin	3300	12/1/2016	10	1.6	58	14.2	28	6.3
Halfway Slough	350	11/30/2016	0	0.0	14	3.2	---	---
Horsepasture Pass	4300	12/1/2016	4	---	12	---	---	---
Independence Mine	3550	12/1/2016	11	1.7	67	17.2	31	6.8
Independence Mine SNOTEL	3550	12/1/2016	5	1.9	---	11.5	---	4.2
Lake Louise	2400	12/1/2016	8	0.6	10	1.3	12	1.6
Little Susitna	1700	12/1/2016	7	1.1	26	5.7	20	3.4
Monahan Flat	2710	12/1/2016	7	1.0	28	---	---	---
Sheep Mountain	2900	12/1/2016	8	0.7	10	1.3	14	1.8
Susitna Valley High	375	12/1/2016	1	0.3	14	4.9	---	2.9
Talkeetna	350	11/30/2016	0	0.0	15	3.9	13	1.8
Tokositna Valley	850	12/1/2016	3	1.4	31	8.6	---	4.3
Willow Airstrip	200	11/30/2016	0	0.0	15	2.6	16	2.5

January 1st

Alexander Lake SNOTEL	160	1/1/2017	9	1.6	24	6.9	---	---
Horsepasture Pass	4300	1/1/2017	10	---	16	---	19	3.6
Independence Mine SNOTEL	3550	1/1/2017	23	5.0	46	12.9	---	5.9
Monahan Flat	2710	1/1/2017	17	2.3	32	---	---	---
Susitna Valley High	375	1/1/2017	11	1.8	18	5.7	---	5.0
Tokositna Valley	850	1/1/2017	18	3.4	40	11.5	---	6.0

**Estimate*

Matanuska—Susitna Basin

Snowpack Data —continued

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
February 1st								
Alexander Lake	160	No Survey	---	---	34	8.7	37	8.0
Alexander Lake SNOTEL	160	2/1/2017	20	2.7	26	7.5	---	---
Archangel Road	2200	1/30/2017	35	7.1	41	11.2	38	10.0
Blueberry Hill	1200	1/31/2017	44	5.9	47	13.4	43	10.7
Chelatna Lake	1450	2/1/2017	38	5.7*	22	5.3	38	8.6
Denali View	700	1/31/2017	34	5.0	32	8.5	35	8.8
Dunkle Hills	2700	2/1/2017	25	4.1*	48	13.7	---	---
Dutch Hills	3100	2/1/2017	64	9.3*	52	15.7	62	18.0
E. Fork Chulitna	1770	1/31/2017	41	5.8	44	12.5	41	9.5
Fishhook Basin	3300	1/30/2017	38	7.2	57	16.9	46	12.5
Halfway Slough	350	1/31/2017	23	3.7	16	3.8	---	---
Horsepasture Pass	4300	2/1/2017	10	1.6*	18	3.2	27	4.6
Independence Mine	3550	1/30/2017	42	8.3	63	20.1	52	14.5
Independence Mine SNOTEL	3550	2/1/2017	36	8.1	48	14.2	---	8.6
Lake Louise	2400	2/1/2017	15	1.9	14	2.2	19	3.0
Little Susitna	1700	1/30/2017	32	5.9	36	8.8	34	8.0
Monahan Flat	2710	2/1/2017	12	3.3	33	---	---	---
Nugget Bench	2010	2/1/2017	45	7.1*	31	8.7	42	10.8
Ramsdyke Creek	2220	2/1/2017	76	12.2	57	17.2	56	15.5
Sheep Mountain	2900	2/1/2017	15	2.2	17	3.1	21	4.0
Susitna Valley High	375	2/1/2017	24	4.4	19	6.1	---	6.3
Talkeetna	350	1/31/2017	22	3.7	18	4.2	24	4.8
Tokositna Valley	850	2/1/2017	54	7.5	45	13.2	---	8.5
Willow Airstrip	200	1/31/2017	25	4.2	18	3.8	25	4.9

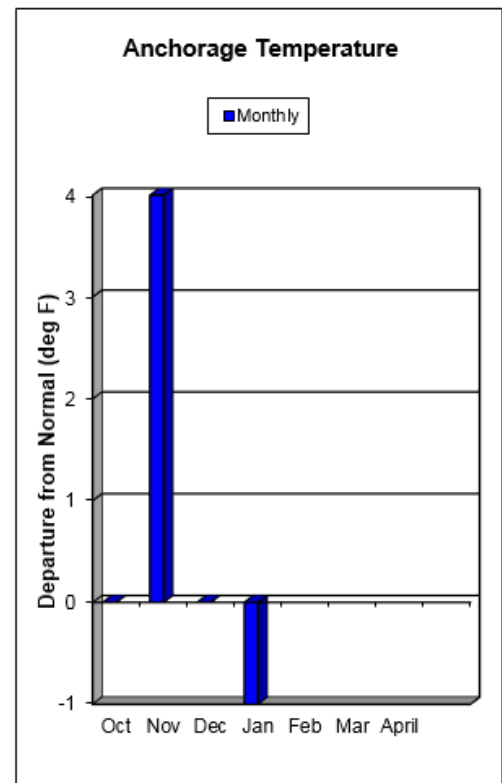
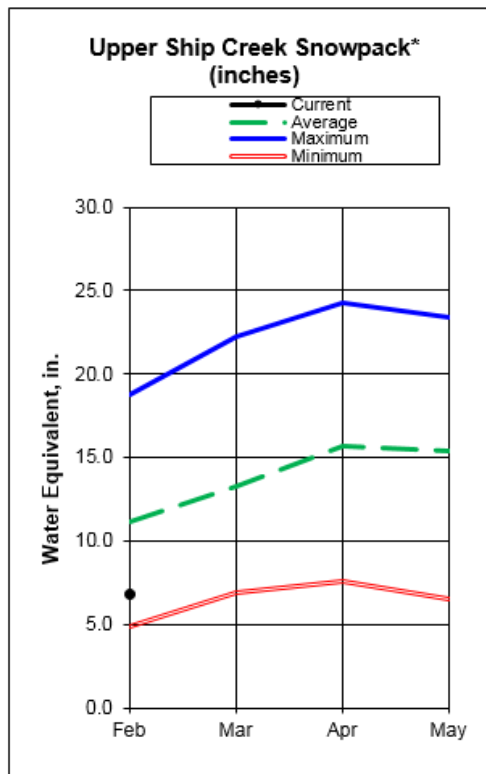
**Estimate*

Precipitation

Inches Accumulated since October 1st (as of February 1st)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Alexander Lake	160	4.4	14.7	---	---
Independence Mine	3550	8.1	15.7	11.0	74%
Monahan Flat	2710	2.7	6.6	5.8	47%
Susitna Valley High	375	5.0	9.7	8.8	57%
Tokositna Valley	850	8.5	17.5	15.2	56%

Northern Cook Inlet



Snow pack

Winter started out dry with many sites receiving only a quarter to half of normal October and November precipitation. December fared a little wetter though several sites measured only half of normal precipitation. January delivered, however. Sites across the basin measured between 130% and 270% of normal precipitation for the month, most of it coming as snow. Total precipitation numbers for the Water Year are still only 65% of normal.

This explains why the seven snow sites measured this month only averaged 70% of normal. Last year at this time the same sites measured 56% of normal, not a substantial difference in numbers. The bigger difference is in spatial distribution. Less overall precipitation keeps snow values low in high elevations which would have received all the precipitation as snow, but since more of winter's precipitation came later during colder weather, the lower elevation sites gained more snow. Kincaid Park snow course, at 250' of elevation had 19" of snow and 3.8" of water content, 123% of normal and considerably more than last year's 1" of snow and 0.2" of water content. Compare that to Anchorage Hillside SNOTEL at 2080' of elevation at 77% of normal with 26" of snow and 5.5" of water content, while last year it had 19" and 4.3" of water content.

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
December 1st								
Anchorage Hillside	2080	12/1/2016	1	0.1	8	2.0	---	3.5
Indian Pass	2350	12/1/2016	6	1.2	---	5.0	---	6.3
Kincaid Park	250	12/1/2016	7	0.8*	3	0.8	7	1.2
Moraine	2100	12/1/2016	0	0.0	4	1.5	---	2.3
Mt. Alyeska	1540	Site Down	---	---	12	4.5	---	7.5
Portage Valley	50	12/1/2016	20	3.2*	0	0.0	14	2.8
South Campbell Creek	1200	12/1/2016	4	0.4*	4	1.0	12	2.2
January 1st								
Anchorage Hillside	2080	1/1/2017	9	2.2	17	3.2	---	5.7
Indian Pass	2350	1/1/2017	20	4.0	---	8.0	---	12.3
Moraine	2100	1/1/2017	4	0.5	12	2.7	---	4.5
Mt. Alyeska	1540	1/1/2017	25	5.0	38	11.4	---	14.7
February 1st								
Anchorage Hillside	2080	2/1/2017	26	5.5	19	4.3	---	7.1
Indian Pass	2350	2/1/2017	39	9.3*	44	12.6	---	16.6
Kincaid Park	250	2/1/2017	19	3.8	1	0.2	15	3.1
Moraine	2100	2/1/2017	21	3.9	18	3.9	---	5.4
Mt. Alyeska	1540	2/1/2017	41	10.9	44	15.3	---	20.8
Portage Valley	50	1/27/2017	39	9.6	0	0.0	26	8.4
South Campbell Creek	1200	2/1/2017	21	3.5	4	0.9	20	4.7
*Estimate								

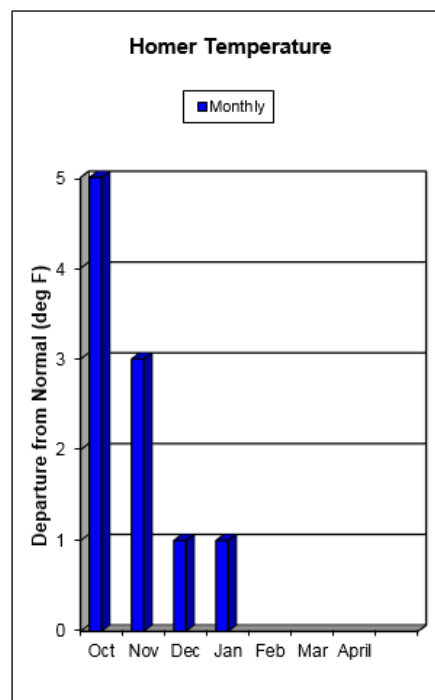
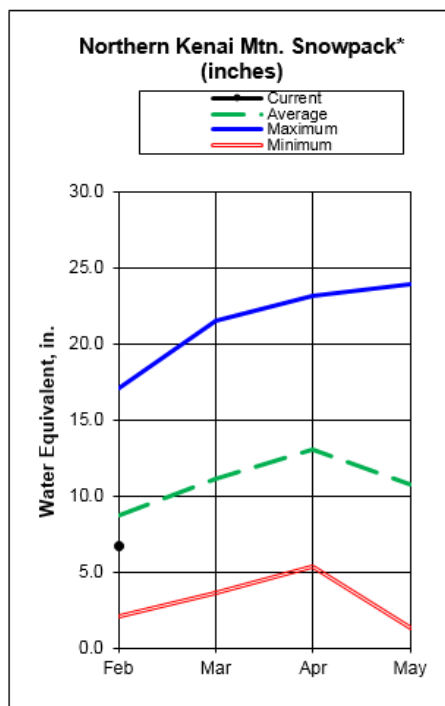
*Estimate

Precipitation

Inches Accumulated since October 1st

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Anchorage Hillside	2080	6.1	7.8	10.3	59%
Indian Pass	2350	13.2	17.3	18.3	72%
Moraine	2100	5.0	6.3	8.5	59%
Mt. Alyeska	1540	<i>Site Down</i>	34.9	33.5	---

Kenai Peninsula



Snow pack

The Kenai Peninsula water year started slow in October, with sites measuring 27-80% of normal precipitation for the month. November was wetter and most sites collected normal to much above normal precipitation. December was dry again, less than 60% normal at most locations. January precipitation was varied and sites collected between 70-150% of normal precipitation. To date for this winter, most Kenai sites have received near 80% of normal precipitation.

The Peninsula's 17 snow sites average 76% of normal compared to 86% last year and 22% two years ago. Because of the colder and drier conditions this year snow is more evenly distributed than last year. Low elevation sites have more snow than last year and high elevation sites, less.

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
December 1st								
Anchor River Divide	1653	12/1/2016	10	1.7	7	2.5	---	2.9
Bertha Creek	950	12/3/2016	11	2.1*	11	1.6	---	---
Bridge Creek	1300	12/1/2016	10	1.6	0	0.0	12	1.5
Cooper Lake	1200	12/1/2016	9	2.0	6	2.8	---	3.2
Demonstration Forest	780	12/1/2016	6	0.7	0	0.0	8	1.0
Exit Glacier	400	12/1/2016	11	1.4	---	---	18	3.2
Exit Glacier SNOTEL	400	12/1/2016	8	1.1	1	0.4	---	3.5
Grandview	1100	12/1/2016	18	3.6	17	3.9	---	5.3
Grouse Creek Divide	700	12/1/2016	6	1.3	5	2.4	---	2.9
Jean Lake	620	12/2/2016	10	1.3*	0	0.0	8	1.0
Kachemak Creek	1660	11/29/2016	11	1.6	---	---	---	---
Kenai Moose Pens	300	12/1/2016	2	0.3	5	1.2	---	1.2
Kenai Summit	1390	12/3/2016	9	1.6*	15	2.5	20	4.0
Lower Kachemak Creek	1915	12/1/2016	10	---	10	---	---	---
Mcneil Canyon	1320	12/1/2016	8	1.1	0	0.0	---	1.9
Middle Fork Bradley	2300	12/1/2016	18	---	25	---	---	---
Moose Pass	700	12/3/2016	11	1.9	1	0.2	11	1.6
Mt. Alyeska	1540	Site down	---	---	12	4.5	---	7.5
Nuka Glacier	1250	11/29/2016	10	1.6*	13	3.2	14	4.2
Port Graham	300	12/1/2016	3	0.6	0	0.0	---	0.5
Portage Valley	50	12/1/2016	20	3.2*	0	0.0	14	2.8
Snug Harbor Road	500	12/2/2016	6	0.9*	0	0.0	8	1.0
Summit Creek	1400	12/1/2016	4	0.8	10	3.5	---	2.6
Turnagain Pass	1880	12/1/2016	23	5.0	24	6.2	---	7.4
January 1st								
Anchor River Divide	1653	1/1/2017	20	3.8	29	7.2	---	5.9
Cooper Lake	1200	1/1/2017	14	3.6	17	4.8	---	8.2
Exit Glacier SNOTEL	400	1/1/2017	15	3.0	15	5.4	---	8.0
Grandview	1100	1/1/2017	---	7.2	45	12.3	---	14.2
Grouse Creek Divide	700	1/1/2017	16	3.9	27	8.3	---	8.3
Kenai Moose Pens	300	1/1/2017	9	1.3	7	1.8	---	2.5
Lower Kachemak Creek	1915	1/1/2017	13	---	10	---	---	---
Mcneil Canyon	1320	1/1/2017	17	3.0	16	5.4	---	4.7
Middle Fork Bradley	2300	1/1/2017	34	---	43	---	---	---
Mt. Alyeska	1540	1/1/2017	25	5.0	38	11.4	---	14.7
Port Graham	300	1/1/2017	6	1.8	6	2.2	---	3.5
Summit Creek	1400	1/1/2017	12	1.8	19	5.4	---	6.2
Turnagain Pass	1880	1/1/2017	39	9.3	74	17.2	---	15.3

**Estimate*

Kenai Peninsula

Snowpack Data – continued

Site Name	Elev.	Date	This Year		Last Year		1981-2010 Normal	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
February 1st								
Anchor River Divide	1653	2/1/2017	34	6.0	37	11.6	---	8.8
Bertha Creek	950	1/31/2017	33	7.8	31	9.9	44	12.4
Bridge Creek	1300	2/1/2017	35	6.6	15	4.4	30	7.4
Cooper Lake	1200	2/1/2017	46	8.1	21	7.5	---	11.3
Demonstration Forest	780	2/1/2017	19	3.6	5	1.6	20	4.8
Exit Glacier	400	2/1/2017	42*	10.4*	---	---	42	11.7
Exit Glacier SNOTEL	400	2/1/2017	43	9.3	19	7.4	---	11.7
Grandview	1100	2/1/2017	47*	11.9	54	20.9	---	19.7
Grouse Creek Divide	700	2/1/2017	44	10.3	28	11.7	---	12.3
Jean Lake	620	1/27/2017	16	1.9	2	0.4	14	3.0
Kenai Moose Pens	300	2/1/2017	16	2.4	11	2.8	---	3.6
Kenai Summit	1390	1/31/2017	33	5.8	35	9.9	37	9.6
Lower Kachemak Creek	1915	2/1/2017	13	---	21	---	---	---
Mcneil Canyon	1320	2/1/2017	28	5.6	17	6.6	---	7.1
Middle Fork Bradley	2300	2/1/2017	48	---	71	---	---	---
Moose Pass	700	1/31/2017	35	6.4	8	2.1	20	4.9
Mt. Alyeska	1540	2/1/2017	41	10.9	44	15.3	---	20.8
Port Graham	300	2/1/2017	16	4.7	0	0.0	---	4.8
Portage Valley	50	1/27/2017	39	9.6	0	0.0	26	8.4
Snug Harbor Road	500	1/27/2017	19	3.8	0	0.0	15	3.6
Summit Creek	1400	2/1/2017	25	5.0	27	7.6	---	8.1
Turnagain Pass	1880	2/1/2017	57	14.1	93	29.8	---	23.0

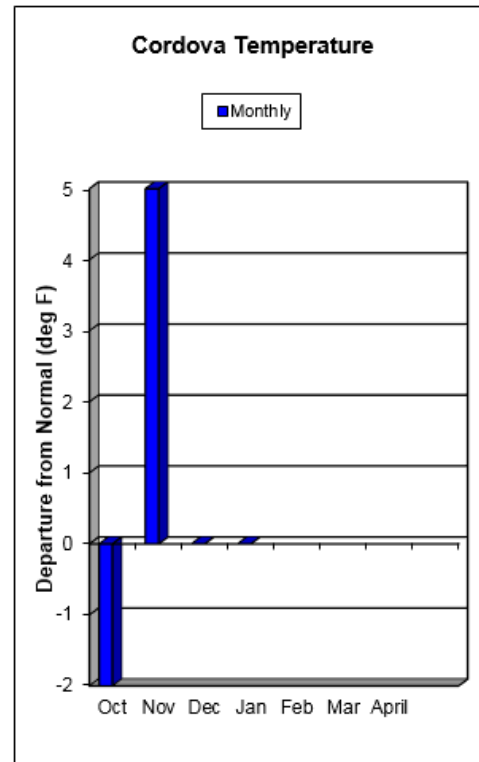
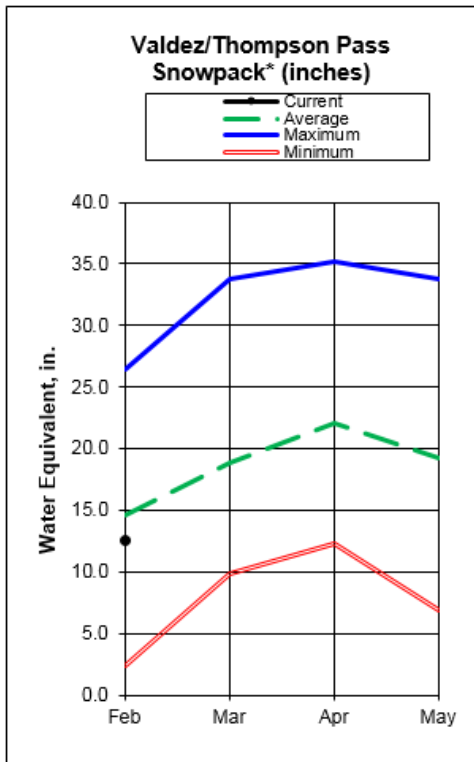
*Estimate

Precipitation

Inches Accumulated since October 1st

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Anchor River Divide	1653	11.5	17.9	12.5	92%
Cooper Lake	1200	13.0	19.0	20.0	65%
Grandview	1100	28.2	40.4	30.0	94%
Grouse Creek Divide	700	21.1	39.2	28.2	75%
Kachemak Creek	1660	28.8	49.7	30.6	94%
Kenai Moose Pens	300	3.8	6.5	6.3	60%
Mcneil Canyon	1320	11.0	14.9	13.0	85%
Middle Fork Bradley	2300	23.4	32.5	25.3	92%
Nuka Glacier	1250	32.1	52.3	41.3	78%
Port Graham	300	22.8	43.1	36.9	62%
Summit Creek	1400	8.9	14.7	11.9	75%
Turnagain Pass	1880	23.4	35.6	28.5	82%

Western Gulf



Snow pack

The Western Gulf of Alaska region has just below to near normal snowpack and below normal precipitation. Like the rest of Alaska, October was dry in Prince William Sound with sites measuring only a third of normal precipitation for the month. A wetter November was followed by a dry December. January brought varied precipitation with most sites just above or below normal.

The eight snow measurement sites in this area average 89% of normal, similar to last year's 90%. However, lower temperatures and less precipitation mean that the higher elevation sites have less snow than last year and lower elevation sites have more.

The Esther Island SNOTEL site, 20 miles east of Whittier at 50' of elevation, had 28" of snow on February 1st, after settling from 49" on January 23rd. This site had no snow last February 1st after a season high of 18" on December 15th.

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
December 1st								
Exit Glacier	400	12/1/2016	11	1.4	---	---	18	3.2
Exit Glacier SNOTEL	400	12/1/2016	8	1.1	1	0.4	---	3.5
Grouse Creek Divide	700	12/1/2016	6	1.3	5	2.4	---	2.9
Mt. Eyak	1405	12/1/2016	13	2.6	11	6.1	---	7.4
Nuka Glacier	1250	11/29/2016	10	1.6*	13	3.2	14	4.2
Sugarloaf Mountain	550	12/2/2016	22	6.8*	35	9.4	---	---
Upper Tsaina River	1750	12/1/2016	25	4.5	22	5.9	---	5.2
January 1st								
Exit Glacier	400	No Survey	---	---	15	4.2	32	8.0
Exit Glacier SNOTEL	400	1/1/2017	15	3.0	15	5.4	---	8.0
Grouse Creek Divide	700	1/1/2017	16	3.9	27	8.3	---	8.3
Lowe River	600	1/4/2017	23	4.7	---	---	---	---
Mt. Eyak	1405	1/1/2017	45	10.7	34	9.6	---	12.8
Sugarloaf Mountain	550	No Survey	---	---	46	12.0	41	---
Tsaina River	1650	1/3/2017	33	6.3	---	---	---	---
Upper Tsaina River	1750	1/1/2017	39	7.5	45	9.3	---	9.3
Valdez	50	1/4/2017	23	4.7	---	---	---	---
Worthington Glacier	2100	1/3/2017	44	9.9	---	---	---	---
February 1st								
Exit Glacier	400	2/1/2017	42*	10.4*	---	---	42	11.7
Exit Glacier SNOTEL	400	2/1/2017	43	9.3	19	7.4	---	11.7
Grouse Creek Divide	700	2/1/2017	44	10.3	28	11.7	---	12.3
Lowe River	600	2/1/2017	44	9.5	35	10.0	44	11.1
Mt. Eyak	1405	2/1/2017	63	18.5	30	11.1	---	17.9
Sugarloaf Mountain	550	2/2/2017	60	15.0	52	16.0	60	16.7
Tsaina River	1650	2/1/2017	42	9.3	54	12.8	48	11.2
Upper Tsaina River	1750	2/1/2017	51	11.0	59	13.9	---	12.9
Valdez	50	2/1/2017	42	9.8	31	10.1	42	11.4
Worthington Glacier	2100	2/1/2017	62	16.0	71	18.1	60	16.8
*Estimate								

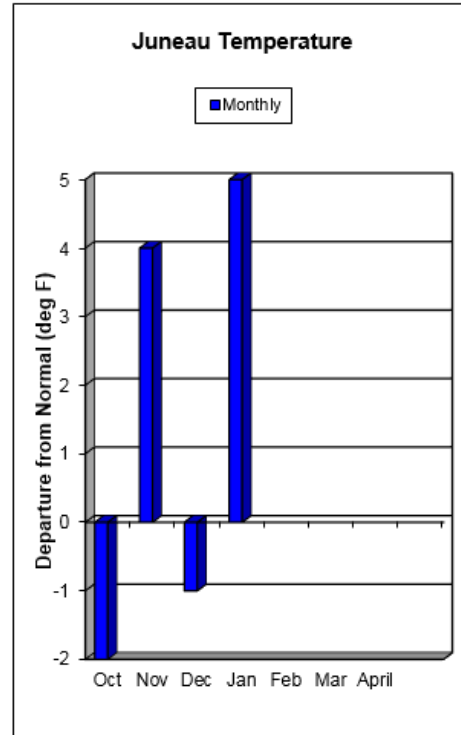
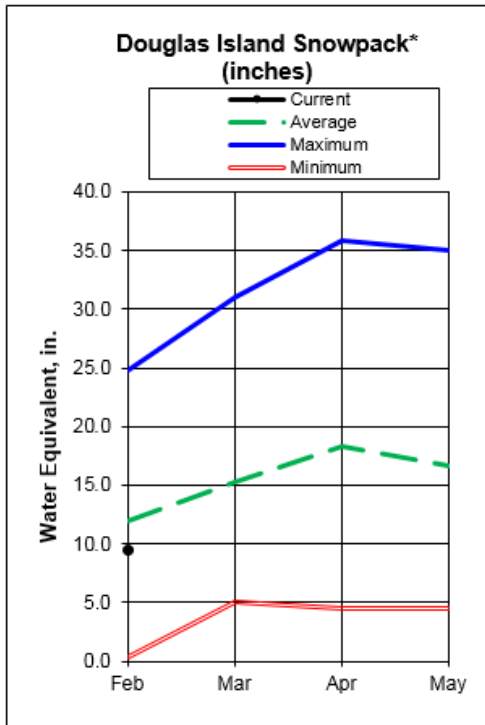
*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1, 2017)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Esther Island	50	41.9	93.0	60.7	69%
Grouse Creek Divide	700	21.1	39.2	28.2	75%
Mt. Eyak	1405	32.8	59.2	---	---
Nuchek	50	39.6	79.5	---	---
Nuka Glacier	1250	32.1	52.3	41.3	78%
Port San Juan	50	43.6	70.9	56.7	77%
Seal Island	20	17.8	40.7	---	---
Strawberry Reef	30	24.8	46.2	---	---
Sugarloaf Mtn	550	18.6	34.1	29.3	63%
Tatitlek	50	20.2	37.4	30.6	66%

Southeast



Snow pack

Many sites in Southeast Alaska experienced their driest October on record. This included Ketchikan (94 years of record), Petersburg and Juneau (75 years), and Yakutat (88 years). Then, November saw near normal precipitation across the region. December saw varied precipitation with some sites receiving normal precipitation and others half normal precipitation. January came and brought near normal precipitation to most of the region. Still, precipitation is below normal for the Water Year.

The snowpack in Southeast Alaska is below normal, but healthier than last year, which was healthier than the year before. The seven measured snow sites in Southeast averaged 83% of normal compared to 71% last year. Only the sites near Skagway have less snow this year.

Southeast

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
December 1st								
Cropley Lake	1650	12/2/2016	12	4.2	30	9.2	21	5.7
Eagle Crest	1200	12/2/2016	4	1.3	12	4.0	6	1.0
Fish Creek	500	12/2/2016	0	0.0	0	0.0	0	---
Heen Latinee	2065	12/1/2016	8	1.5	14	3.3	---	---
Institute Creek	1350	11/29/2016	4	0.7	14	3.2	---	---
Long Lake	850	12/1/2016	12	3.1	15	5.2	---	9.5
Moore Creek Bridge	2250	12/2/2016	24	3.4	36	7.4	22	4.2
Petersburg Reservoir	550	12/3/2016	0	0.0	0	0.0	---	---
Petersburg Ridge, S.	1650	12/3/2016	15	3.1	23	6.1	---	---
Rainbow Falls	500	11/29/2016	0	0.0	0	0.0	---	---
West Creek	475	12/2/2016	16	2.2	15	4.2	---	---
January 1st								
Heen Latinee	2065	1/1/2017	43	8.0	30	6.3	---	---
Long Lake	850	1/1/2017	55	16.6	48	12.0	---	15.9
Petersburg Reservoir	550	12/30/2017	17	4.1	18	2.2	9	1.3
Petersburg Ridge, S.	1650	12/29/2017	50	10.3	38	8.8	36	10.0
February 1st								
Cropley Lake	1650	2/3/2017	50	15.8	42	16.4	56	18.4
Eagle Crest	1200	2/3/2017	35	12.6	15	5.4	36	10.6
Fish Creek	500	2/3/2017	0	0.0	0	0.0	14	3.1
Heen Latinee	2065	2/1/2017	38	9.4	37	10.1	---	---
Institute Creek	1350	2/1/2017	27	9.9	4	1.0	---	---
Long Lake	850	2/1/2017	50	19.6	54	18.6	---	25.2
Moore Creek Bridge	2250	2/2/2017	47	13.0	52	14.0	54	13.6
Petersburg Reservoir	550	2/1/2017	7	2.4	0	0.0	16	3.7
Petersburg Ridge, S.	1650	1/31/2017	40	12.8	28	10.6	48	16.7
Rainbow Falls	500	2/1/2017	0	0.0	0	0.0	---	---
West Creek	475	2/2/2017	20	5.9	35	10.0	---	---
*Estimate								

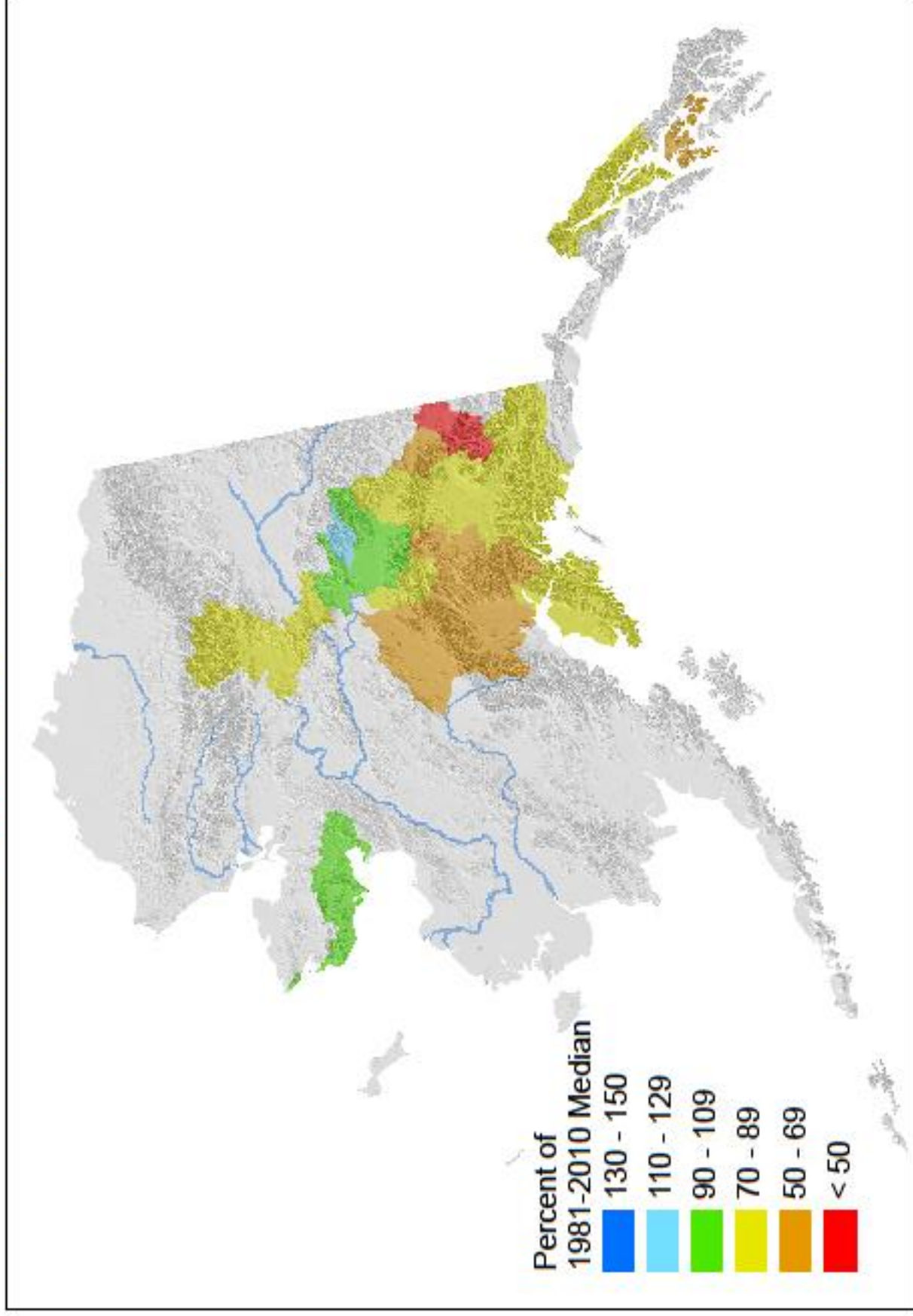
Precipitation Data

Inches Accumulated since October 1st (as of February 1, 2017)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Long Lake	850	64.3	76.9	75.0	86%
Heen Latinee	2065	25.5	29.1	---	---
Moore Creek Bridge	2250	18.3	23.0	20.1	91%

Alaska Snowpack as of February 1, 2017

Based on Snow Course and SNOTEL site Snow Water Content



For further information contact:

NRCS Alaska web site: www.nrcs.usda.gov/wps/portal/nrcs/main/ak/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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