

Alaska Snow Survey Report



United States Department of Agriculture
Natural Resources Conservation Service

February 1, 2018

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United States Department of Agriculture



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Cover photo: Snow Surveyor Brant Dallas takes notes at the Lake Louise Snow Course at the end of January, 2018.
The Snow Course had 25" of snow with 3.0" of water content, 157% of normal.

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General Overview

SnowPack

Snowpack across the state is a mixed bag. The snowpack across the state ranges from anemic to abundant. While the amount of precipitation certainly affected the robustness of the snowpacks, many areas with diminished snowpacks received near normal precipitation, but as rain instead of snow. Significant snowpack didn't start developing in many Southcentral locations until 3-6 weeks after normal. Other areas, like Southeast, started with a healthy snowpack, but December rains wilted the snowpack in the lower and mid-elevations.

Early season precipitation started the snow season off with a bang in the mountains of the Interior and northern Alaska. The Interior valleys' snow season took another month to begin -a little behind schedule- but abundant precipitation enabled the lower snowpacks to quickly catch up and in many places surpass normal snowpack conditions. Areas with above normal snowpacks include the Arctic, Koyukuk, Tanana, Copper, and parts of the Central Yukon River basins.

Alaska Statewide Snowpack	# of Sites	Basin Index	
		Current Percent of Median	Last Year Percent of Median
Central Yukon Basin	4	119	79
Tanana Basin	16	149	107
Koyukuk Basin	6	156	81
Kuskokwim Basin	2	66	—
Copper Basin	7	142	78
Matanuska-Susitna Basin	14	85	68
Northern Cook Inlet	7	42	67
Kenai Peninsula	17	54	76
Western Gulf of Alaska	8	84	91
Southeast Alaska	7	31	83

General Overview

Precipitation

October brought copious amounts of precipitation to much of the state. Most stations across the state were between 150% and 300% of average monthly precipitation. Only Southeast Alaska and portions of the western Gulf of Alaska lagged behind, with stations in these areas recording between 58% and near normal precipitation for the month. Thirty-year old SNOTEL stations in the Chena Basin experienced record high October precipitation. November continued to bring above normal precipitation to the state north of the Alaska Range while the southern half of the state dried out. Much of Southcentral and Southeast received less than one third normal November precipitation while the Interior and Arctic received between 150 and 200% normal precipitation.

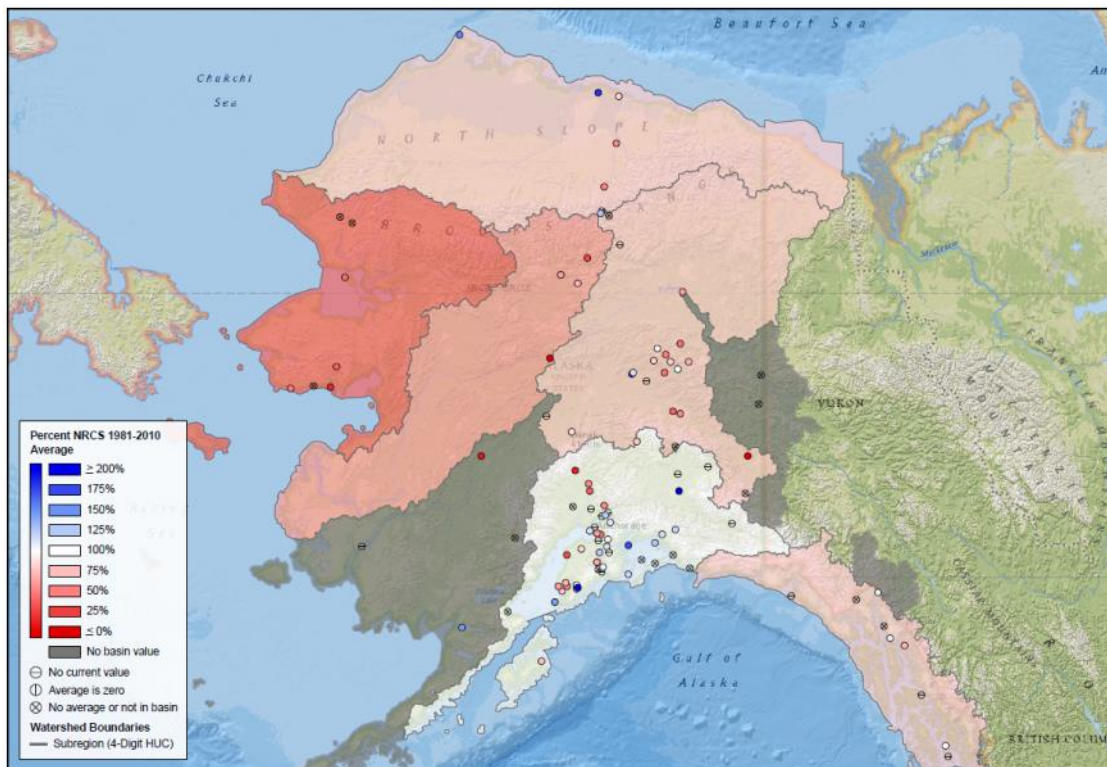
December brought amply variable, but generally above normal precipitation across the state. Southeast Alaska had near normal precipitation for the month while the western Gulf of Alaska had above normal precipitation as did western Alaska and parts of the Interior. Northern Cook Inlet and parts of the Tanana and Yukon Basin received below normal precipitation. January brought below normal precipitation across the state, with the exception being Prince William Sound, the Copper Valley and portions of the Kenai Peninsula. Most of the state received between half and just below normal precipitation.

Temperature

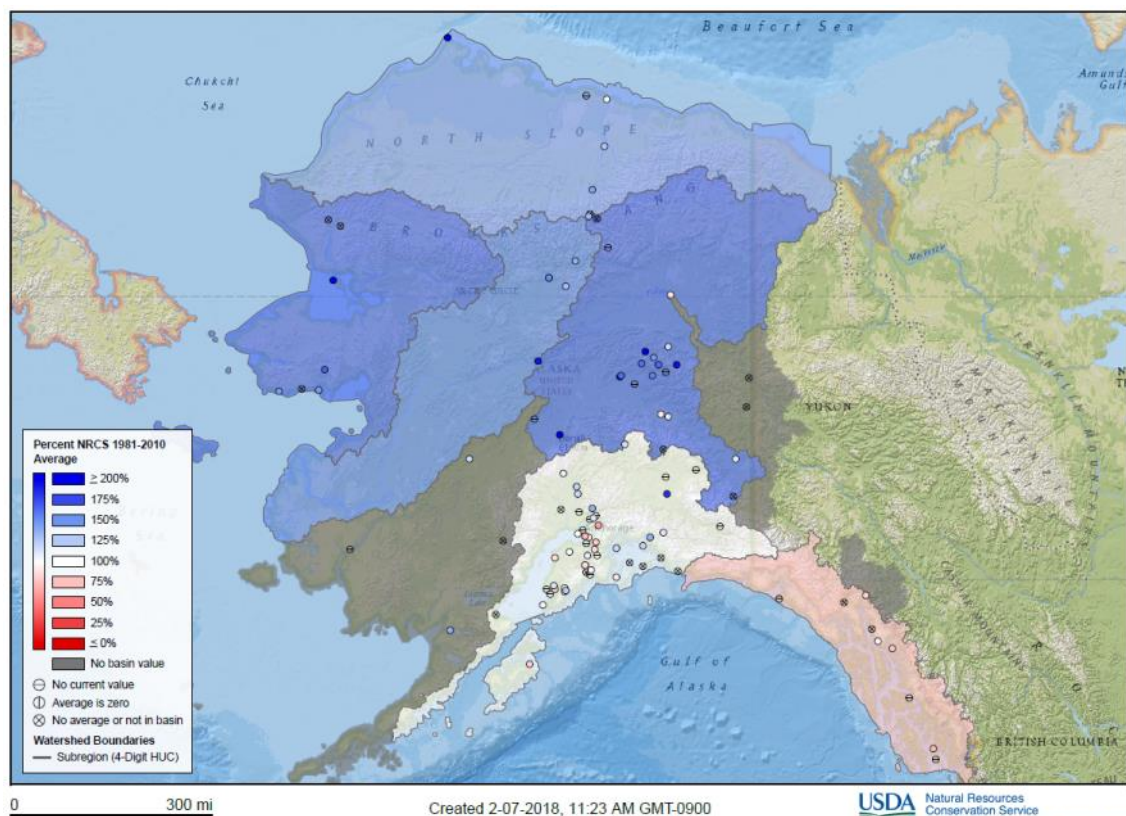
Starting in October, winter started with near or above normal temperatures across most of the state. Most locations across the state recorded monthly temperatures which were 3 to 6°F above normal for the month. However, Juneau was -1°F for the month and Barrow was +10°F. November brought an east-to-west gradient to the state. Eastern sites, like Juneau and Gulkana recorded below normal temperatures for the month. Southcentral, and the Interior were near normal, while the Arctic and western part of the state were much above normal. Both Nome and Bethel were 8°F above for November. December brought above normal temperatures across the entire state. Temperatures ranged from +3°F in Juneau for November to +19°F and +21°F for the month at Fort Yukon and Bettles. This trend dampened during January, but most of the state still saw temperatures 3 to 5°F above normal for the month. Barrow and Fort Yukon both came through January at +10°F above normal.

Alaska Statewide Precipitation Maps

Monthly Precipitation for January, 2018 (% of NRCS 81-2010 Average)

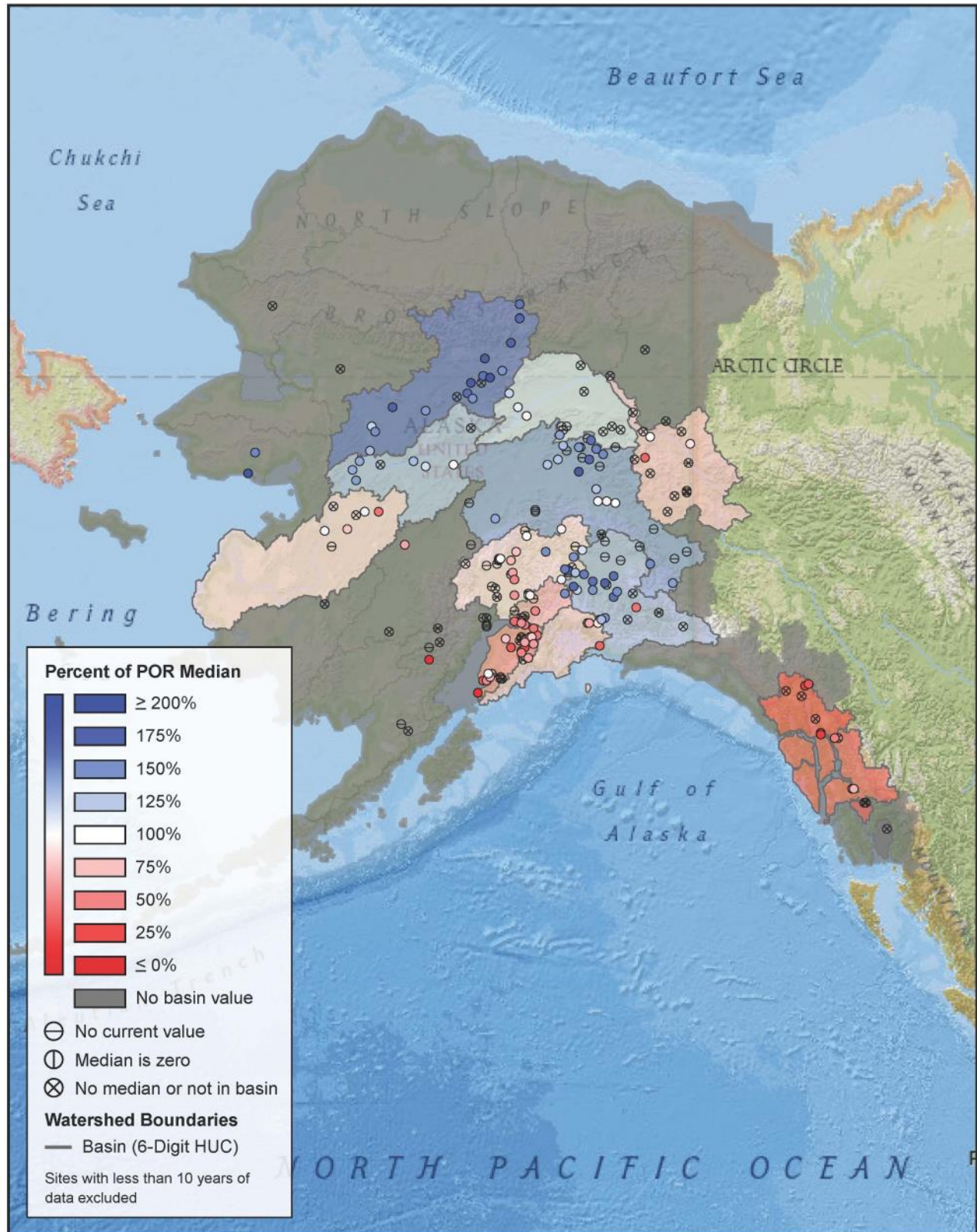


Water Year-to-date Precipitation (Oct. 1-Jan. 30, 2018) (% of NRCS 81-2010 Average)

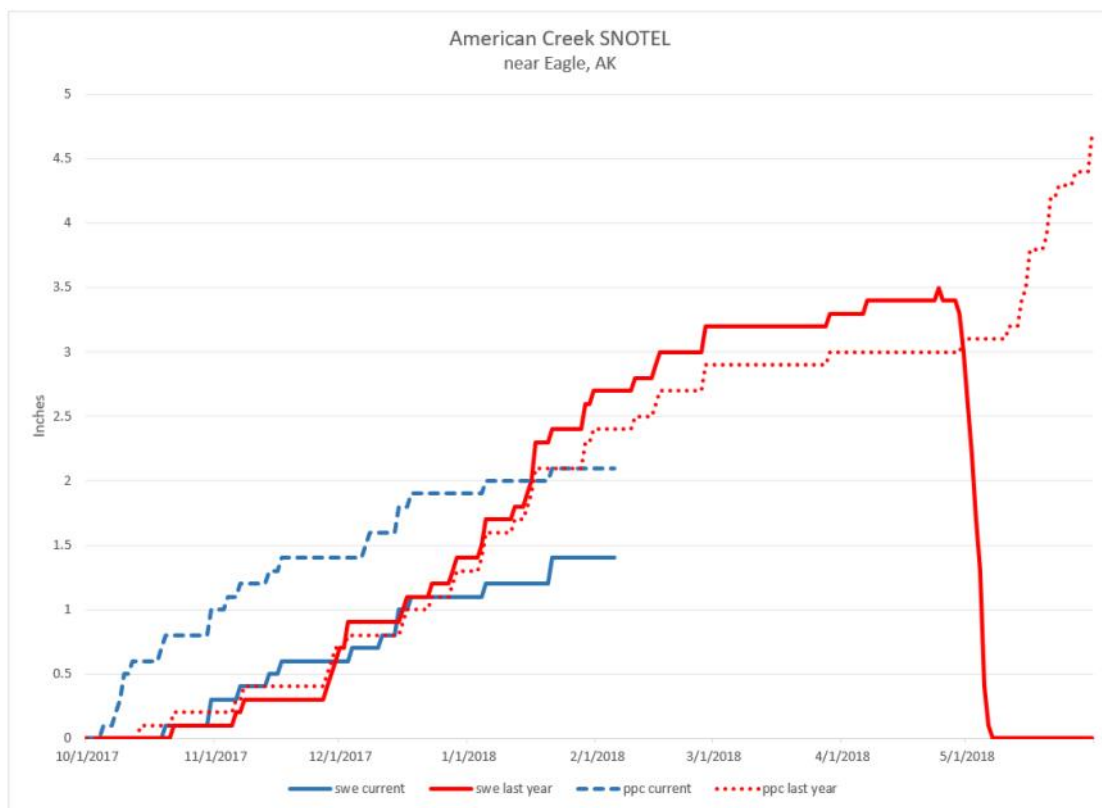


Alaska Statewide Snowpack Map

Based on February 1st, 2018 Snow Water Equivalent

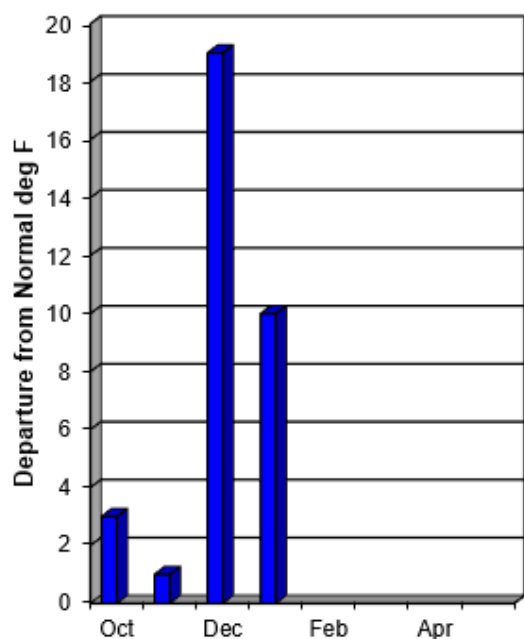


Central Yukon Basin



Fort Yukon Temperature

Monthly



Snowpack

The snowpack in the Central Yukon Basin is somewhat variable. The lower part of the basin has more snow than last year and is near normal in the lowlands and much above normal in the White Mountains. The upper part of the basin has considerably less snow than last year, and is below to near normal. Precipitation has been near to much above normal.

Central Yukon Basin

Snowpack Data

Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
American Creek	1050	6	5	---	0.6	0.7	---
Atigun Pass	4800	29	29	---	---	---	---
Copper Creek	2000	7	---	---	0.8	---	---
Eagle Summit	3650	13	8	---	---	---	---
Fort Yukon	430	10	2	---	---	---	---
Graphite Lake	600	7	---	---	---	---	---
Hess Creek	1000	9	5	---	1.8	0.8	---
Jack Wade Jct	3585	13	10	---	2.1	1.0	---
Seven Mile	600	10	5	---	1.9	1.0	---
Thirty Mile	1350	20	7	---	4.1	1.5	---
January 1st							
American Creek	1050	8	10	---	1.1	1.4	---
Atigun Pass	4800	40	32	---	---	---	---
Eagle Summit	3650	15	10	---	---	---	---
Fort Yukon	430	12	8	---	---	---	---
Jack Wade Jct	3585	18	17	---	2.9	1.9	---
Upper Nome Creek	2520	29	20	---	---	---	---
February 1st							
American Creek	1050	11	14	---	1.4	2.7	---
Atigun Pass	4800	49	34	---	---	---	---
Borealis	1330	23	19	19	4.5	3.6	3.1
Cathedral Creek	1800	16	27	---	2.6*	5.2	---
Coal Creek	1000	16	16	---	2.6	2.7	---
Copper Creek	2000	5	15	---	0.8*	2.7	---
Crescent Creek	2600	9	16	---	1.5*	2.8	---
Eagle Summit	3650	14	9	---	---	---	---
Fort Yukon	430	17	11	---	---	---	---
Hess Creek	1000	17	17	21	3.5	3.2	3.6
Jack Wade Jct	3585	19	18	---	3.3	2.6	---
Seven Mile	600	20	15	22	4.4	2.7	3.8
Step Mountain	2850	20	26	---	3.4*	5.1	---
Thirty Mile	1350	33	16	30	7.0	3.3	5.8
Three Fingers	3350	28	41	---	4.9*	9.1	---
Upper Nome Creek	2520	33	22	---	---	---	---

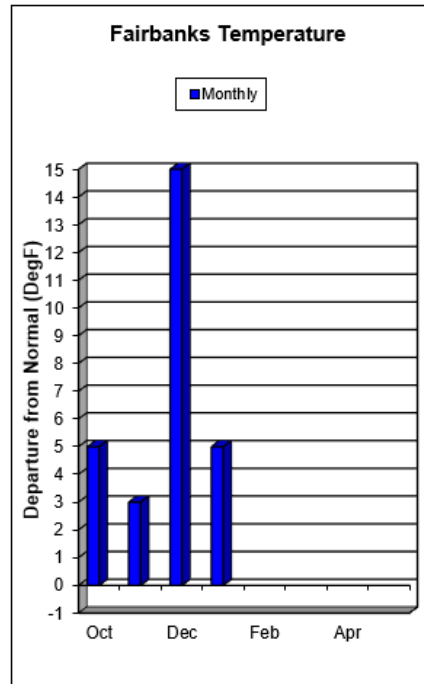
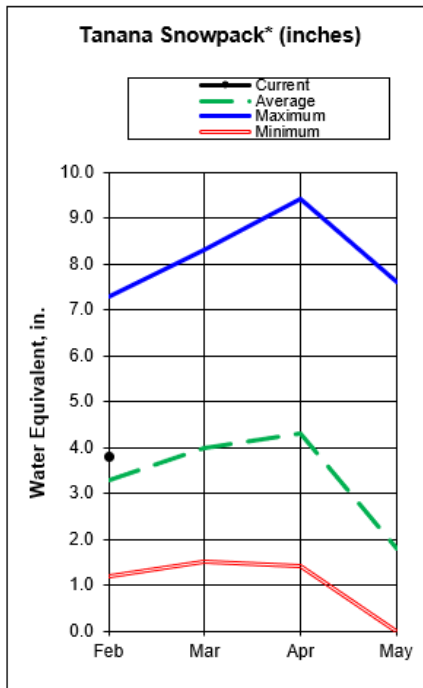
*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
American Creek	1050	2.1	2.4	---	---
Atigun Pass	4800	5.1	2.2	3.9	131%
Eagle Summit	3650	4.6	2.8	3.9	118%
Fort Yukon	430	2.3	1.9	2.6	88%
Jack Wade Jct	3585	3.3	2.3	---	---
Upper Nome Creek	2520	8.1	3.9	3.7	219%

Tanana Basin



Snowpack

The snowpack in the Tanana Valley is above normal. Seasonal snowpack started slightly late, but gained quickly with a series of storms. Like the last three years, the lower valley near Fairbanks has an above normal snowpack which diminishes up valley towards Tok. But unlike the last three years the snowpack near Tok is near or is slightly above normal instead of below normal. The five measured sites in the Chena Basin average 171% of normal, while the sites near Delta Junction and Tok average 106% of normal.

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Chisana	3320	4.1	1.2	---	---
Fairbanks F.O.	450	5.4	4.6	3.3	164%
Granite Crk	1240	3.5	2.2	3.2	109%
Kantishna	1550	8.0	2.8	3.5	229%
Little Chena Ridge	2000	6.6	3.2	4.1	161%
Nenana	415	4.2	2.9	---	---
Tok	1630	2.3	---	---	---
Upper Chena	2850	9.3	4.6	4.8	194%

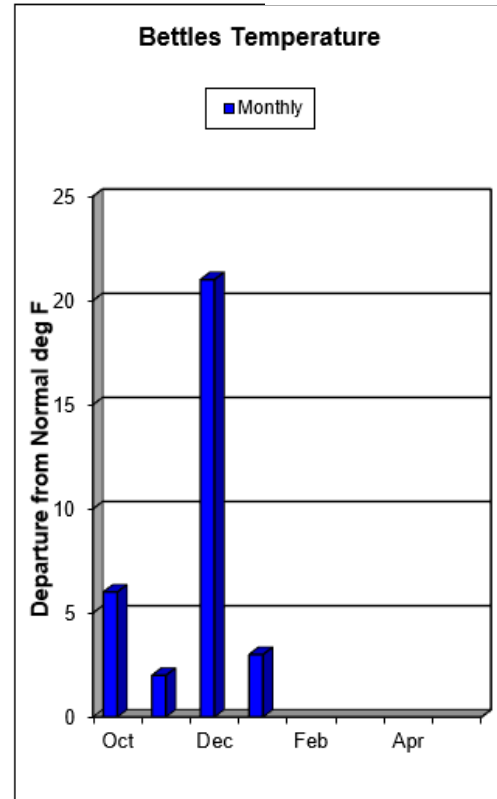
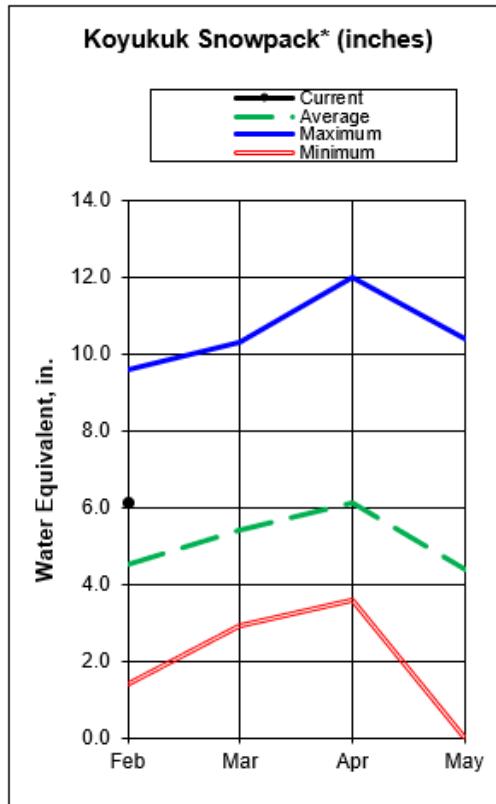
Tanana Basin

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Normal	Current	Last Year	1981-2010 Normal
December 1st							
Chisana	3320	9	1	---	1.4	0.1	1.9
Cleary Summit	2230	27	6	---	5.4	0.6	---
Colorado Creek	700	18	6	---	4.2	0.5	---
Fairbanks F.O.	450	11	3	---	1.6	0.4	1.4
Faith Creek	1750	22	5	8	3.8	0.4	1.5
Fielding Lake SNOTEL	3000	13	5	---	2.5	0.6	---
Fort Greely	1500	11	4	10	1.4	0.6	1.3
French Creek	1800	30	6	16	6.6	0.4	2.6
Gerstle River	1200	13	4	11	1.9	0.4	1.6
Granite Crk	1240	7	3	---	1.4	0.6	1.6
Lost Creek	3030	12	1	---	2.1	0.1	---
Monument Creek	1850	22	4	---	4.2	1	1.8
Mt. Ryan	2800	19	2	---	4.5	0.2	2
Munson Ridge	3100	32	10	---	6.6	1.9	3.5
Shaw Creek Flats	980	12	6	10	1.6	0.6	1.2
January 1st							
Chisana	3320	15	3	---	3.1	0.4	2.2
Fairbanks F.O.	450	12	18	---	2.1	2.8	2
Fielding Lake SNOTEL	3000	27	16	---	5.3	2.2	---
Granite Crk	1240	10	8	---	2.2	1.2	2.2
Monument Creek	1850	24	24	---	4.9	3.9	2.5
Mt. Ryan	2800	24	13	---	5.6	1.7	2.7
Munson Ridge	3100	36	28	---	8.2	5	4.1
Teuchet Creek	1640	16	---	---	3.7	---	2.1
February 1st							
Bonanza Creek	1150	19	21	18	4.4	4.3	3.4
Caribou Creek	1250	19	19	16	4.1	3.8	2.7
Caribou Snow Pillow	900	22	19	17	4.7	3.8	2.9
Chisana	3320	20	5	---	3.9	1	3.4
Fairbanks F.O.	450	21	20	---	3.3	3.7	2.5
Fielding Lake SNOTEL	3000	31	25	---	7.1	4.2	---
Fort Greely	1500	16	14	14	2.4	2.2	2.4
French Creek	1800	32	22	19	7.8	3.8	3.9
Gerstle River	1200	16	13	16	2.4	2	2.4
Granite Crk	1240	13	12	---	2.7	2.3	3
Jatahmund Lake	2180	16	---	14	2.4	---	2.1
Kantishna	1550	25	14	20	5.1*	2.2	3.2
Lost Creek	3030	18	9	---	3.4	1.1	---
Monument Creek	1850	25	21	---	5.4	5.3	3.1
Mt. Ryan	2800	28	17	---	6.3	3	3.6
Munson Ridge	3100	40	30	---	9.1	6.6	5
Paradise Hill	2200	14	10	15	2.2	1.6	2.4
Shaw Creek Flats	980	16	16	13	2.8	2.4	2
Teuchet Creek	1640	19	18	---	4.4	3.6	2.8

*Estimate

Western Interior Basins



Snowpack

Koyukuk

The snow season in the Koyukuk started out well and increased with zeal through December when storms have begun to taper off. The six sites in the upper basin average 156% of normal snowpack.

Kuskokwim

The few sites reporting in the Kuskokwim are similar to last year, though the snowpack started earlier this season.

Lower Yukon

The Lower Yukon has more snow this year than last year at this time. The snowpack is considered slightly above normal.

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	7.0	2.1	4.6	152%
Coldfoot	1040	5.9	2.7	4.3	137%
Gobblers Knob	2030	6.7	3.1	5.1	131%
Hozatka Lake	206	5.7	2.5	---	---
Kuskokwim					
Aniak	80	9.2	4.8	---	---
Telaquana Lake	1275	6.7	2.7	---	---

Western Interior Basins

Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
Koyukuk							
December 1st							
Bettles Field	640	16	1	---	3.7	0.2	1.9
Bonanza Forks	1200	16	4	---	3.8	0.6	---
Cloverleaf	170	16	5	---	---	---	---
Coldfoot	1040	15	5	---	3.3	0.5	2.1
Colville Bend	170	19	5	---	---	---	---
Disaster Creek	1550	14	5	---	2.3	1.0	---
East Chalatna	430	16	---	---	---	---	---
Gobblers Knob	2030	9	1	---	---	---	---
Huggins Creek	290	15	6	---	---	---	---
Jr Slough	160	21	5	---	---	---	---
Kaldoyeit	750	19	---	---	---	---	---
Kanuti Chalatna	670	20	---	---	---	---	---
Kanuti Kilolitna	550	32	---	---	---	---	---
Minnkokut	580	18	---	---	---	---	---
Nolitna	560	13	---	---	---	---	---
January 1st							
Bettles Field	640	25	14	---	6.6	2.0	3.0
Cloverleaf	170	27	---	---	---	---	---
Coldfoot	1040	30	17	---	6.3	2.0	2.8
Colville Bend	170	24	---	---	---	---	---
Gobblers Knob	2030	17	10	---	---	---	---
Jr Slough	160	16	---	---	---	---	---
February 1st							
Bettles Field	640	31	16	---	7.6	3.0	4.3
Bonanza Forks	1200	25	18	21	5.6	3.2	3.8
Cloverleaf	170	27	15	---	5.7*	2.3	---
Coldfoot	1040	30	23	---	6.9	3.4	4.2
Colville Bend	170	24	17	---	4.8*	2.8	---
Disaster Creek	1550	21	17	17	4.7	2.5	2.5
East Chalatna	430	30	---	---	6.6*	---	---
Gobblers Knob	2030	9	2	---	---	---	---
Huggins Creek	290	24	21	---	5.1*	3.4	---
Jr Slough	160	28	15	---	5.7*	2.2	---
Kaldoyeit	750	36	22	---	7.9*	3.9	---
Kanuti Chalatna	670	35	25	---	7.7*	4.5	---
Kanuti Kilolitna	550	25	13	---	5.7*	2.2	---
Minnkokut	580	41	26	---	8.8*	4.7	---
Nolitna	560	37	25	---	8.2*	4.3	---
Table Mountain	2200	22	20	18	5.0	3.8	3.0
Treat Island	190	28	21	---	6.1*	3.5	---
<i>*Estimate</i>							

Western Interior Basins

Snowpack Data—continued

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
Lower Yukon							
December 1st							
Bullfrog	100	20	5	---	---	---	---
Deer Creek	195	17	---	---	---	---	---
Hozatka Lake	206	6	2	---	---	---	---
Little Mud River	855	9	6	---	---	---	---
Lower Nowitna River	205	9	6	---	---	---	---
Ninemile Island	140	18	5	---	---	---	---
Pike Trap Lake	130	11	5	---	---	---	---
Squirrel Creek	150	21	6	---	---	---	---
Upper Innoko	180	19	3	---	---	---	---
Wapoo Hills	220	31	6	---	---	---	---
Yankee Slough	100	20	---	---	---	---	---
January 1st							
Bullfrog	100	39	---	---	---	---	---
Deer Creek	195	24	---	---	---	---	---
Galena Ecological Site	128	17	---	---	2.8	---	---
Hozatka Lake	206	12	11	---	---	---	---
Little Mud River	855	12	---	---	---	---	---
Lower Nowitna River	205	15	---	---	---	---	---
Ninemile Island	140	35	---	---	---	---	---
Pike Trap Lake	130	16	---	---	---	---	---
Squirrel Creek	150	36	---	---	---	---	---
Upper Innoko	180	27	---	---	---	---	---
Wapoo Hills	220	36	---	---	---	---	---
February 1st							
Bullfrog	100	39	28	---	8.6*	4.8	---
Deer Creek	195	23	17	---	4.7*	2.6	---
Galena Ecological Site	128	16	12	---	2.8*	2	---
Hozatka Lake	206	15	11	---	---	---	---
Little Mud River	855	13	17	---	2.6*	2.6	---
Lower Nowitna River	205	17	19	---	3.6*	3.1	---
Middle Innoko	150	20	16	---	4.0*	2.6	---
Ninemile Island	140	29	31	---	6.4*	5.1	---
Pike Trap Lake	130	16	11	---	3.1*	1.9	---
Squirrel Creek	150	31	18	---	6.7*	2.9	---
Upper Innoko	180	13	---	---	2.6*	---	---
Wapoo Hills	220	35	---	---	7.8*	---	---
Yankee Slough	100	31	---	---	6.8*	---	---

*Estimate

Western Interior Basins

Snowpack Data—continued

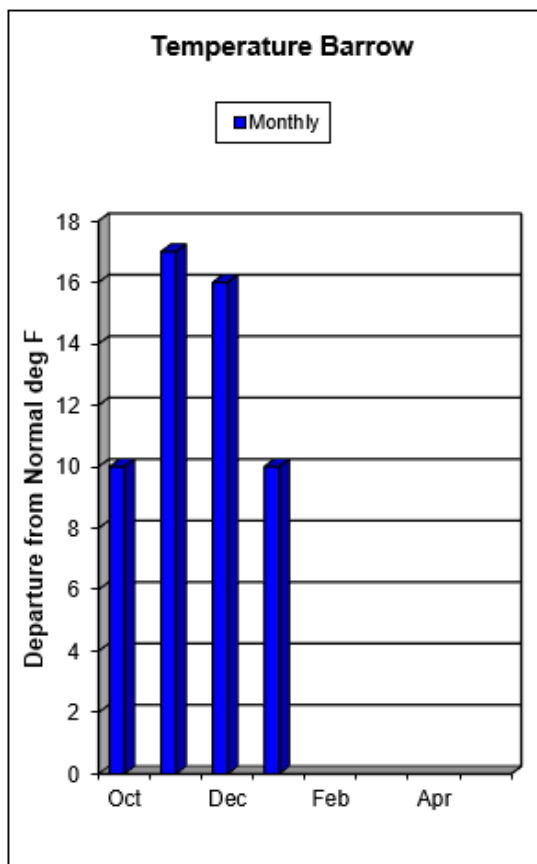
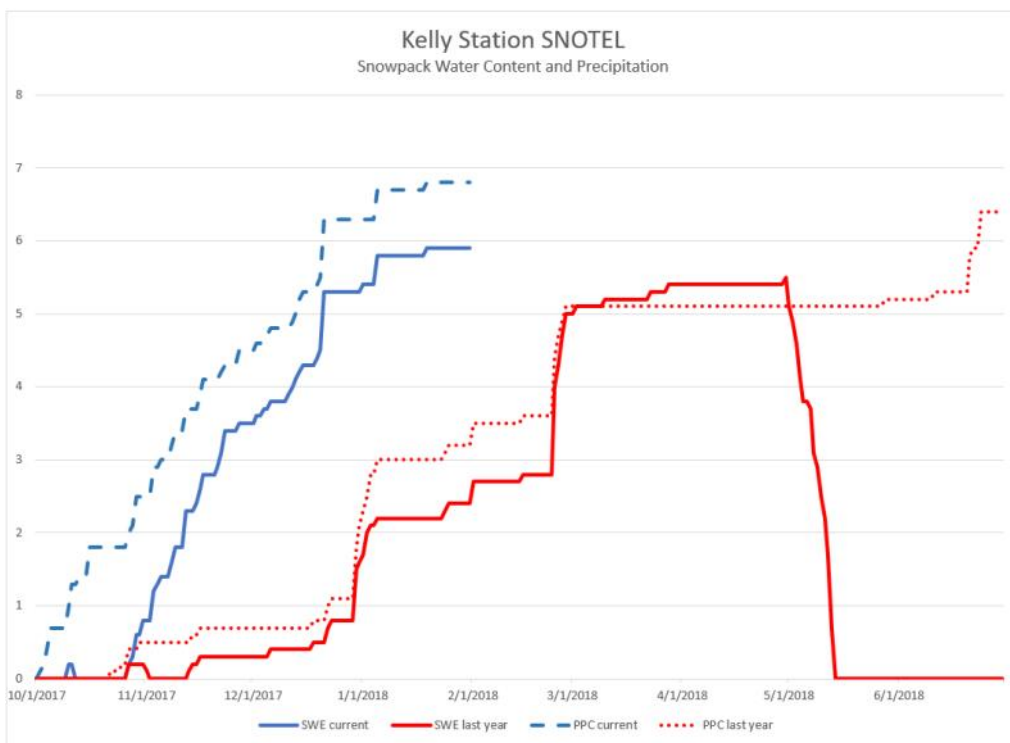
		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
Kuskokwim							
December 1st							
Aniak	80	10	2	---	2.1*	0.5	---
Telaquana Lake SNOTEL	1275	8	2	---	2.2	0.5	---
January 1st							
Aniak	80	11	10	---	---	---	---
Telaquana Lake SNOTEL	1275	8	7	---	2.7	1.5	---
February 1st							
Aniak	80	12	13	---	3.3*	3.1	---
Mcgrath	340	14	---	23	2.7	---	4.1
Telaquana Lake SNOTEL	1275	7	11	---	2.9	2.3	---

*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	7.0	2.1	4.6	152%
Coldfoot	1040	5.9	2.7	4.3	137%
Gobblers Knob	2030	6.7	3.1	5.1	131%
Hozatka Lake	206	5.7	2.5	---	---
Kuskokwim					
Aniak	80	9.2	4.8	---	---
Telaquana Lake	1275	6.7	2.7	---	---

Arctic and Kotzebue Sound



Snowpack

Arctic

The Arctic has above normal precipitation this winter. The snowpack along the Dalton Highway started well and is above normal at the measurement sites.

Kotzebue

Northwest Alaska has had above normal precipitation this winter. The snowpack at Kelly Station SNOTEL site, on the Noatak River, started quickly and is deeper now than it was ever last year.

Arctic and Kotzebue Sound

Snowpack Data

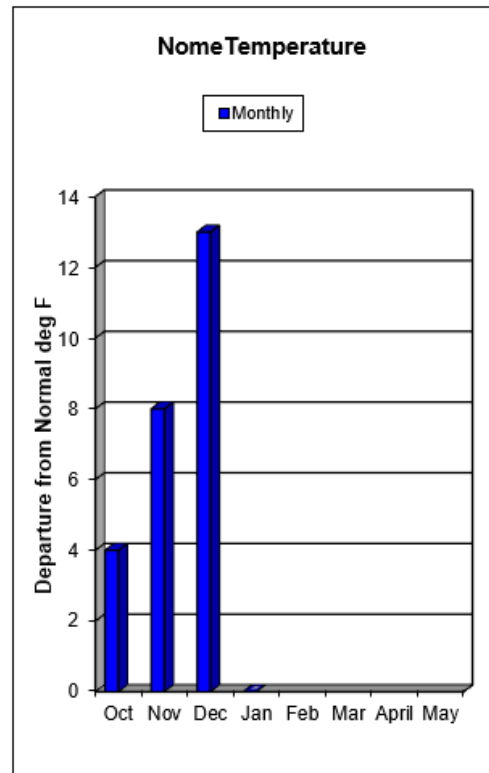
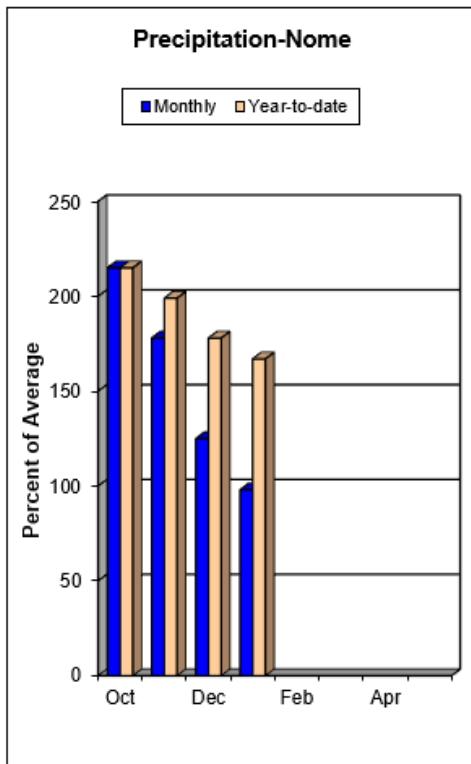
		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Atigun Pass	4800	29	29	---	---	---	---
Imnaviat Creek	3050	23	13	---	---	---	---
Kelly Station	310	14	3	---	3.5	0.3	---
Prudhoe Bay	30	7	3	---	---	---	---
Sagwon	1000	14	6	---	---	---	---
January 1st							
Atigun Pass	4800	40	32	---	---	---	---
Imnaviat Creek	3050	22	14	---	---	---	---
Kelly Station	310	22	13	---	5.4	1.7	---
Prudhoe Bay	30	11	6	---	---	---	---
Sagwon	1000	13	9	---	---	---	---
February 1st							
Atigun Pass	4800	49	34	---	---	---	---
Imnaviat Creek	3050	29	8	---	---	---	---
Kelly Station	310	23	17	---	5.9	2.7	---
Prudhoe Bay	30	14	12	---	---	---	---
Sagwon	1000	14	8	---	---	---	---

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

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	5.1	2.2	3.9	131%
Imnaviat Creek	3050	3.0	1.9	2.1	143%
Prudhoe Bay	30	2.1	1.9	2.0	105%
Sagwon	1000	2.7	1.7	2.1	129%
Kotzebue Sound					
Port Red Dog	50	8.0	3.8	2.7	295%
Red Dog Mine	950	4.6	3.4	3.3	138%
Kelly Station	310	6.8	3.5	---	---

Norton Sound/Y-K Delta/Bristol Bay



Snowpack

Norton Sound

The Norton Sound area has received above normal precipitation this winter. The area has above normal snowpack which started quickly in mid-October and developed until mid-December. Since then, limited storms have not deposited much snow.

Yukon-Kuskokwim Delta

The Bethel NWS site reported 1" of snow. Precipitation in the region has been above normal for the winter.

Bristol Bay

The Port Alsworth Snow Course had no snow, though the area was report as having patchy snow up to 5" deep.

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

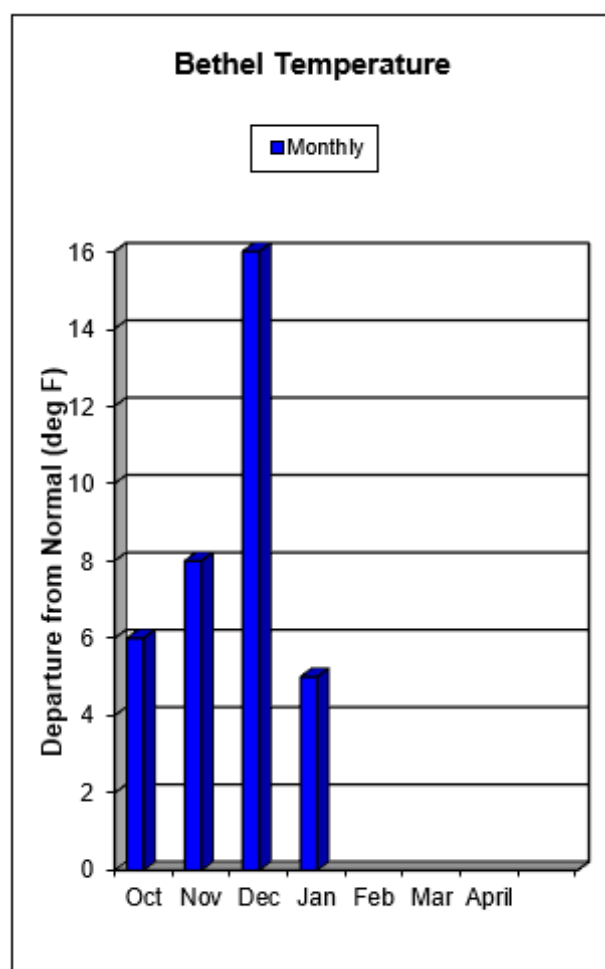
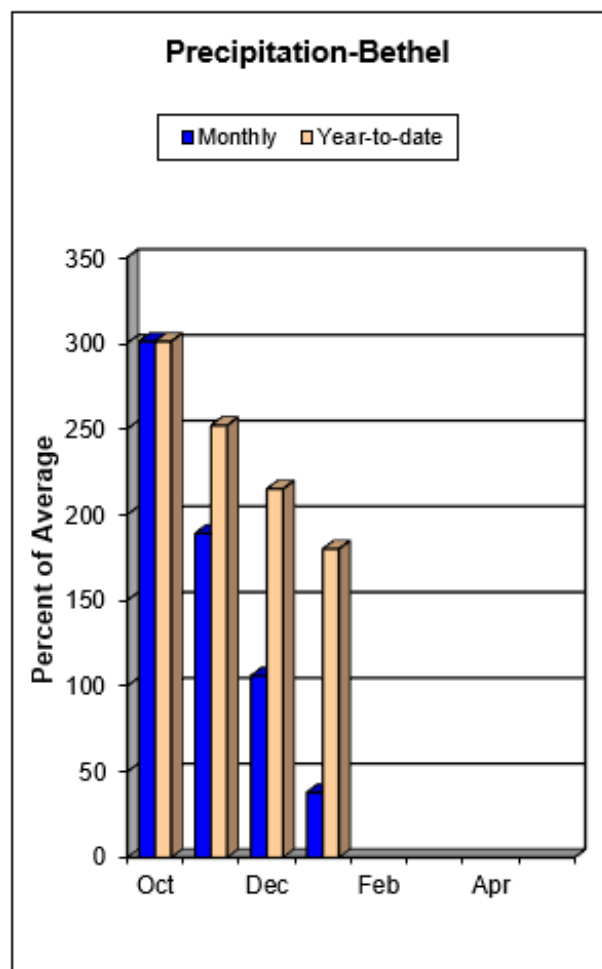
Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Norton Sound					
Pargon Creek	100	6.6	3.5	3.9	169%
Rocky Point	250	5.9	2.5	4.1	144%

Norton Sound/Bristol Bay

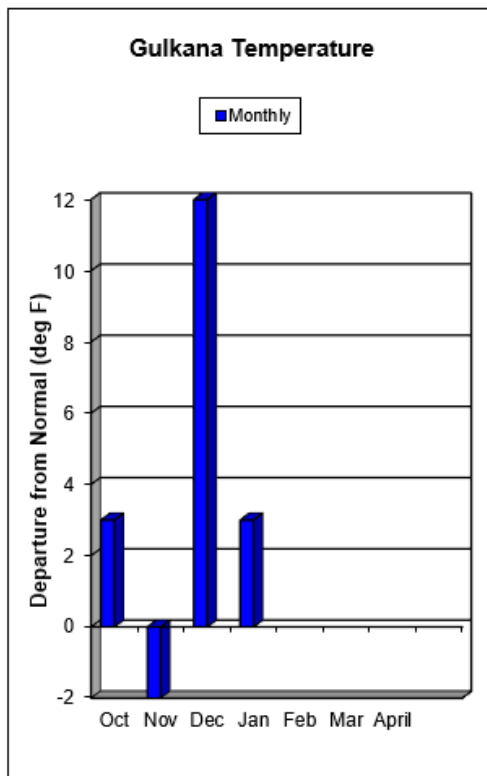
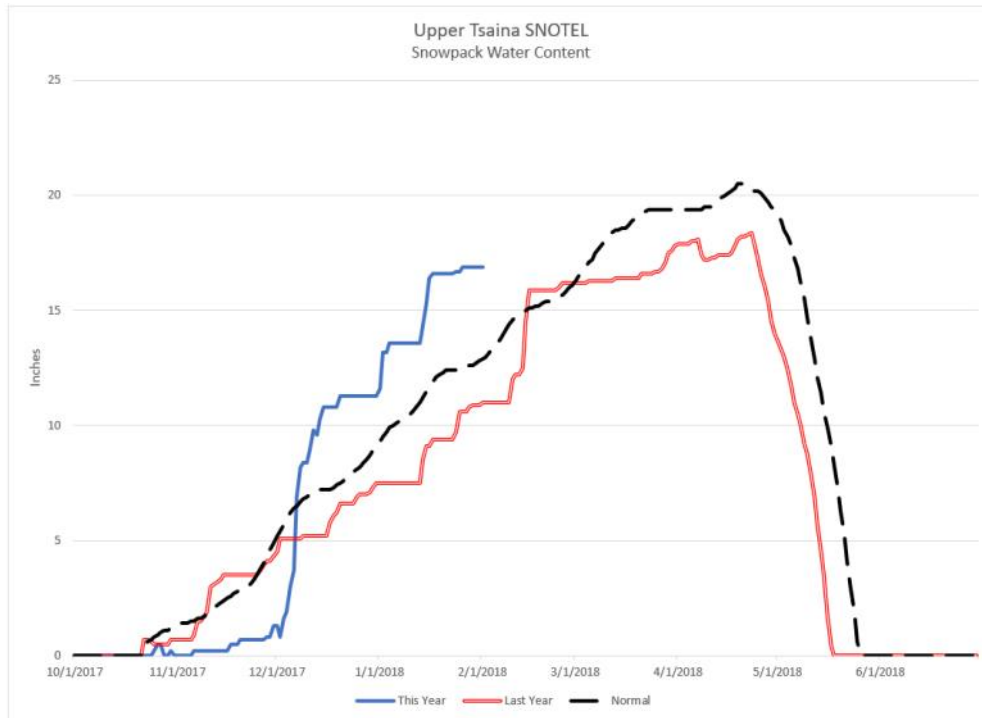
Snowpack Data

Snowpack Data							
Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
Bristol Bay							
February 1st							
Port Alsworth	270	0	---	17	0.0	---	3.1
Norton Sound							
December 1st							
Johnsons Camp	25	3	2	---	---	---	---
Pargon Creek	100	9	2	---	---	---	---
Rocky Point	250	29	1	---	---	---	---
January 1st							
Johnsons Camp	25	16	3	---	---	---	---
Pargon Creek	100	11	3	---	---	---	---
Rocky Point	250	33	5	---	---	---	---
February 1st							
Johnsons Camp	25	16	21	---	---	---	---
Pargon Creek	100	11	9	---	3.0*	1.6*	---
Rocky Point	250	33	16	---	5.0*	2.5*	---

*Estimate



Copper Basin



Snowpack

The Snowpack in the Copper River Basin is above normal. Several sites in the valley floor recorded their highest snowpack since the winter of 2000. The snowpack season started slow and by December 1st the basin snowpack was only 57% of normal. A large December storm turned things around and the basin's snowpack, with the help of a couple of January storms, was 140% of normal. Nicks Valley SNOLITE site, above Thompson Pass, had deeper snow on December 7th (115") than by any time last year (peaked at 98" deep on April 2nd).

Copper Basin

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Chokosna	1550	6	5	---	0.8	0.5	---
Fielding Lake SNOTEL	3000	13	5	---	2.5	0.6	---
Kenny Lake School	1300	7	10	10	0.8	1	1.3
Lake Louise	2400	11	8	12	1.3	0.6	1.6
Little Nelchina	2650	13	7	12	2	0.8	1.5
Lost Creek	3030	12	1	---	2.1	0.1	---
Nicks Valley	4280	42	44	---	---	---	---
May Creek	1610	6	7	---	1.4	1	2
Tazlina	1250	7	8	9	0.7	1	1.1
Tolsona Creek	2000	8	7	11	1.2	1	1.8
Upper Tsaina River	1750	10	25	---	1.3	4.5	5.2
January 1st							
Fielding Lake SNOTEL	3000	27	16	---	5.3	2.2	---
May Creek	1610	8	12	---	1.7	1.8	3
Nicks Valley	4280	97	45	---		---	---
Upper Tsaina River	1750	44	39	---	11.6	7.5	9.3
February 1st							
Chokosna	1550	8	14	---	1.3	1.9	---
Copper Center	1264	26	19	---	4.9	2.9	---
Dadina Lake	2160	34		25	6.6*	---	4.4
Fielding Lake SNOTEL	3000	31	25	---	7.1	4.2	---
Kenny Lake School	1300	22	15	14	4.2	2.7	2.6
Lake Louise	2400	25	15	19	4.7	1.9	3
Little Nelchina	2650	29	14	22	6.2	1.9	3.9
Long Glacier	4820	39	19	---	8.2*	3.3	---
Lost Creek	3030	18	9	---	3.4	1.1	---
Monsoon Lake	3100	27	---	25	5.3*	---	4.6
Ncks Valley	4280	107	74	---	---	---	---
Sanford River	2280	30	---	22	6.2*	---	3.8
St. Anne Lake	1990	25	---	19	5.0*	---	3.7
Tazlina	1250	24	17	15	4.9	3	2.8
Tebay Lake	1930	72	44	---	19.1*	9.7	---
Tolsona Creek	2000	26	16	18	5.1	2.6	3.2
Tsaina River	1650	53	42	48	16.4*	9.3	11.2
Twin Lakes	2400	27	---	24	5.6*	---	4.4
Upper Tsaina River	1750	64	51	---	16.9	11	12.9
Worthington Glacier	2100	62	62	60	19.4*	16	16.8

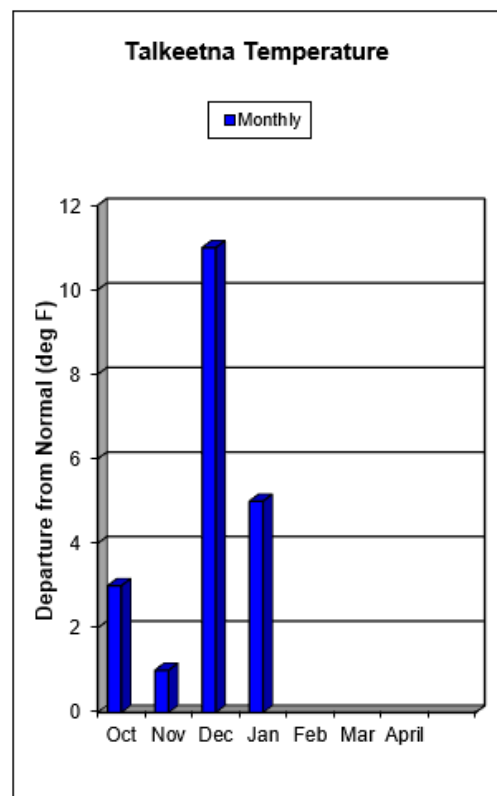
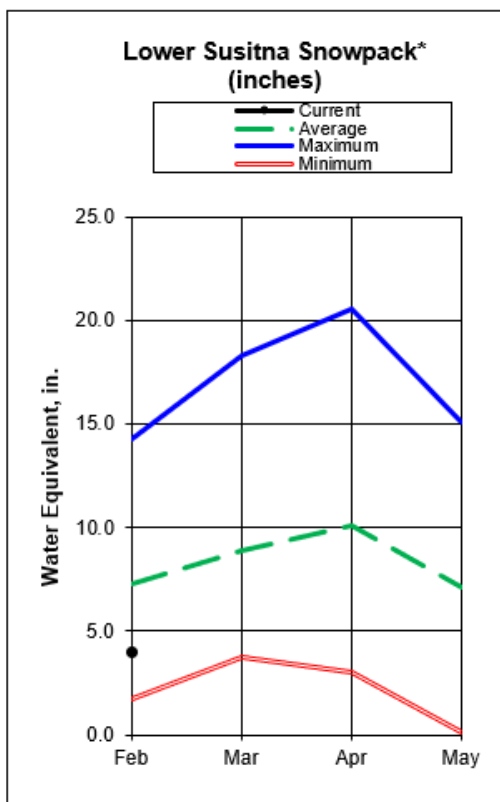
*Estimate

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
May Creek	1610	---	2.6	4.7	---
Upper Tsaina River	1750	22.3	11.7	19.9	112%

Matanuska—Susitna Basin



Snowpack

The snowpack in the Susitna Basin is overall below normal, ranging from near half of normal in lower lying areas to near normal in the mountains and above normal on the eastern side of the Talkeetna Mountains. In the lower valleys, seasonal snowpack started a month late due to warm temperatures and has only made modest gains since then. October rains in the valley brought snow to the mountains and by the end of October many mountain sites had well above normal snowpacks which again reaped the awards of an early December storm. However, below normal precipitation during January has kept the mountain snowpacks from increasing significantly since then. The upper Susitna basin, on the eastern side of the Talkeetna Mountains, has benefitted from the same storms which have caused the Copper Valley to have stout snowpacks. Snowpacks here range from normal to 150% of normal, twice as much as last year.

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Alexander Lake	160	11.2	5.2	---	---
Independence Mine	3550	14.9	8.1	11.0	135%
Monahan Flat	2710	6.6	2.7	5.8	114%
Susitna Valley High	375	10.3	5.0	8.8	117%
Tokositna Valley	850	16.2	8.5	15.2	107%

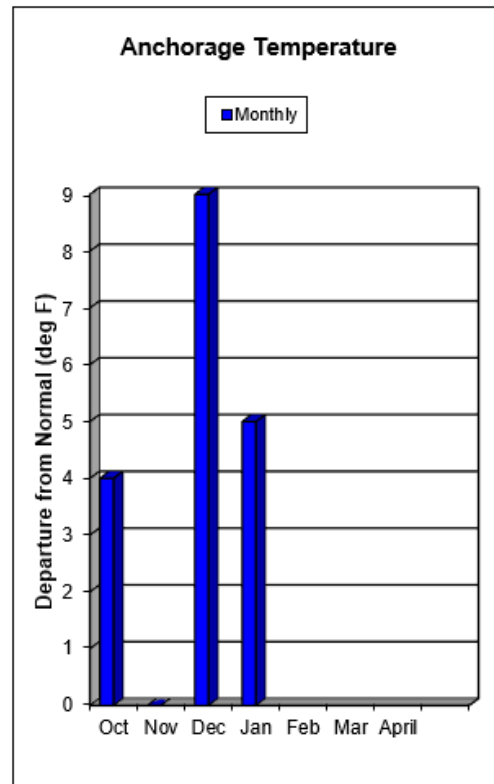
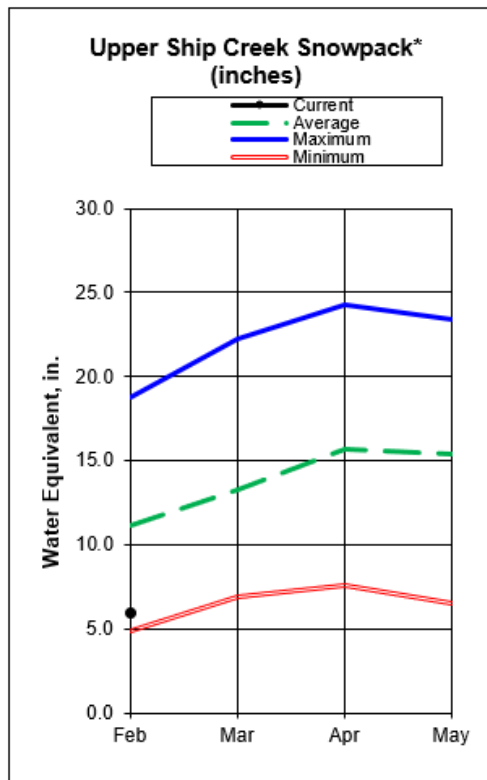
Snowpack Data

Matanuska—Susitna Basin

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Alexander Lake SNOTEL	160	7	2	---	1.2	0.6	---
Archangel Road	2200	11	8	---	1.7	1.2	4.6
Birthday Pass	4020	37	17	---	10.2	3.3	---
Fishhook Basin	3300	24	10	28	5.0	1.6	6.3
Independence Mine	3550	30	11	31	7.6	1.7	6.8
Independence Mine SNOTEL	3550	27	5	---	6.7	1.9	4.2
Lake Louise	2400	11	8	12	1.3	0.6	1.6
Little Susitna	1700	9	7	20	1.3	1.1	3.4
Monahan Flat	2710	14	7	---	---	---	---
Sheep Mountain	2900	11	8	14	1.8	0.7	1.8
Susitna Valley High	375	1	1	---	0.4	0.3	2.9
Tokositna Valley SNOTEL	850	12	3	---	2.9	1.4	4.3
January 1st							
Alexander Lake SNOTEL	160	21	9	---	4.7	1.9	---
Independence Mine SNOTEL	3550	33	23	---	8.4	5.0	5.9
Monahan Flat	2710	19	17	---	---	---	---
Susitna Valley High	375	10	11	---	2.3	1.8	5.0
Tokositna Valley SNOTEL	850	34	18	---	8.1	3.4	6.0
February 1st							
Alexander Lake SNOTEL	160	20	20	---	4.9	3.3	---
Archangel Road	2200	27	35	38	6.3	7.1	10.0
Birthday Pass	4020	59	49	---	19.4	10.2	---
Blueberry Hill	1200	33	44	43	7.9	5.9	10.7
Curtis Lake	2850	24	---	20	4.1	---	3.2
Denali View	700	25	34	35	5.8	5.0	8.8
E. Fork Chulitna	1770	40	41	41	9.8	5.8	9.5
Fishhook Basin	3300	40	38	46	10.6	7.2	12.5
Fog Lakes	2120	26	---	20	5.1*	---	3.4
Horsepasture Pass	4300	25	10	27	4.8*	1.6	4.6
Independence Mine	3550	52	42	52	15.9	8.3	14.5
Independence Mine SNOTEL	3550	31	36	---	7.8	8.1	8.6
Lake Louise	2400	25	15	19	4.7	1.9	3.0
Little Susitna	1700	26	32	34	5.1	5.9	8.0
Monahan Flat	2710	26	---	28	5.1*	---	5.6
Sheep Mountain	2900	34	15	21	6.0	2.2	4.0
Square Lake	2950	26	---	20	4.7*	---	3.1
Susitna Valley High	375	14	24	---	3.1	4.4	6.3
Talkeetna	350	17	22	24	3.1	3.7	4.8
Tokositna Valley SNOTEL	850	33	54	---	8.3	7.6	8.5
Tyone River	2400	27	---	20	5.3*	---	4.0
Upper Oshetna River	3150	29	---	19	5.5*	---	3.1
Willow Airstrip	200	18	25	25	2.8	4.2	4.9

*Estimate

Northern Cook Inlet



Snowpack

The snowpack in northern Cook Inlet is meager. The seven sites measured this month average less than half of normal snowpack. The snowpack season started late and has made only lackluster gains during the first half of winter. High elevation snowpacks are only slightly less than last year, however lower elevation snowpacks are a third of last's year's amount.

Northern Cook Inlet

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Anchorage Hillside	2080	4	1	---	1.0	0.1	3.5
Indian Pass	2350	19	6		4.0	1.2	6.3
Kincaid Park	250	6	7	7	0.7	0.8	1.2
Moraine	2100	3	0	---	0.3	0.0	2.3
Mt. Alyeska	1540	16	---	---	2.6	---	7.5
Portage Valley	50	6	20	14	1.2	3.2	2.8
South Campbell Creek	1200	5	4	12	0.6	0.4	2.2
January 1st							
Anchorage Hillside	2080	7	9	---	2.2	2.2	5.7
Indian Pass	2350	32	20	---	6.0	3.4	12.3
Moraine	2100	2	4	---	0.6	0.5	4.5
Mt. Alyeska	1540	22	25	---	5.7	5.0	14.7
February 1st							
Anchorage Hillside	2080	12	26	---	3.1	5.5	7.1
Indian Pass	2350	39	39	---	8.0	7.1	16.6
Kincaid Park	250	6	19	15	1.2	3.8	3.1
Moraine	2100	6	21	---	2.0	3.9	5.4
Mt. Alyeska	1540	34	41	---	9.0	10.9	20.8
Portage Valley	50	21	39	26	3.3	9.6	8.4
South Campbell Creek	1200	6	21	20	0.9	3.5	4.7

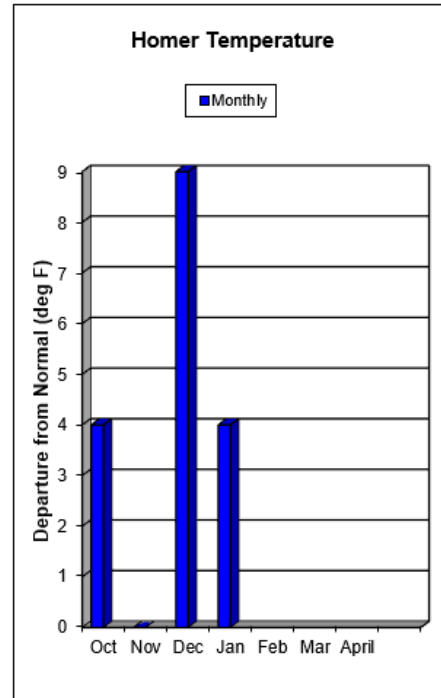
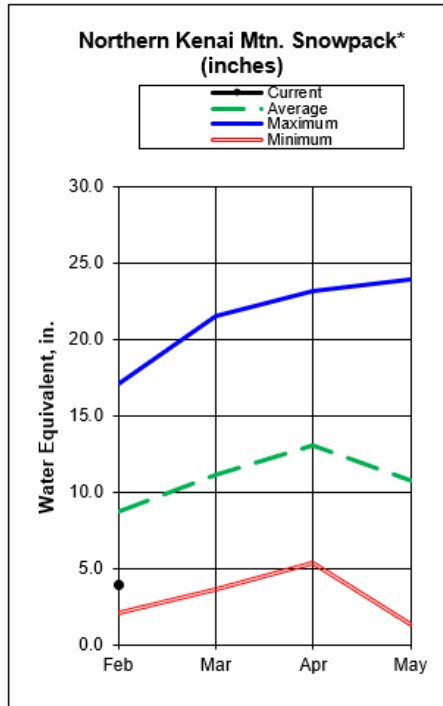
**Estimate*

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Anchorage Hillside	2080	7.7	5.9	10.3	75%
Indian Pass	2350	16.5	14.3	18.3	90%
Moraine	2100	5.4	5.0	8.5	64%
Mt. Alyeska	1540	26.8	---	33.5	80%

Kenai Peninsula



Snowpack

The Kenai Peninsula snowpack is lackluster this winter, ranging between 6% of normal in some low-lying areas to near normal in higher southern Kenai mountains. The 17 measured sites average 54% of normal. Wintertime precipitation over the peninsula has been near normal, but much of it has fallen as rain instead of snow. Compared to last year, there has been more precipitation, but less snowfall.

Kenai Peninsula

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Anchor River Divide	1653	9	10	---	1.7	2.2	2.9
Bertha Creek	950	9	11	---	1.1	2.1	---
Bridge Creek	1300	10	10	12	1.9	1.6	1.5
Cooper Lake	1200	10	9	---	1.8	1.7	3.2
Demonstration Forest	780	9	6	8	1.3	0.7	1.0
Exit Glacier	400	8	11	18	1.3	1.4	3.2
Exit Glacier SNOTEL	400	8	8	---	1.4	1.1	3.5
Grandview	1100	13	18	---	1.4	3.6	5.3
Grouse Creek Divide	700	7	6	---	1.9	1.3	2.9
Indian Pass	2350	19	6	---	4.0	1.2	6.3
Jean Lake	620	6	10	8	0.6	1.3	1.0
Kachemak Creek	1660	10	11	---	0.6	1.6	---
Kenai Moose Pens	300	7	2	---	1.3	0.3	1.2
Kenai Summit	1390	8	9	20	1.0	1.6	4.0
Lower Kachemak Creek	1915	12	10	---	---	---	---
Mcneil Canyon	1320	8	8	---	1.4	1.1	1.9
Middle Fork Bradley	2300	12	18	---	---	---	---
Moose Pass	700	6	11	11	0.9	1.9	1.6
Mt. Alyeska	1540	16	---	---	2.6	---	7.5
Nuka Glacier	1250	11	10	14	1.1	1.6	4.2
Port Graham	300	4	3	---	1.1	0.6	0.5
Portage Valley	50	6	20	14	1.2	3.2	2.8
Snug Harbor Road	500	3	6	8	0.4	0.9	1.0
Summit Creek	1400	7	4	---	1.1	0.8	2.6
Turnagain Pass	1880	18	23	---	2.9	5.0	7.4
January 1st							
Anchor River Divide	1653	29	20	---	7.0	4.7	5.9
Cooper Lake	1200	17	14	---	4.2	3.6	8.2
Exit Glacier SNOTEL	400	16	15	---	3.7	3.1	8.0
Grandview	1100	23	---	---	5.5	7.2	14.2
Grouse Creek Divide	700	22	16	---	4.9	3.9	8.3
Indian Pass	2350	32	20	---	6.0	3.4	12.3
Kenai Moose Pens	300	8	9	---	1.8	1.6	2.5
Lower Kachemak Creek	1915	28	13	---	---	---	---
Mcneil Canyon	1320	17	17	---	3.7	3.0	4.7
Middle Fork Bradley	2300	22	34	---	---	---	---
Mt. Alyeska	1540	22	25	---	5.7	5.0	14.7
Port Graham	300	4	6	---	0.5	1.8	3.5
Summit Creek	1400	13	12	---	3.1	1.8	6.2
Turnagain Pass	1880	41	39	---	10.6	9.3	15.3

Kenai Peninsula

Snowpack Data – continued

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
February 1st							
Anchor River Divide	1653	29	34	---	8.7	6.9	8.8
Bertha Creek	950	24	33	44	5.0	7.8	12.4
Bridge Creek	1300	16	35	30	3.8	6.6	7.4
Cooper Lake	1200	16	46	---	5.4	9.1	11.3
Demonstration Forest	780	4	19	20	1.5	3.6	4.8
Exit Glacier SNOTEL	400	17	43	---	5.2	9.6	11.7
Grandview	1100	40	---	---	10.5	11.9	19.7
Grouse Creek Divide	700	20	44	---	7.7	12.4	12.3
Indian Pass	2350	39	39	---	8.0	7.1	16.6
Jean Lake	620	4	16	14	0.9	1.9	3.0
Kenai Moose Pens	300	13	16	---	2.5	3.2	3.6
Kenai Summit	1390	24	33	37	5.7	5.8	9.6
Lower Kachemak Creek	1915	38	13	---	---	---	---
Mcneil Canyon	1320	15	28	---	4.6	5.6	7.1
Middle Fork Bradley	2300	35	48	---	---	---	---
Moose Pass	700	7	35	20	0.9	6.4	4.9
Mt. Alyeska	1540	34	41	---	9.0	10.9	20.8
Port Graham	300	3	16	---	0.3	4.7	4.8
Portage Valley	50	21	39	26	3.3	9.6	8.4
Snug Harbor Road	500	2	19	15	0.2	3.8	3.6
Summit Creek	1400	17	25	---	4.9	5.0	8.1
Turnagain Pass	1880	63	57	---	17.2	14.1	23.0

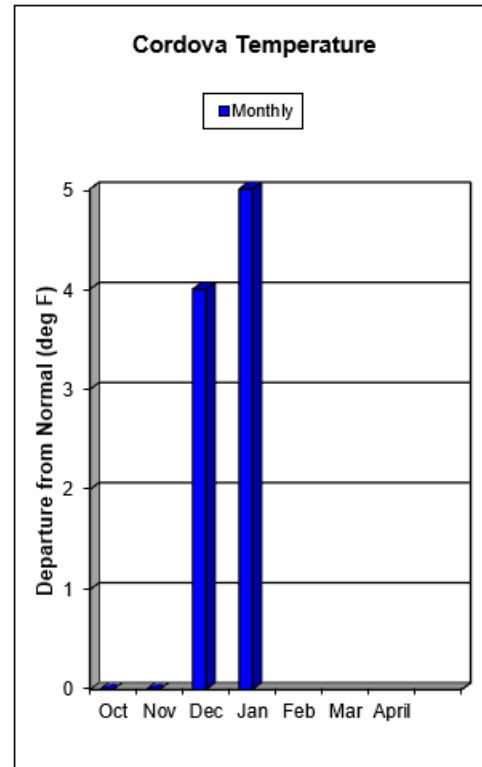
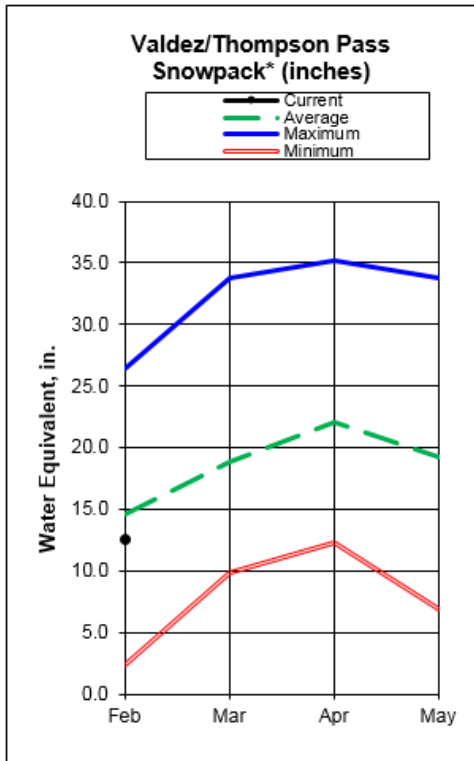
**Estimate*

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Anchor River Divide	1653	13.9	11.8	12.5	111%
Cooper Lake	1200	17.8	14.8	20.0	89%
Grandview	1100	26.2	25.1	30.0	86%
Grouse Creek Divide	700	29.0	25.1	28.2	103%
Kachemak Creek	1660	37.6	29.8	30.6	123%
Kenai Moose Pens	300	6.4	3.9	6.3	102%
Mcneil Canyon	1320	10.6	11.0	13.0	82%
Middle Fork Bradley	2300	24.8	24.5	25.3	98%
Nuka Glacier	1250	41.0	32.1	41.3	99%
Port Graham	300	37.8	22.8	36.9	102%
Summit Creek	1400	12.9	8.2	11.9	108%
Turnagain Pass	1880	24.7	23.4	28.5	87%

Western Gulf – Prince William Sound



Snowpack

The Prince William Sound area has received slightly above normal precipitation this winter. The snowpack in this area varies by elevation. Lower snowpacks, subject to December and January rains are less than normal and less than last year. Higher elevations sites received these rains as snow and have above normal snowpacks. Worthington Glacier snow course has more snow than the last three years at this time and is considered 115% of normal.

Western Gulf — Prince William Sound

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Normal	Current	Last Year	1981-2010 Normal
December 1st							
Exit Glacier	400	8	11	18	1.0	1.4	3.2
Exit Glacier SNOTEL	400	8	8	---	1.4	1.1	3.5
Grouse Creek Divide	700	7	6	---	1.9	1.3	2.9
Mt. Eyak	1405	---	13	---	4.1	2.6	7.4
Nuka Glacier	1250	11	10	14	1.1	1.6	4.2
Upper Tsaina River	1750	10	25	---	1.3	4.5	5.2
January 1st							
Exit Glacier SNOTEL	400	16	15	---	3.7	3.1	8.0
Grouse Creek Divide	700	22	16	---	4.9	3.9	8.3
Mt. Eyak	1405	18	45	---	4.3	10.7	12.8
Upper Tsaina River	1750	44	39	---	11.6	7.5	9.3
February 1st							
Exit Glacier	400	16	42	42	3.6	10.4	11.7
Exit Glacier SNOTEL	400	17	43	---	5.2	9.6	11.7
Grouse Creek Divide	700	20	44	---	7.7	12.4	12.3
Lowe River	600	32	44	44	9.6	9.5	11.1
Mt. Eyak	1405	18	63	---	5.7	18.5	17.9
Tsaina River	1650	53	42	48	16.4	9.3	11.2
Upper Tsaina River	1750	64	51	---	16.9	11.0	12.9
Valdez	50	22	42	42	7.6	9.8	11.4
Worthington Glacier	2100	62	62	60	19.4	16.0	16.8

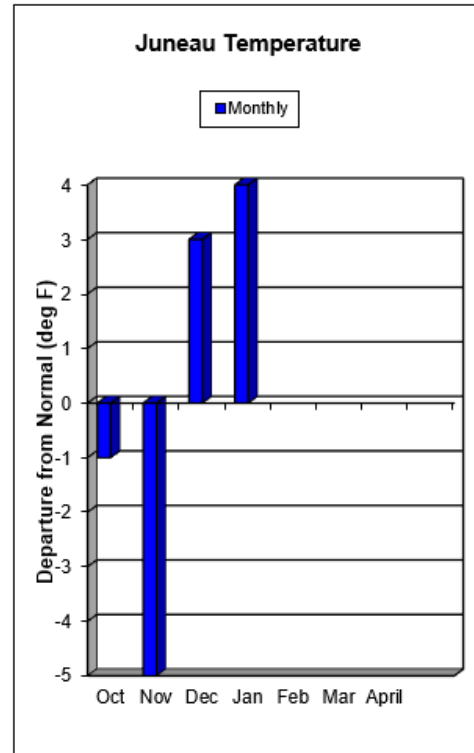
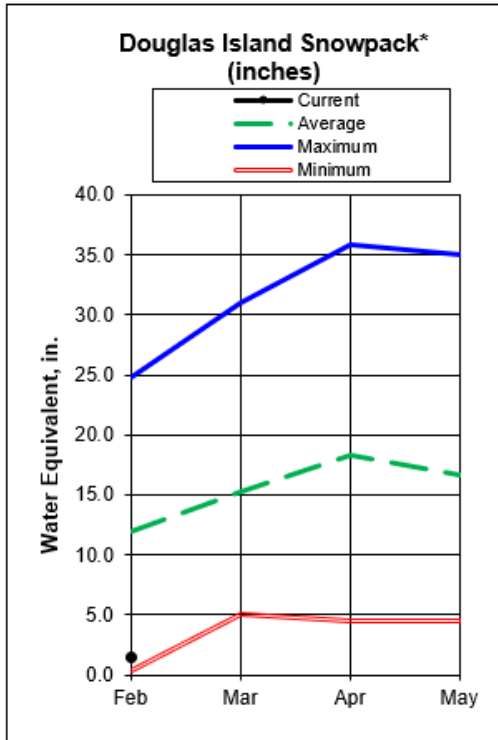
**Estimate*

Precipitation

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Esther Island	50	71.8	41.9	60.7	118%
Grouse Creek Divide	700	29.0	25.1	28.2	103%
Mt. Eyak	1405	59.8	32.8	---	---
Nuchek	50	66.9	39.6	---	---
Nuka Glacier	1250	41.0	32.1	41.3	99%
Port San Juan	50	51.9	43.6	56.7	92%
Seal Island	20	28.6	17.8	---	---
Strawberry Reef	30	33.2	24.8	---	---
Sugarloaf Mtn	550	39.8	18.8	29.3	136%
Tatitlek	50	36.3	20.2	30.6	119%

Southeast



Snowpack

Southeast started the winter with near normal snow conditions but December rains decimated low lying and many mid-elevation snowpacks. For example, Cropley Lake snow course, near Juneau's Eagle Crest ski area, was recorded with 22" of snow with 4.2" of water content on December 1st, about 76% on normal. By February first, Cropley Lake has only 12" of snow with 3.0" of water content, 16% of normal.

Flower Mountain SNOTEL was established this year upriver from Haines at an elevation of 2510'. It is reporting 32" of snow with 9.2" of water content.

Southeast

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1981-2010 Median	Current	Last Year	1981-2010 Median
December 1st							
Cropley Lake	1650	22	12	21	4.2	4.2	5.7
Eagle Crest	1200	17	4	6	3.1	1.3	1.0
Fish Creek	500	7	0	0	1.4	0.0	---
Flower Mountain	2510	24	---	---	3.5	---	---
Heen Latinee	2065	21	8	---	2.8	1.5	---
Institute Creek	1350	19	4	---	4.6	0.7	---
Long Lake	850	31	12	---	7.7	3.1	9.5
Petersburg Reservoir	550	15	0	---	3.6	0.0	---
Petersburg Ridge, S.	1650	30	15	---	6.7	3.1	---
Rainbow Falls	500	5	0	---	1.2	0.0	---
January 1st							
Flower Mountain	2510	25	---	---	6.5	---	---
Heen Latinee	2065	13	43	---	3.1	8.0	---
Long Lake	850	14	55	---	6.6	16.6	15.9
Petersburg Reservoir	550	0	17	9	0.0	4.1	1.3
Petersburg Ridge, S.	1650	16	50	36	4.5	10.3	10.0
February 1st							
Cropley Lake	1650	12	50	56	3.0	15.8	18.4
Eagle Crest	1200	5	35	36	0.7*	12.6	10.6
Fish Creek	500	4	0	14	0.6*	0.0	3.1
Flower Mountain	2510	32	---	---	9.2	---	---
Heen Latinee	2065	20	38	---	4.7	10.0	---
Institute Creek	1350	16	27	---	2.8	9.9	---
Long Lake	850	33	50	---	11.6	19.6	25.2
Moore Creek Bridge	2250	18	47	54	4.1	13.0	13.6
Petersburg Reservoir	550	18	7	16	2.6	2.4	3.7
Petersburg Ridge, S.	1650	25	40	48	6.0	12.8	16.7
Rainbow Falls	500	9	0	---	0.9	0.0	---
West Creek	475	5	20	---	1.5	5.9	---

*Estimate

Precipitation Data

Inches Accumulated since October 1st (as of February 1, 2018)

Site Name	Elev.	This Year	Last Year	1981-2010 Normal	% of Normal
Long Lake	850	58.5	62.6	75.0	78%
Heen Latinee	2065	29.0	25.5	---	---
Moore Creek Bridge	2250	17.0	19.2	20.1	85%

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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