

Alaska Snow Survey Report



USDA **NRCS**
U.S. Department of Agriculture
Natural Resources Conservation Service

February 1, 2023

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Cover Photo: NRCS Engineer Jesse Hunter measures snow at the Lake Louise Snow Course. Lake Louise S.C. was measured with 33 of snow depth and 7.6 inches of water content, which is 238% of it's 30-year Normal.

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General Overview

Updated 1991-2020 Snow Survey and Water Supply Normals

Every 10 years, The NRCS's Snow Survey and Water supply Forecasting Program (SSWSF) produces new 30-year central tendency statistics. These are often called the site Normals. The new 1991-2020 Normals have been developed and are being used in this publication. A detailed discussion can be found on the National Water and Climate Center's website [here](#). The main take away is that "100% of Normal" this winter is not likely to be the same as it was last decade. A side-by-side comparison of the new and old Alaska snowpack Normals for February can be found [here](#).

SnowPack

Alaska is a huge place and summing up the state of the snowpack on February 1, 2023, in a few sentences with a limited network of monitoring stations is challenging. Generally, the snowpack is above normal, with some nuance. Like last year, southern Alaska, a region with the climatologically deepest snowpacks is the least exceptional. And the interior of Alaska, not known for its deep snowpacks, is above, much above, or in some cases record breaking for the date.

The timing for snow season 2023 started near normal, with most sites starting to accumulate snowpack within a week of their normal snow-on date. Whereas timing was near normal, the quantity to start the season was exceptional in the Copper River basin. The 2.2" Snow Water Equivalent (SWE) and 23" of depth recorded at May Creek on 10-12-22 is the largest single day accumulation in the site's 16-year history. This single storm represents 1/3 of the water year to date SWE.

On December 1 data points in the form of manual snow course measurements become available (thank you snow surveyors!) and on December 1, 2022 the snowpack for most of the reporting stations in Alaska was above normal. There are exceptions, including the stations near the Chena basin outside of Fairbanks, the courses on the upper Susitna measured from the Parks highway, and the northern Kenai Mountains.

December snowfall made the headlines in the state's population center of Anchorage, where Anchorage International Airport reported more than 40 inches of snowfall between December 6th and 15th, 2022. During this same timeframe Anchorage Hillside SNOTEL picked up 3.6" of SWE. This snow event was remarkable in the quantity of snowfall reported but also for the seeming lack of orographic effect from this series of storms. Independence Mine SNOTEL picked up more than 4" SWE during this period, which likely correlates to a similar amount of snow in Palmer. This snow would be readily available for transport later in the month when the second Bora wind event in 2 years hammered the city of Palmer. While not as intense in magnitude or duration, this year's event had a lot more snow to move around. The Snow Survey warehouse near the Palmer airport has equipment buried in drifts that will likely be buried until it melts this spring.

December snowfall in the remainder of the state was a mixed bag. The Tanana basin had a big month, which included the snow starved Chena mountains. Really the whole central portion of the state's road system going north of Anchorage had above normal snowfall. Southern Alaska tells a different story with below normal snowfall on the Kenai, the Western Gulf and Southeast Alaska.

January snowfall was robust for most of Alaska north of Anchorage. In eastern Alaska, Jack Wade Junction and American Creek had the largest January SWE increase in their limited histories. The rest of the central Yukon, Tanana, Copper and Susitna also reported above normal snowfall for the month. The Anchorage bowl reported a trend opposite of the previous month, with way below precipitation and a several days

General Overview, Continued

Snowpack Continued

thaw that likely melted some of the previous month's snowfall at lower elevations. In Southern Alaska, precipitation was generally above normal, but came with rain at lower elevations.

As a whole the state has a mostly above normal snowpack in the places where snow is measured, that have a long enough history to make a comparison against normal.

Alaska Statewide Snowpack	# of Sites	Basin Index	
		Current Percent of Median	Last Year Percent of Median
Central Yukon Basin	6	112	184
Tanana Basin	18	152	216
Koyukuk Basin	9	124	175
Kuskokwim Basin	1	124	138
Copper Basin	15	130	112
Matanuska-Susitna Basin	18	108	113
Northern Cook Inlet	7	119	124
Kenai Peninsula	19	98	115
Western Gulf of Alaska	8	97	93
Southeast Alaska	8	92	151

Precipitation

Precipitation in Alaska was mostly near or above normal in October. It was a particularly big month for precipitation in the Copper River Basin, bolstered by the big snow event that occurred on October 12. The exception is southcentral Alaska where the Anchorage bowl and Kenai Peninsula had below normal precipitation. The Kenai Peninsula reported 70% as a region index, the driest region in the state for the month in regards to normal.

November was a mixed bag for precipitation. Western Alaska was wetter than normal. As was northern Alaska. Kelly Station in Northwest Alaska reported 2.9" of precipitation for the month which is the largest monthly total in 16 years of observation. In the Copper River Basin May Creek followed its wettest month of precipitation on record with November precipitation that was one of its lowest. Southcentral November precipitation continued to be below normal with the Western Kenai reporting a particularly dry month.

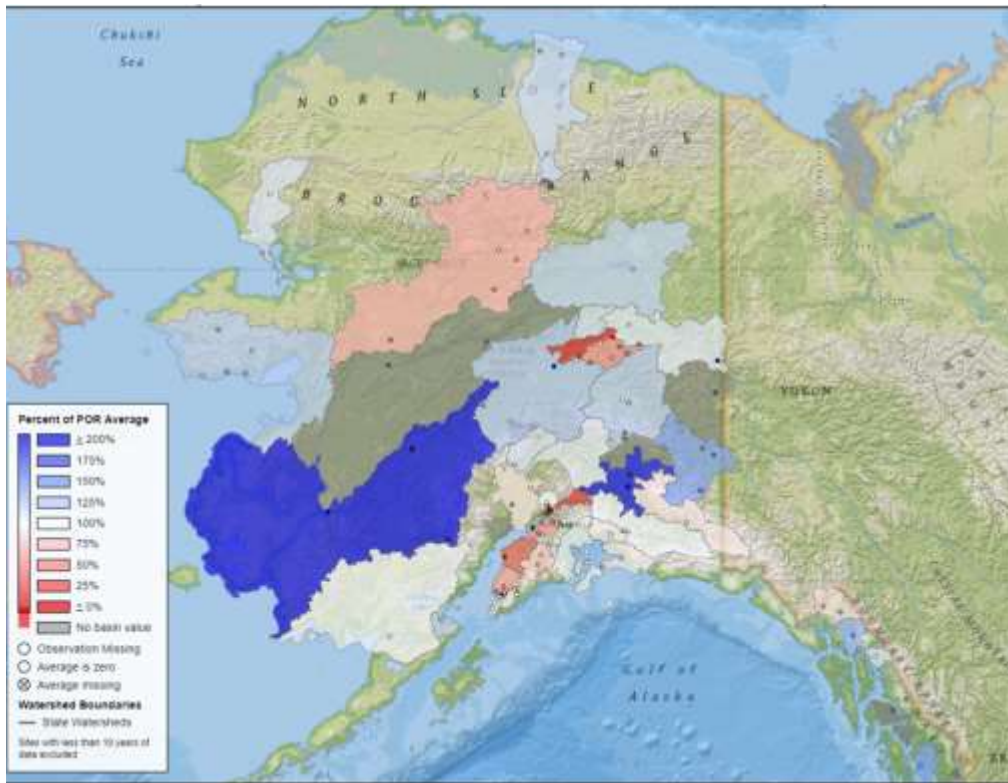
The stand-out precipitation event for the month of December was snowfall in the Anchorage bowl referenced earlier. In Fairbanks the 1.13" of precipitation recorded for the month at the airport is nearly double normal. It's a far cry from the nearly 6" recorded during last year's record-breaking December but substantial, nonetheless. In northern Alaska, Kelly Station continues last month's trend with monthly precipitation that is double normal. The Utqiagvik Airport reported 0.6" of precipitation for the month, which is nearly three times normal, and came with a temperature of 40 degrees that would be a monthly temperature record for not only December, but November, January, February, and March. In southern Alaska the Kenai Peninsula, the Western Gulf and Southeast Alaska all reported below normal precipitation.

January precipitation was mixed across the state. The Anchorage bowl followed an exceptionally wet month with a fairly dry one. The Lower Kuskokwim was the stand-out region for the month, with Bethel and Aniak recording values near double normal. Aniak had the wettest January in 14 years of observation. Eastern Alaska also reported above average precipitation for the month. And southern Alaska followed a dry December with a near normal January.

Alaska Statewide Precipitation Maps

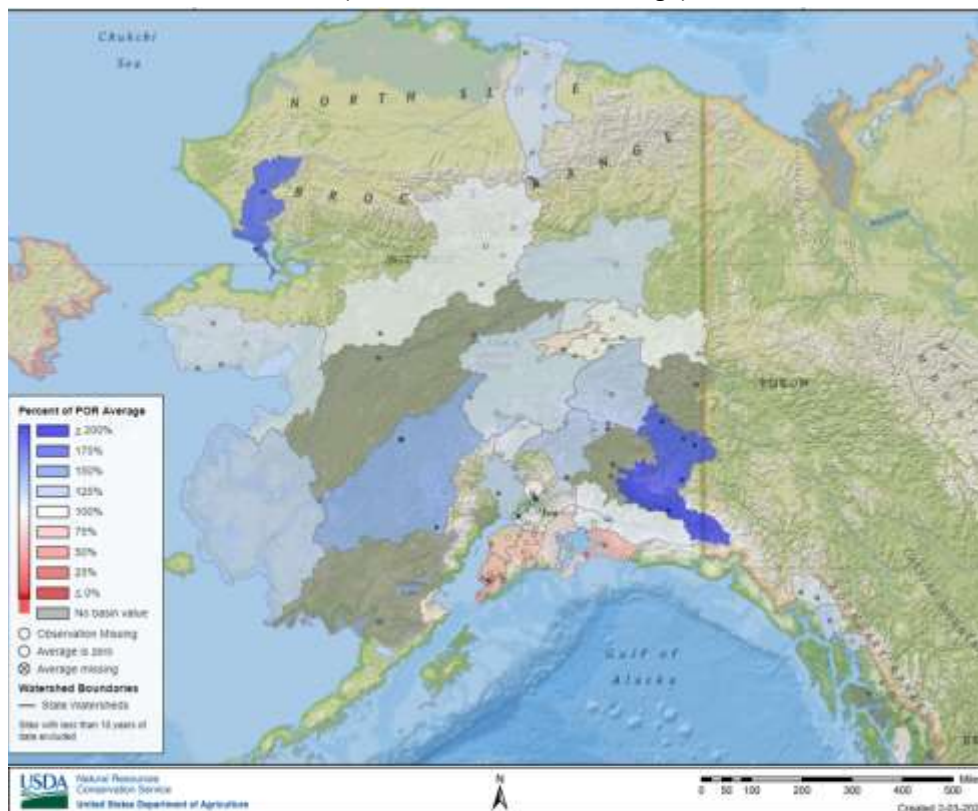
Monthly Precipitation for January, 2023

(% of Period of Record Average)



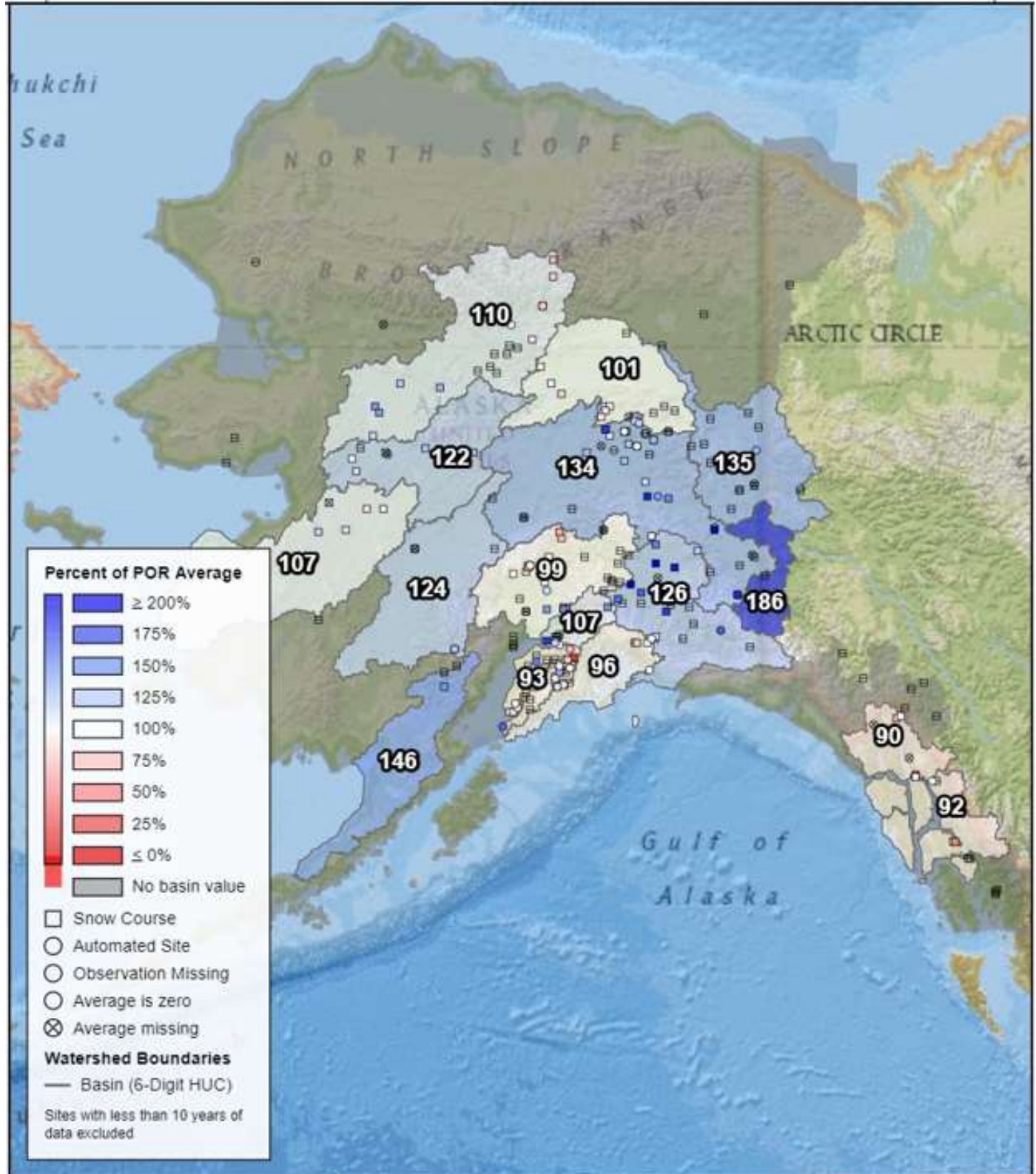
Water Year-to-date Precipitation (Oct. 1, 2022-Jan. 31, 2023)

(% of Period or Record Average)

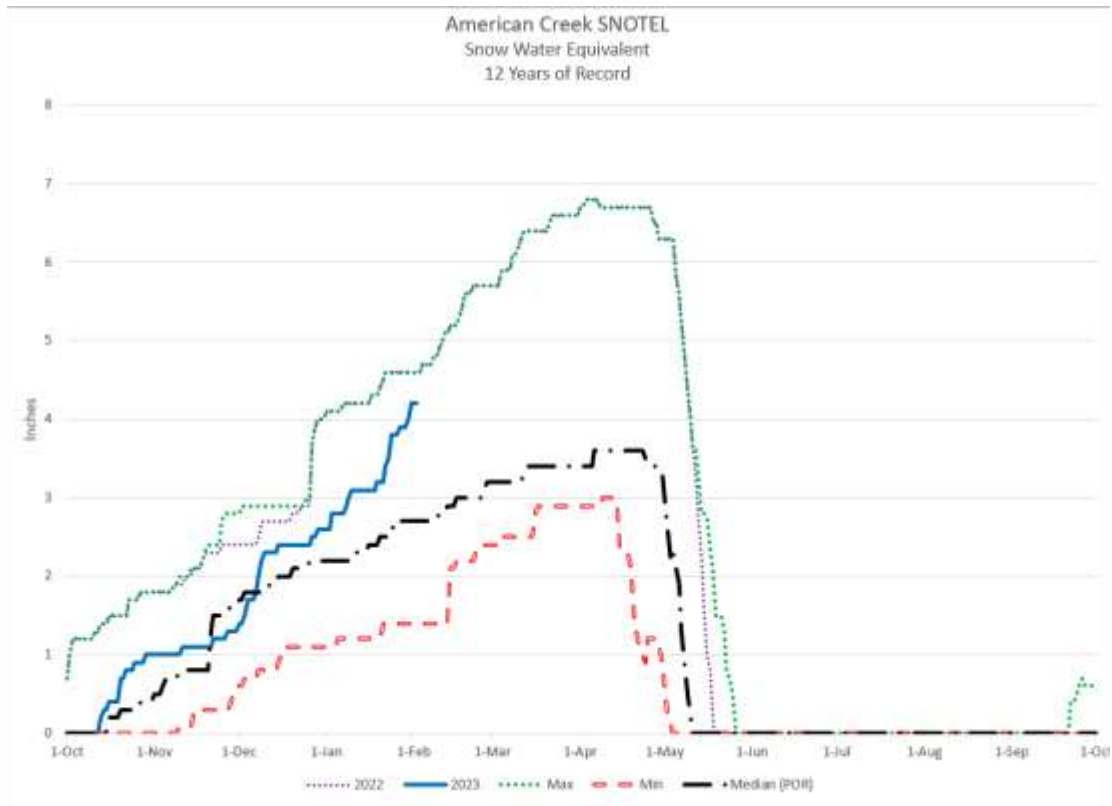


Alaska Statewide Snowpack Map

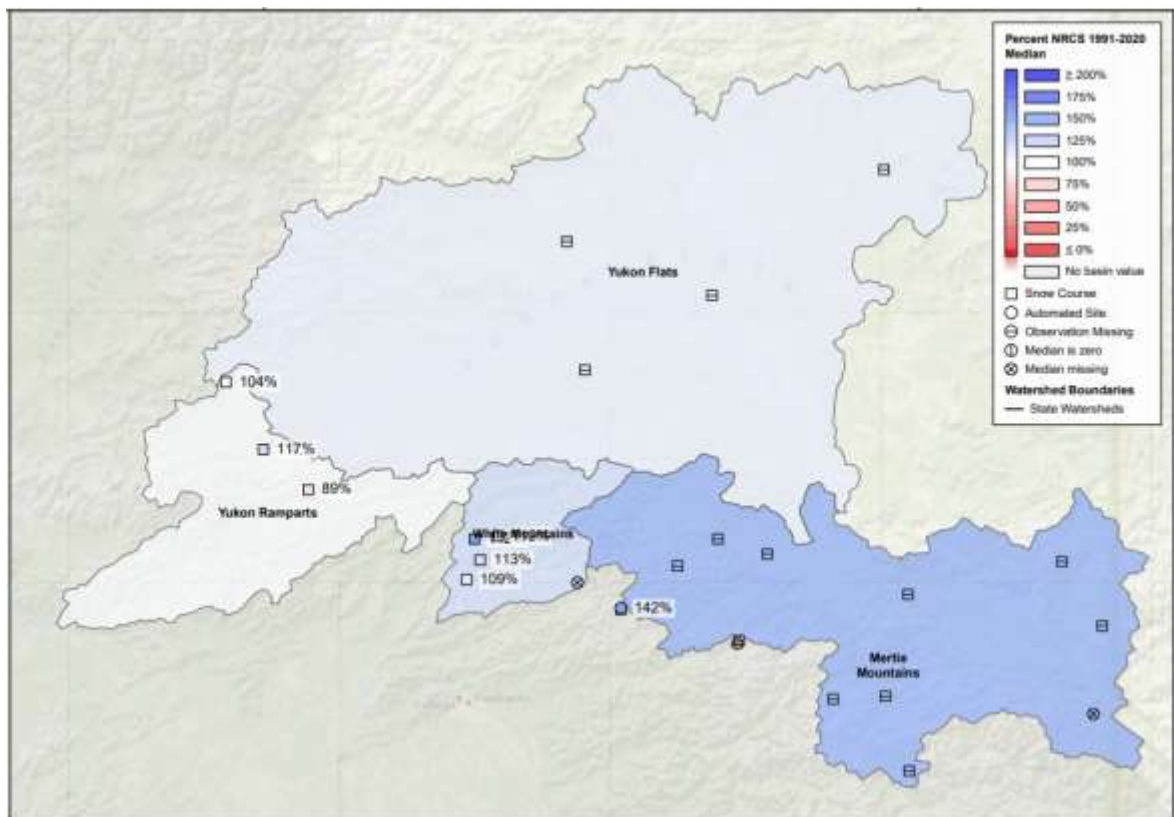
Based on February 1st, 2023 Snow Water Equivalent



Central Yukon Basin



Snowpack Map



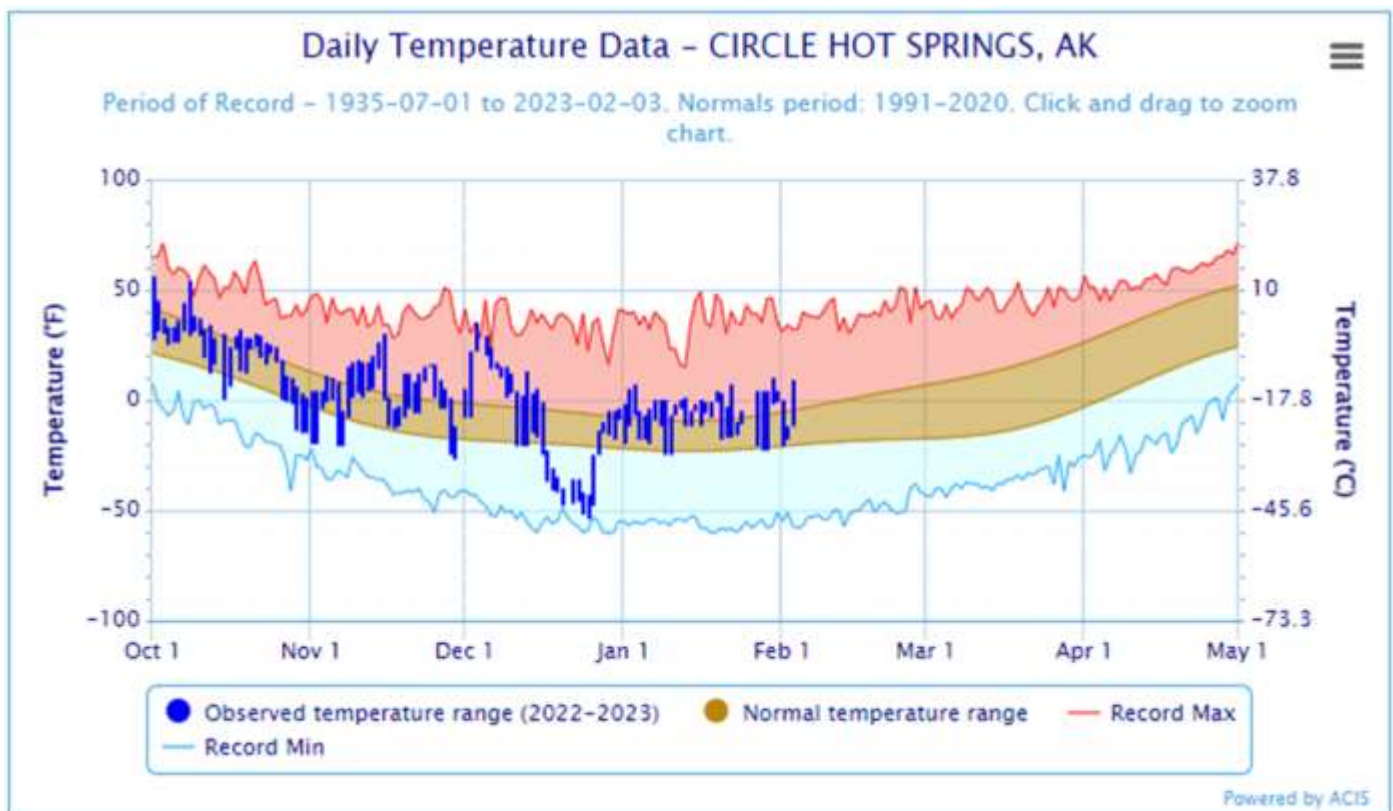
Central Yukon Basin

Snowpack

The snowpack in the Central Yukon basin is above normal. There are no records or stations reporting exceptional snowpack, but most sites used to index the basin are above the 1991-2020 median for February 1. October precipitation was slightly above normal. November was slightly below, and December was near normal. January snowfall was ample. American Creek SNOTEL's 1.6" of SWE accumulated through the month was the 3rd largest monthly SWE increase in the site's history.

Temperature Chart

Source: NOAA ACIS



Central Yukon Basin

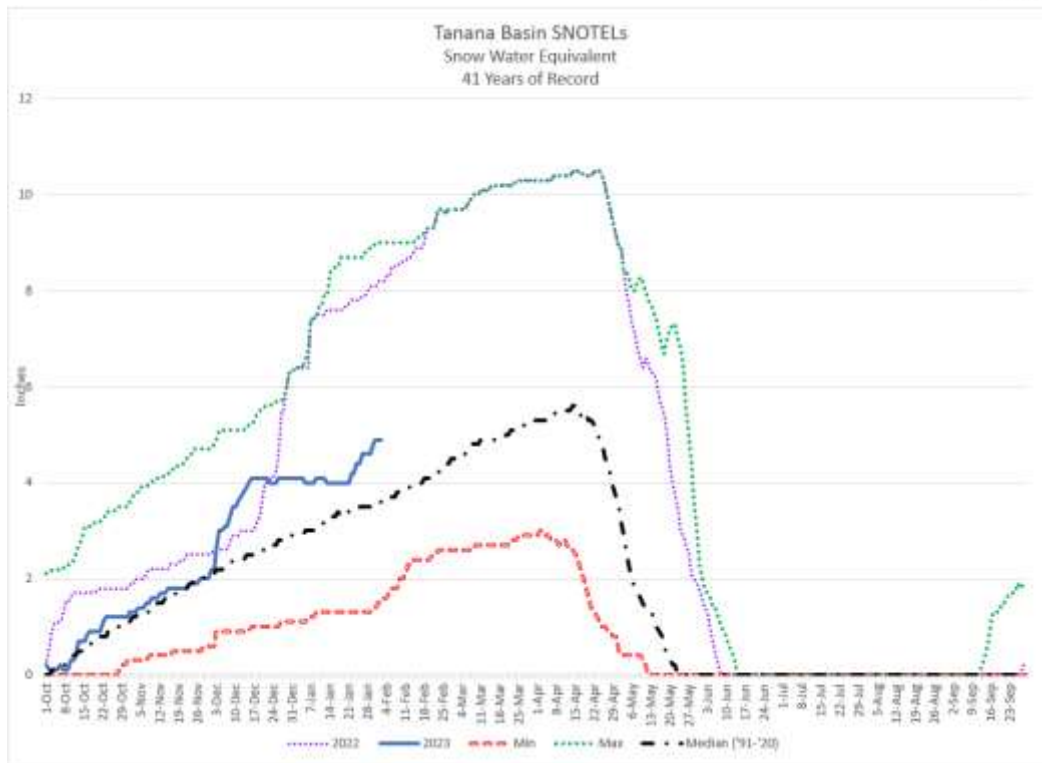
Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
American Creek	1050	8	11	---	1.4	2.4	---
Atigun Pass	4800	31	22	---	---	---	---
Eagle Summit	3650	9	---	---	---	---	---
Fort Yukon	430	9	6	---	---	---	---
Hess Creek	1000	13	11	12	1.7	1.9	1.8
Jack Wade Jct	3585	---	---	---	2.5	3.2	---
Seven Mile	600	13	10	12	2.6	2.1	1.9
Thirty Mile	1350	19	19	18	3.0	3.6	3.1
Upper Nome Creek	2520	13	12	---	2.4	2.2	---
January 1st							
American Creek	1050	14	25	---	2.6	4.1	---
Atigun Pass	4800	32	33	---	---	---	---
Eagle Summit	3650	6	---	---	---	---	---
Fort Yukon	430	11	22	---	---	---	---
Jack Wade Jct	3585	---	---	---	3.7	5.0	---
Upper Nome Creek	2520	14	46	---	3.5	7.4	---
February 1st							
American Creek	1050	23	23	---	4.2	4.6	---
Atigun Pass	4800	33	---	---	---	---	---
Borealis	1330	24	29	19	3.5	5.6	3.2
Eagle Summit	3650	14	18	---	---	---	---
Fort Yukon	430	15	21	---	---	---	---
Fossil	1400	23	28	18	3.4	6.8	3.0
Hess Creek	1000	25	27	21	3.3	5.9	3.7
Jack Wade Jct	3585	---	---	---	4.9	6.0	---
Seven Mile	600	29	28	22	4.2	5.1	3.6
Thirty Mile	1350	34	43	28	5.6	9.8	5.4
Upper Nome Creek	2520	22	34	---	4.4	7.3	---
Windy Gap	1900	27	---	22	4.5	---	4.0
Wolf	1200	29	---	19	4.4	---	3.1
*Estimate							

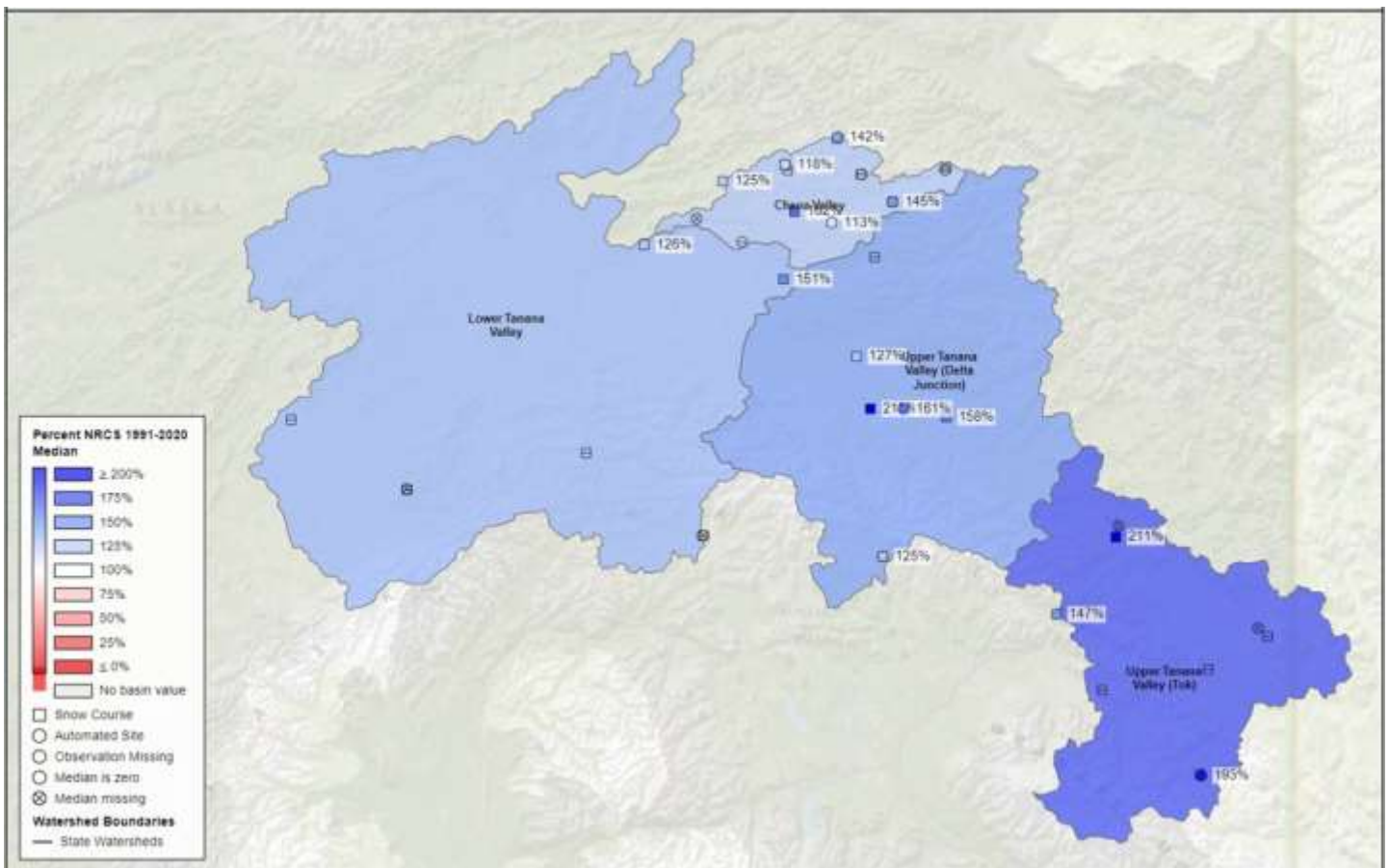
Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
American Creek	1050	4.4	3.6	---	---
Atigun Pass	4800	3.8	4.6	3.8	100%
Eagle Summit	3650	3.7	7.6	3.6	103%
Fort Yukon	430	3.1	3.7	2.6	119%
Jack Wade Jct	3585	5.6	4.9	---	---
Upper Nome Creek	2520	5.8	7.9	4.0	145%

Tanana Basin



Snowpack Map



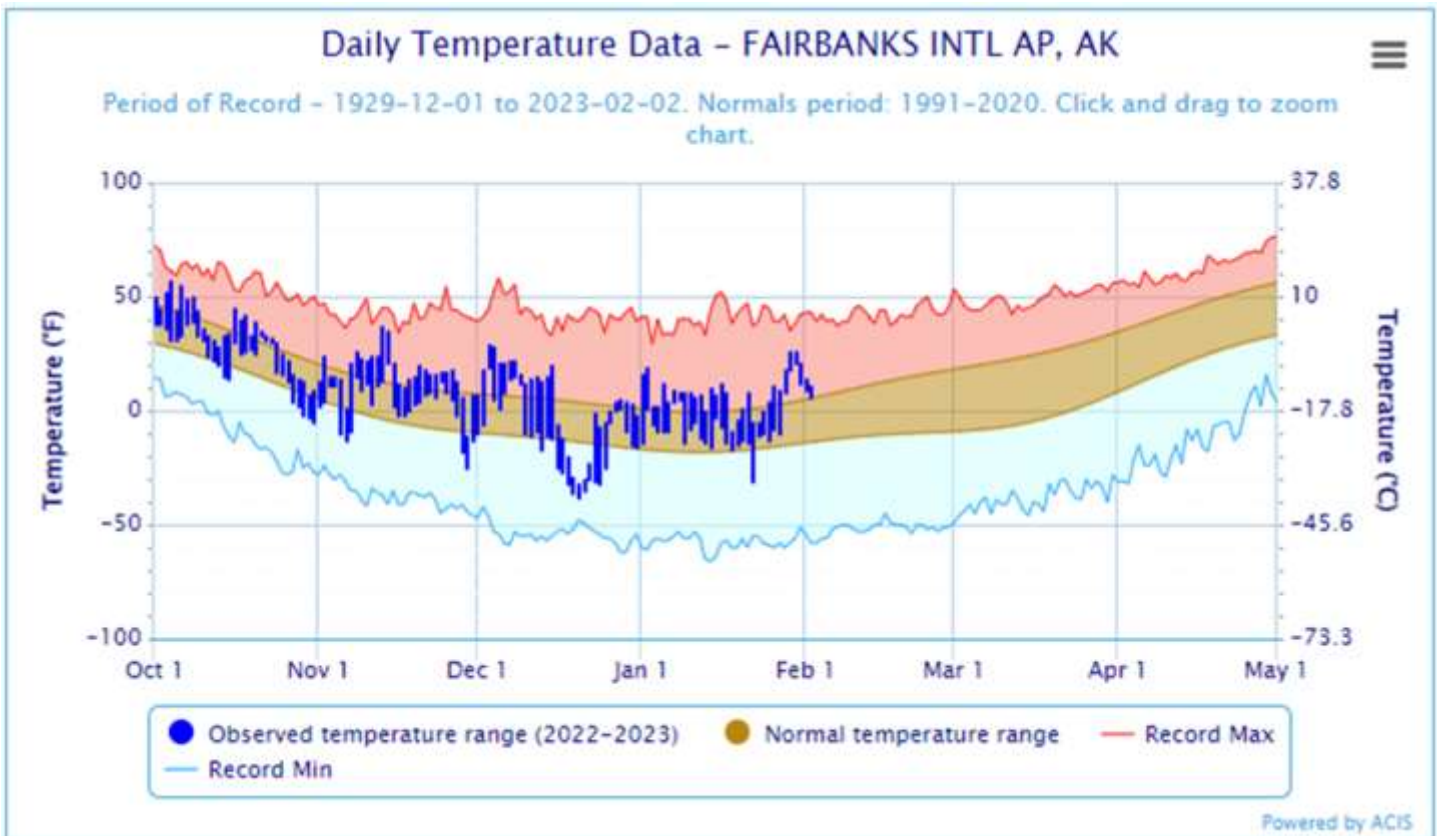
Tanana Basin

Snowpack

The Tanana basin snowpack is well above normal. There isn't a single station in the basin reporting below average snowpack on February 1. The highest departure from normal is in the upper reaches of the basin. The 5.9" of SWE measured at the Tok snow course is a 60-year record. The second highest year on record was last year when 5.2" of SWE was measured. The fact that the water content measured in 32" of snow depth is a 60-year record is a testament to how little snowfall occurs in this area. However, The Look Eyrie SNOLITE is reporting 131" of snow depth, the highest February 1 reading in its four-year record, and an indication that record numbers in the valleys extend into the higher elevations. The Chisana SNOTEL is also reporting it's 15-year period of record maximum SWE for this date. This site started accumulating snowpack early. It had 1.0" of SWE when water year 2023 started and robust snowfall continued through the month. The 1.4" SWE recorded on October 12 is a single day record for this site. November snowfall was below normal, but above normal snowfall was reported for the months of December and January. The basin as a whole is reporting 151% of normal February 1 SWE, which makes the Tanana the most robust snowpack in the state, as a percentage of normal.

Temperature Chart

Source: NOAA ACIS



Tanana Basin

Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
Bonanza Creek	1150	13	---	9	1.6	---	1.2
Caribou Creek	1250	10	5	10	1.5	0.9	1.6
Caribou Snow Pillow	900	13	---	11	1.8	---	1.6
Chena Lakes	500	11	---	---	1.9	---	---
Chisana	3320	15	7	---	3.5	0.9	1.5
Cleary Summit	2230	16	18	18	2.2	3.8	2.8
Colorado Creek	700	16	11	13	1.6	1.8	1.7
Creamers Field	440	6	4	---	1.3	0.7	---
Faith Creek	1750	13	12	10	1.4	1.8	1.2
Fielding Lake	3000	16	14	---	3.1	2.5	---
Fort Greely	1500	14	17	10	2.6	3.2	1.3
French Creek	1800	19	20	16	2.9	4.6	2.8
Gerstle River	1200	13	16	10	2.0	3.2	1.6
Granite Crk	1240	10	13	---	2.3	3.2	1.4
Kantishna	1550	18	12	---	2.8	2.4	---
Little Chena Ridge	2000	11	10	---	1.1	2.1	2.0
Monument Creek	1850	12	10	---	1.8	2.3	2.2
Mt. Ryan	2800	11	10	---	1.8	2.1	2.0
Munson Ridge	3100	16	21	---	2.9	4.6	3.6
Nenana	415	8	5	---	---	---	---
Paradise Hill (SNOTEL)	2010	10	11	---	2.0	2.2	---
Shaw Creek Flats	980	9	13	9	1.3	2.4	1.0
Teuchet Creek	1640	9	---	---	1.5	---	1.9
Upper Chena	2850	17	17	---	2.7	---	2.5
January 1st							
Chena Lakes	500	15	27	---	3.2	6.6	---
Chisana	3320	21	17	---	4.5	2.5	2.2
Creamers Field	440	11	23	---	2.5	4.7	---
Fielding Lake	3000	24	27	---	5.5	4.8	---
Granite Crk	1240	17	31	---	3.7	6.5	2.2
Kantishna	1550	22	21	---	4.1	4.6	---
Little Chena Ridge	2000	12	35	---	3.0	7.4	3.0
Monument Creek	1850	16	41	---	3.7	8.0	3.0
Mt. Ryan	2800	17	40	---	3.8	7.6	2.8
Munson Ridge	3100	23	---	---	5.3	13.4	4.3
Nenana	415	14	25	---	---	---	---
Paradise Hill	2200	22	---	---	4.0	---	---
Paradise Hill (SNOTEL)	2010	17	26	---	3.5	4.5	---
Upper Chena	2850	24	49	---	5.0	---	3.3

Tanana Basin

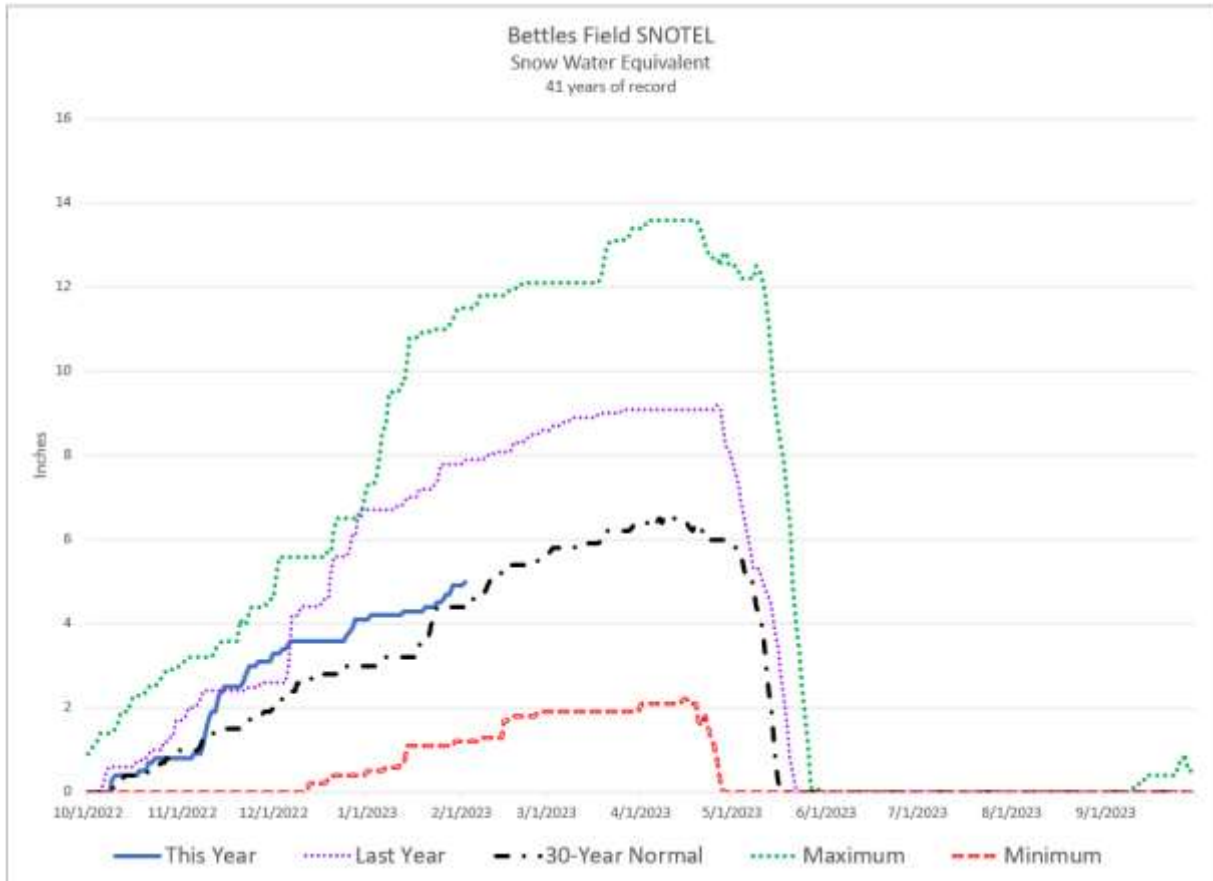
Snowpack Data (continued)

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
February 1st							
Bonanza Creek	1150	25	---	19	4.8	---	3.8
Caribou Creek	1250	26	26	18	6.4	6.4	3.2
Caribou Snow Pillow	900	26	26	18	6.8	6.8	3.3
Chena Lakes	500	19	22	---	---	6.1	---
Chisana	3320	---	20	---	5.2	3.1	2.7
Cleary Summit	2230	32	42	24	5.5	10.4	4.4
Colorado Creek	700	27	31	19	4.7	6.9	2.9
Creamers Field	440	16	20	---	3.6	4.8	---
Faith Creek	1750	26	31	20	4.4	6.3	3.2
Fielding Lake	3000	33	24	---	7.3	5.4	---
Fielding Lake	3000	38	39	33	7.9	8.5	6.3
Fort Greely	1500	26	32	14	5.1	6.4	2.4
French Creek	1800	30	42	20	6.2	11.0	4.1
Gerstle River	1200	20	33	15	3.8	6.0	2.4
Granite Crk	1240	23	29	---	4.5	7.6	2.8
Kantishna	1550	26	21	---	4.8	5.3	---
Little Chena Ridge	2000	17	29	---	4.0	7.6	3.4
Mentasta Pass	2430	30	27	21	5.6	5.4	3.8
Mt. Ryan	2800	26	34	---	5.1	8.1	3.6
Munson Ridge	3100	30	53	---	6.2	14.1	5.5
Nenana	415	21	22	---	---	---	---
Paradise Hill (SNOTEL)	2010	21	28	---	3.9	5.7	---
Shaw Creek Flats	980	18	34	13	2.8	7.2	2.2
Teuchet Creek	1640	18	29	---	4.2	6.8	2.9
Tok Junction	1650	32	31	18	5.9	5.2	2.8
*Estimate							

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Chena Lakes	500	---	9.4	---	---
Chisana	3320	5.2	3.1	2.6	200%
Creamers Field	440	3.1	7.3	---	---
Fielding Lake	3000	9.3	7.1	---	---
Granite Crk	1240	4.4	6.7	3.0	147%
Kantishna	1550	5.6	9.0	4.1	137%
Little Chena Ridge	2000	4.6	7.2	3.4	135%
Monument Creek	1850	---	8.8	4.0	---
Mt. Ryan	2800	4.7	8.0	3.5	134%
Munson Ridge	3100	5.7	11.9	5.2	110%
Nenana	415	4.2	7.1	---	---
Paradise Hill	2010	4.7	5.4	---	---
Tok	1630	5.0	4.4	---	---
Teuchet Creek	1640	3.8	7.2	3.1	123%
Upper Chena	2850	---	5.8	4.6	---

Western Interior Basins



Snowpack

Koyukuk

The Koyukuk basin has an above normal snowpack on February 1, 2023. There is a gradation in the basin where the upper basin has the lowest measured SWE values and the lower basin has the highest values. The reported 33" of snow depth, and estimated 6.6" water content, at the Cloverleaf aerial marker is a record in its 18-year history. The basin had above normal precipitation in October and November, and below normal precipitation in December and January.

Kuskokwim

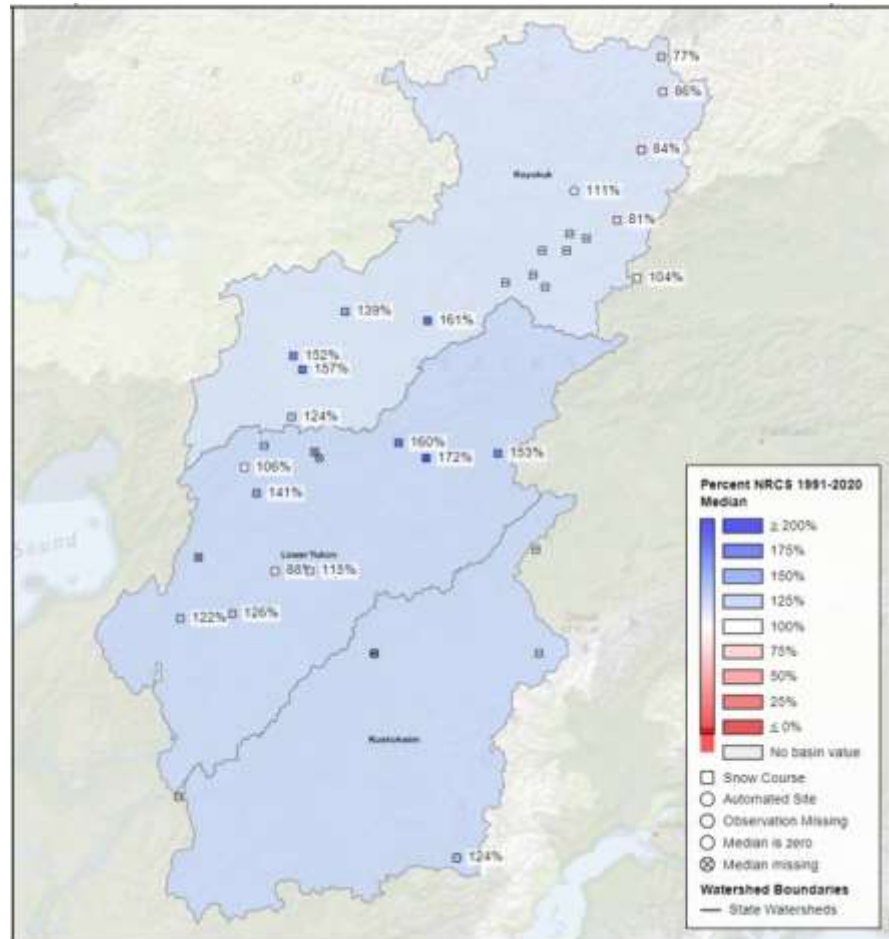
Data points for this basin are limited but point to an above average snowpack in the upper Kuskokwim on February 1, 2023. McGrath and Telaquana Lake SNOTELs are both reporting above average SWE for the date. In the lower Kuskokwim, Aniak and Bethel both show above average precipitation for the water year to date.

Lower Yukon

The Lower Yukon has an above average snowpack on February 1, 2023. All aerial markers with enough data to calculate a normal are showing above normal SWE. The 27" of depth estimated from the Lower Nowitna aerial marker is the 3rd highest in 16 years of observation.

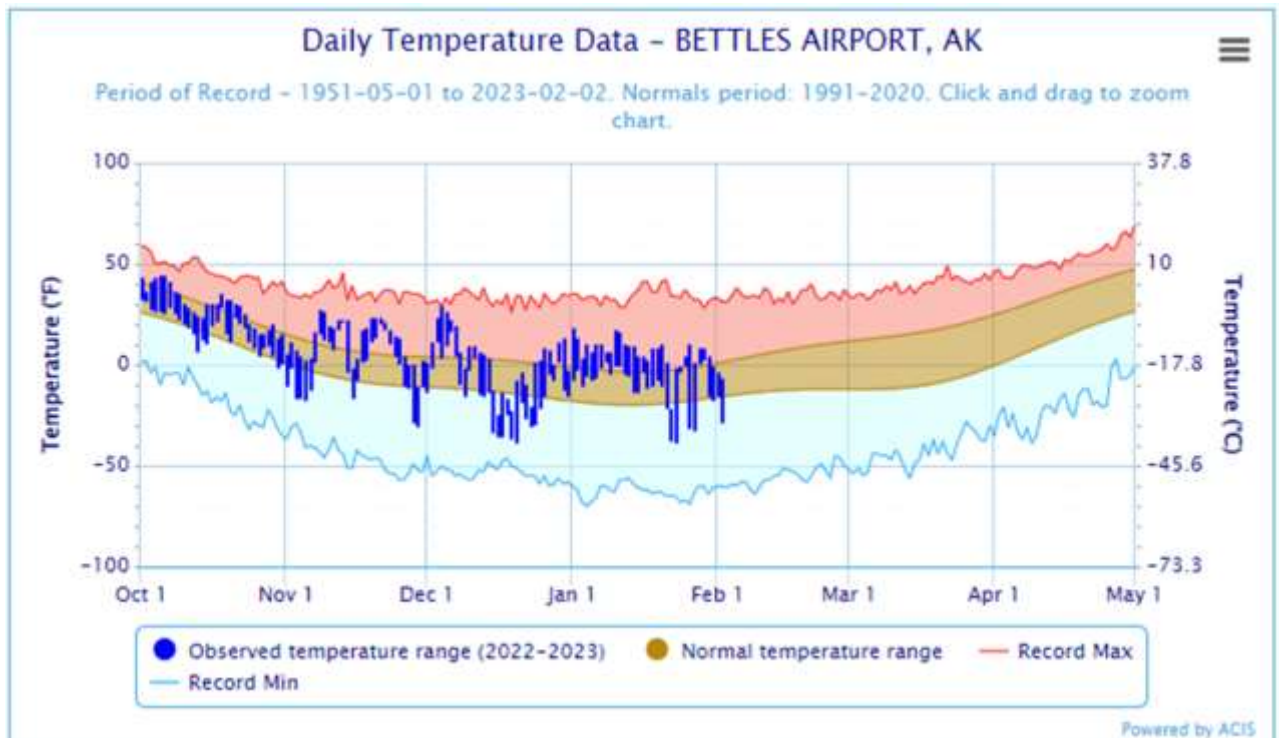
Western Interior Basins

Snowpack Map



Temperature Data

Source: NOAA



Western Interior Basins

Precipitation Data

		Inches Accumulated since October 1st (as of February 1, 2022)			
Site Name	Elev.	This Year	Last Year	1991-2020 Normal	% of Normal
Koyukuk					
Bettles Field	640	4.9	7.2	4.9	100%
Coldfoot	1040	5.0	5.2	4.0	125%
Gobblers Knob	2030	5.5	5.4	4.5	122%
Kuskokwim					
Aniak	80	9.8	11.9	4.6	213%
McGrath	340	8.4	9.1	---	---
Telaquana Lake	1275	6.3	10.2	---	---
Lower Yukon					
Hozatka Lake	206	5.3	5.4	---	---
Galena AK	410	4.7	6.1	---	---

Snowpack Data

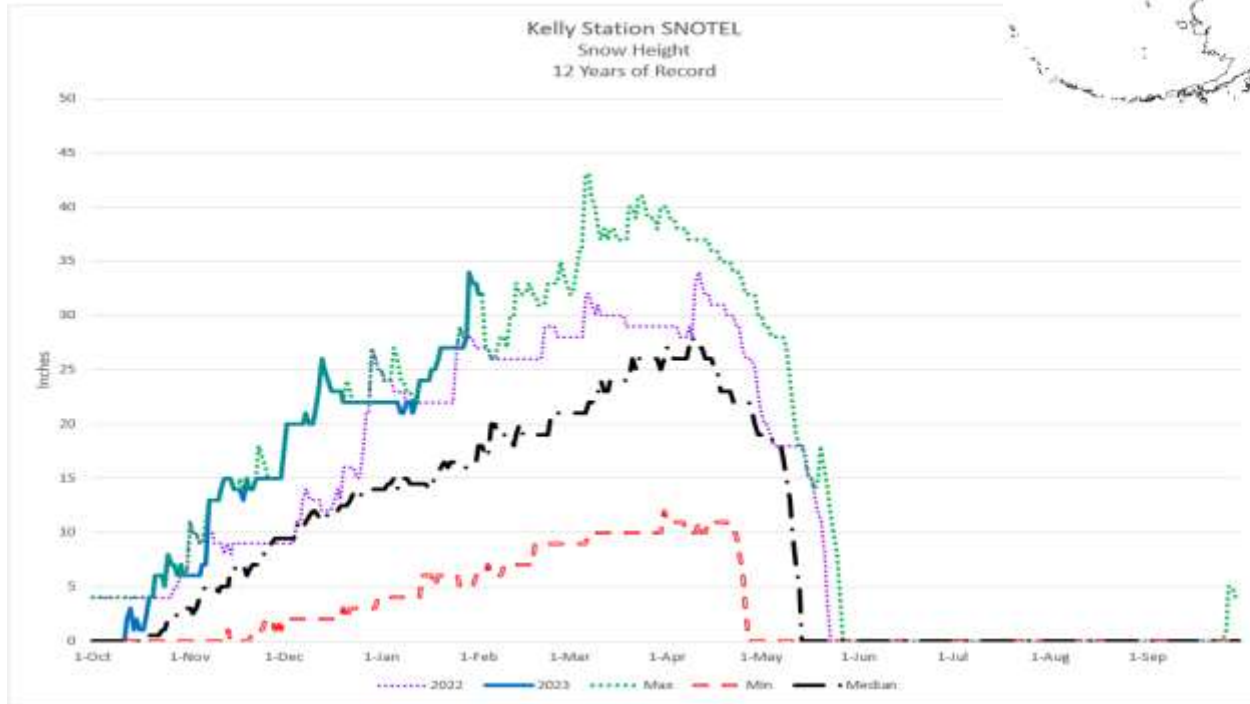
Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
Koyukuk							
December 1st							
Bettles Field	640	17	11	---	3.3	2.6	2.0
Bonanza Forks	1200	17	8	15	2.4	1.9	1.9
Coldfoot	1040	14	8	---	2.5	1.5	2.0
Disaster Creek	1550	13	9	11	1.6	1.8	2.0
East Chalatna	430	12	---	---	---	---	---
Gobblers Knob	2030	5	1	---	---	---	---
Kaldoyeit	750	18	---	12	---	---	1.2
Kanuti Chalatna	670	15	---	11	---	---	---
Minnkokut	580	19	---	12	---	---	1.4
Nolitna	560	23	---	11	---	---	1.2
Table Mountain	2200	12	11	11	1.4	1.8	2.0
January 1st							
Bettles Field	640	18	35	---	4.1	6.7	3.0
Cloverleaf	170	21	24	19	---	---	---
Coldfoot	1040	16	35	---	3.1	5.5	3.0
Colville Bend	170	26	32	21	---	---	---
Gobblers Knob	2030	5	14	---	---	---	---
Huggins Creek	290	21	48	---	---	---	---
Jr Slough	160	24	26	18	---	---	---
Treat Island	190	15	45	20	---	---	---
February 1st							
Bettles Field	640	22	34	---	4.9	7.8	4.4
Bonanza Forks	1200	23	---	21	3.4	---	4.2
Cloverleaf	170	33	30	23	6.6*	6.6*	4.2
Coldfoot	1040	18	32	---	3.6	6.4	4.3
Colville Bend	170	34	34	24	7.0*	7.2*	4.6
Disaster Creek	1550	19	25	17	2.4	4.0	2.8
Gobblers Knob	2030	1	7	---	---	---	---
Huggins Creek	290	32	48	21	6.1*	9.1*	3.8
Jr Slough	160	27	31	24	5.7*	6.9*	4.6
Kanuti Lake	524	20	---	---	---	---	---
Table Mountain	2200	18	---	18	2.4	---	3.1
Treat Island	190	26	42	21	5.0*	8.2*	3.6
*Estimate							

Western Interior Basins

Snowpack Data -continued

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
Kuskokwim							
December 1st							
McGrath	340	19	8	---	3.9	1.9	---
Telaquana Lake	1550	15	---	---	1.8	---	---
Telaquana Lake (SNOTEL)	1275	14	1	---	2.5	0.4	---
January 1st							
McGrath	340	25	16	---	5.5	5.9	---
Telaquana Lake	1550	18	---	14	2.9	---	2.8
Telaquana Lake (SNOTEL)	1275	17	16	---	4.1	3.5	---
February 1st							
McGrath	340	34	26	---	7.1	8.1	---
Telaquana Lake	1550	21	20	14	3.6	4.0	2.9
Telaquana Lake	1275	19	17	---	4.7	4.8	---
Lower Yukon							
December 1st							
Galena AK	410	8	6	---	2.2	1.2	---
Hozatka Lake	206	10	4	---	---	---	---
January 1st							
Bullfrog	100	24	31	---	---	---	---
Deer Creek	195	24	42	24	---	---	---
Galena AK	410	11	22	---	3.2	4.4	---
Hozatka Lake	206	14	18	---	---	---	---
Little Mud River	855	12	24	15	---	---	---
Lower Nowitna River	205	21	29	18	---	---	---
Middle Innoko	150	27	28	---	---	---	---
Ninemile Island	140	19	31	20	---	---	---
Pike Trap Lake	130	9	15	14	---	---	---
Squirrel Creek	150	25	36	26	---	---	---
Upper Innoko	180	26	24	---	---	---	---
Wapoo Hills	220	21	31	---	---	---	---
Yankee Slough	100	30	32	---	---	---	---
February 1st							
Bullfrog	100	31	42	---	6.5*	9.4*	---
Deer Creek	195	36	47	23	6.9*	10.7*	4.3
Galena AK	410	21	27	---	4.4	5.7	---
Galena Ecological Site	128	25	28	---	4.5*	4.8*	---
Hozatka Lake	206	26	20	---	---	---	---
Little Mud River	855	25	21	16	4.6*	5*	3.0
Lower Nowitna River	205	27	33	18	5.5*	7.5*	3.2
Middle Innoko	150	32	33	30	6.8*	7.8*	5.4
Ninemile Island	140	26	35	28	5.3*	7.7*	5.0
Pike Trap Lake	130	20	21	13	3.1*	4.6*	2.2
Squirrel Creek	150	31	36	29	6.3*	7.8*	5.1
Upper Innoko	180	33	30	31	6.9*	7.2*	6.0
Wapoo Hills	220	36	36	36	6.7*	8.7*	7.6
Yankee Slough	100	39	42	32	8.3*	9.9*	6.8
*Estimate							

Arctic and Kotzebue Sound



Snowpack

Arctic

On February 1, 2023, the stations along the Dalton Highway are reporting above average precipitation for the water year. Climatologically the Arctic is a dry place. At the Prudhoe Bay SNOTEL the period of record average water year to date precipitation for February 1 is 2.0", which is the exact number being reported this year. The Utqiagvik Airport, which averages 1.21" over its period-of-record water year to February 1, has received 2.49" of precipitation since October 1, making it the 3rd wettest in 94 years of observation. It should be noted that Prudhoe Bay only has 20 years of observations and this environment is a very difficult place to measure precipitation.

Kotzebue

The Kotzebue region has few points that provide snow and precipitation data. The Dahl Creek SNOTEL was installed near Kobuk this past summer and will help fill this data gap. On February 1, 2023, Dahl Creek was reporting 7.8" of SWE, with approximately 25% of this occurring over the first 8 days of December. The instrument that measures SWE at the Kelly Station SNOTEL is malfunctioning this season. The reported depth of 32" and estimated SWE of 6.9" is one of the deepest snowpacks for February 1 in the station's history. The Kotzebue airport is reporting 4.42" precipitation since October 1 which makes it the 5th wettest in 85 years

Precipitation Data

		Inches Accumulated since October 1st (as of February 1, 2022)			
Site Name	Elev.	This Year	Last Year	1991-2020 Normal	% of Normal
Arctic					
Atigun Camp	3400	1.8	1.5	1.9	95%
Atigun Pass	4800	4.6	3	3.8	121%
Imnaviat Creek	3050	2.4	1.9	2.1	114%
Prudhoe Bay	30	2.6	2.0	1.9	137%
Sagwon	1000	3.0	1.9	2.0	150%
Kotzebue Sound					
Kelly Station	310	4.1	5.8	3.9	105%

Arctic and Kotzebue Sound

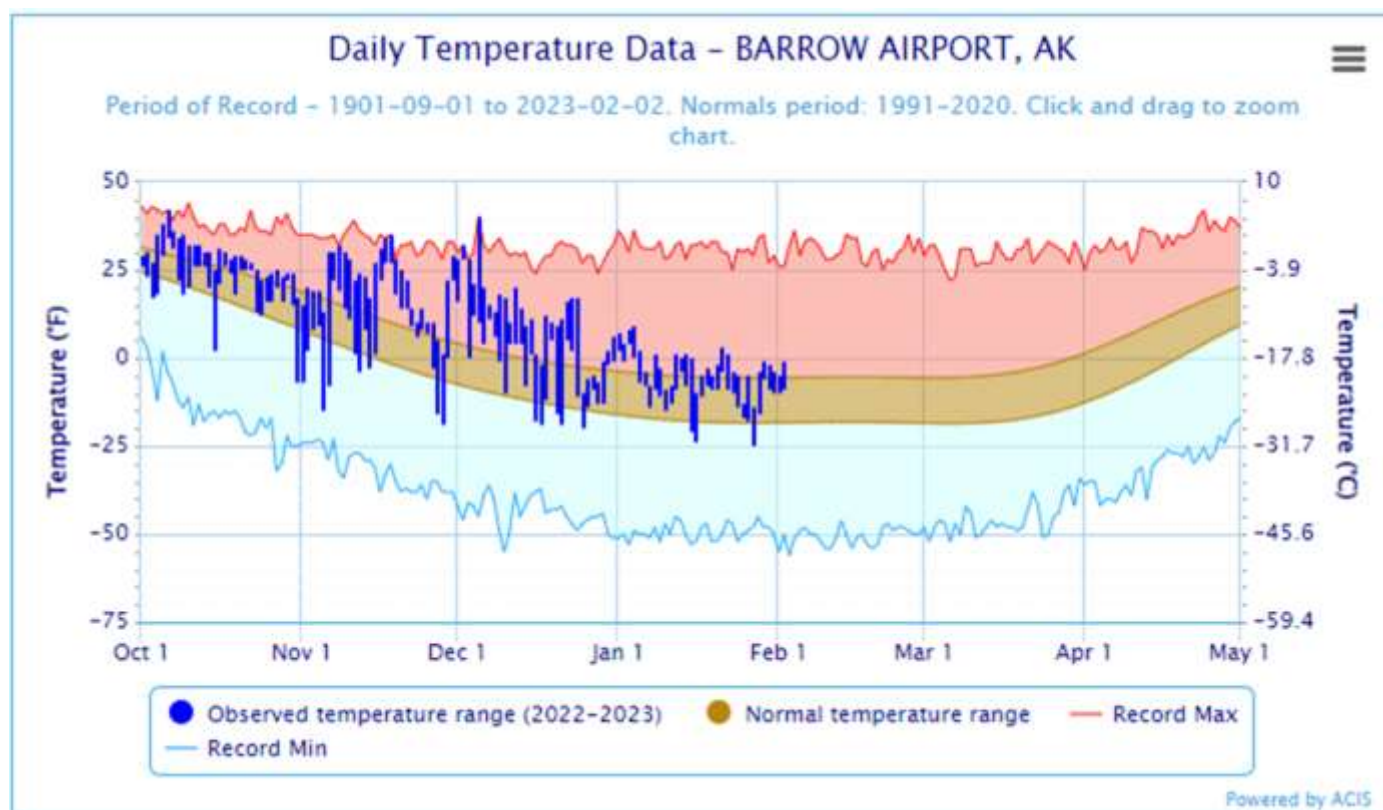
Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
Atigun Pass	4800	31	22	---	---	---	---
Dahl Creek	260	19	---	---	2.7	---	---
Imnaviat Creek	3050	15	---	---	---	---	---
Kelly Station	310	18	9	---	---	1.6	0.9
Prudhoe Bay	30	7	16	---	---	---	---
Sagwon	1000	10	27	---	---	---	---
January 1st							
Atigun Pass	4800	32	33	---	---	---	---
Dahl Creek	260	24	---	---	5.0	---	---
Imnaviat Creek	3050	17	23	---	---	---	---
Kelly Station	310	22	25	---	---	4.3	2.6
Prudhoe Bay	30	7	15	---	---	---	---
Sagwon	1000	11	16	---	---	---	---
February 1st							
Atigun Pass	4800	33	---	---	---	---	---
Dahl Creek	260	34	---	---	6.7	---	---
Imnaviat Creek	3050	20	21	---	---	---	---
Kelly Station	310	32	27	---	6.9*	5.0	3.3
Prudhoe Bay	30	13	15	---	---	---	---
Sagwon	1000	20	17	---	---	---	---
*Estimate							

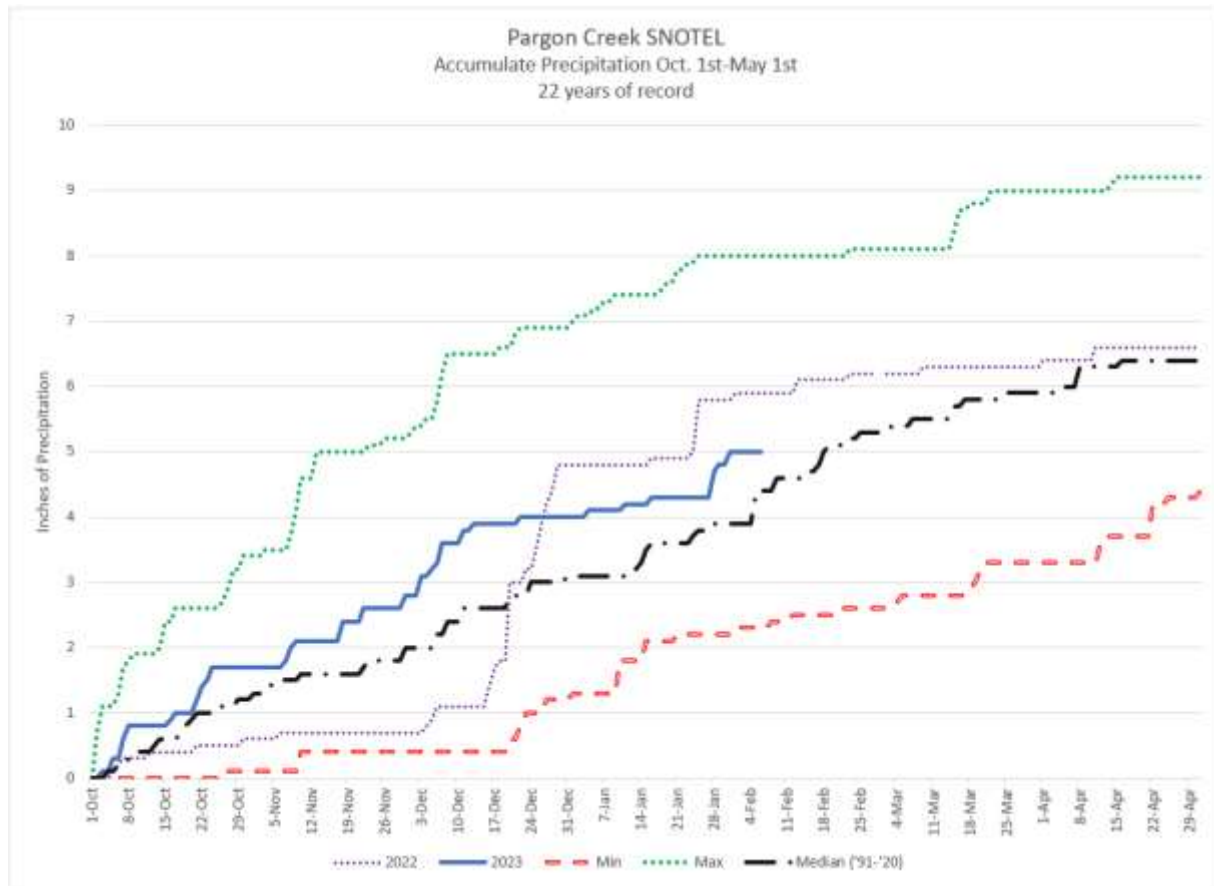
*Estimate

Temperature Data

Source: NOAA ACIS



Norton Sound/Y-K Delta/Bristol Bay



Snowpack

As of February 1 the Seward Peninsula has received above average precipitation this winter at all monitoring stations. There are no exceptional statistics, just average to above average precipitation during all months at all stations. The 6.84" of precipitation being reported at the Nome Airport is well above normal and ranks 13th in 102 years of observation.

Precipitation Data

		Inches Accumulated since October 1st (as of February 1, 2021)			
Site Name	Elev.	This Year	Last Year	1991-2020 Normal	% of Normal
Norton Sound					
Pargon Creek	100	5.0	5.9	3.9	128%
Rocky Point	250	3.8	5.1	4.2	90%

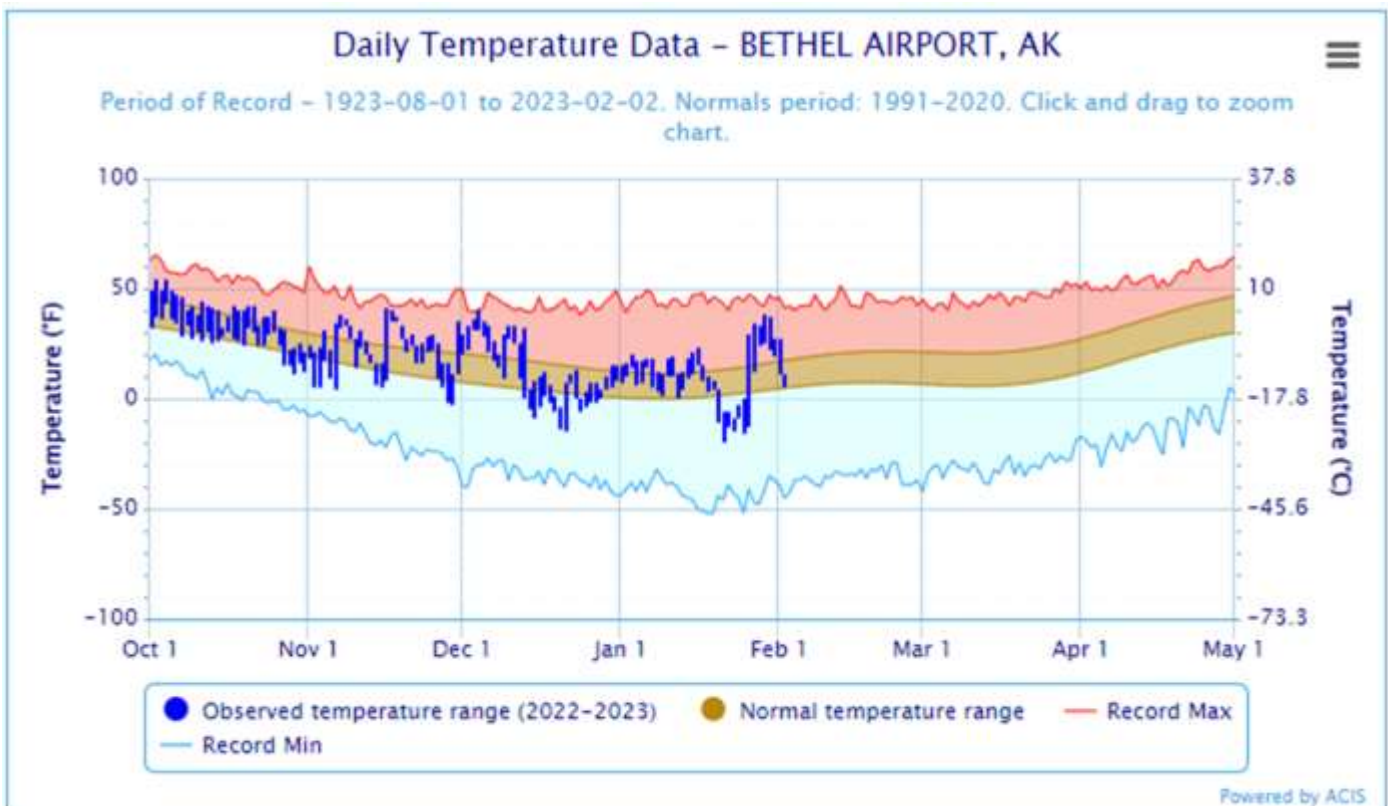
Norton Sound/Y-K Delta/Bristol Bay

Snowpack Data

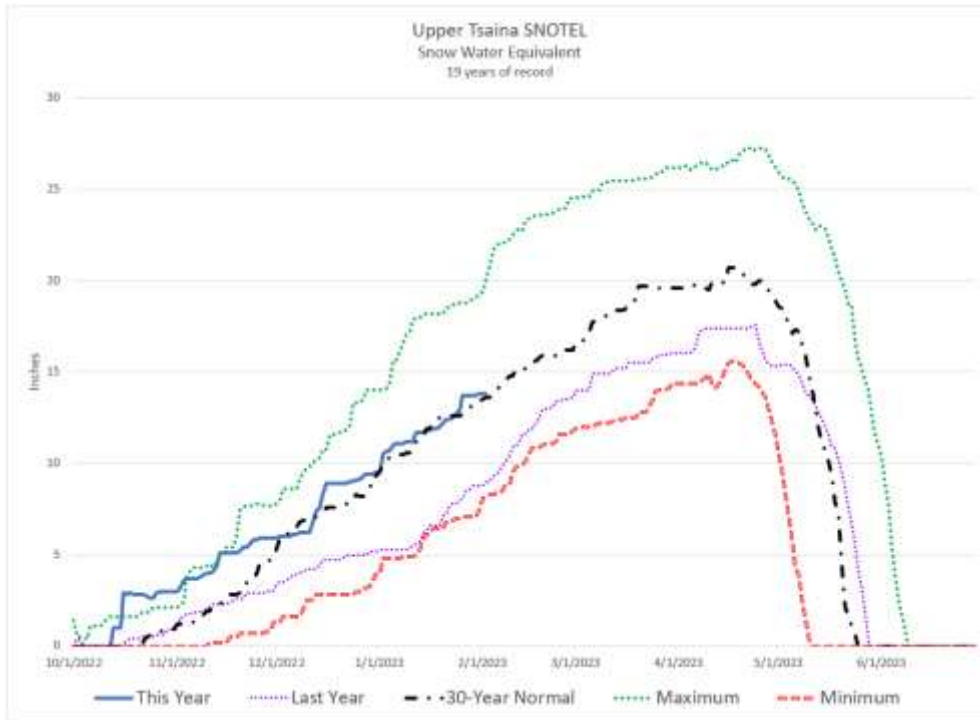
Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
Norton Sound							
December 1st							
Johnsons Camp	25	4	2	---	---	---	---
Pargon Creek	100	2	3	---	---	---	---
Rocky Point	250	14	7	---	---	---	---
January 1st							
Johnsons Camp	25	3	12	---	---	---	---
Pargon Creek	100	7	13	---	---	---	---
Rocky Point	250	12	17	---	---	---	---
February 1st							
Johnsons Camp	25	9	15	---	---	---	---
Pargon Creek	100	12	21	---	---	---	---
Rocky Point	250	23	31	---	---	---	---

Temperature Data

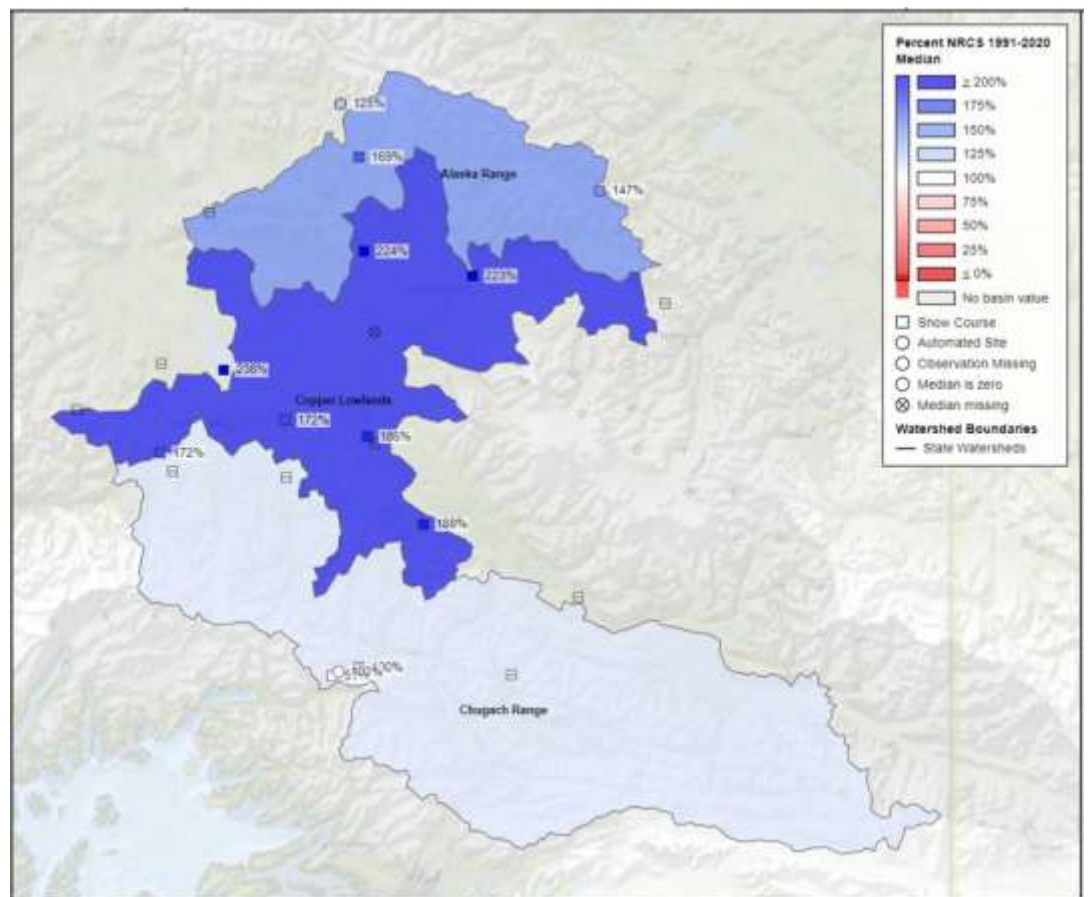
Source: NOAA ACIS



Copper Basin



Snowpack Map



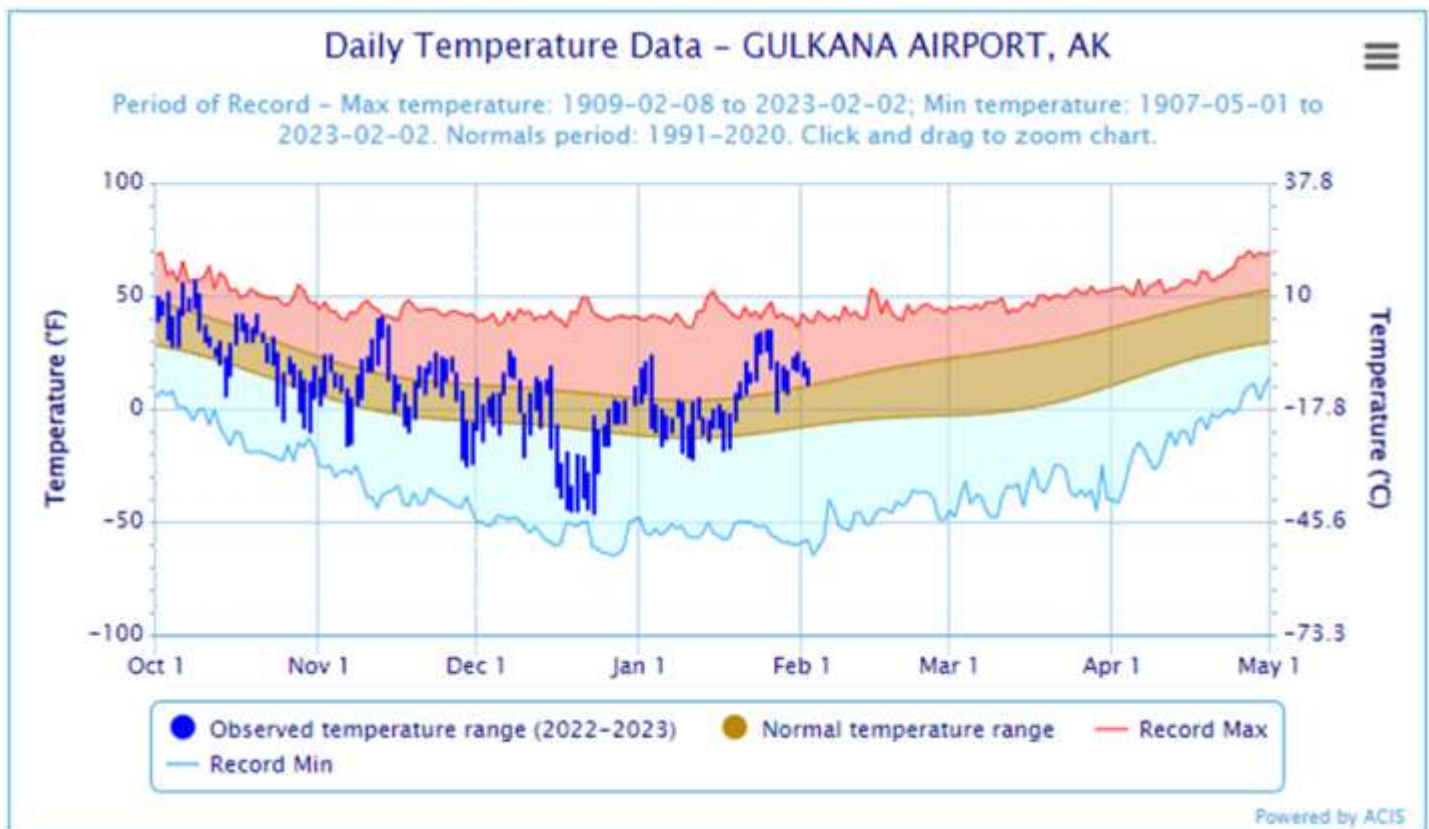
Copper Basin

Snowpack

The snowpack in the Copper River Basin is above normal. Like last year, the parts of the basin with the highest absolute numbers are the least exceptional compared to normal. Worthington glacier snow course, near Thompson pass was measured with 17.0" of SWE on February 1, which is the statistical median of 40 years of observation. Going north in the basin, the 5.8" water content measured at Chistochina snow course is the highest in its 38 years of observation. Other stations reporting period of record high February 1 SWE values include Paxson, Tazlina, and May Creek SNOTEL. The basin index is 134% of the 1991-2020 Median on February 1, 2023.

Temperature Chart

Source: NOAA ACIS



Copper Basin

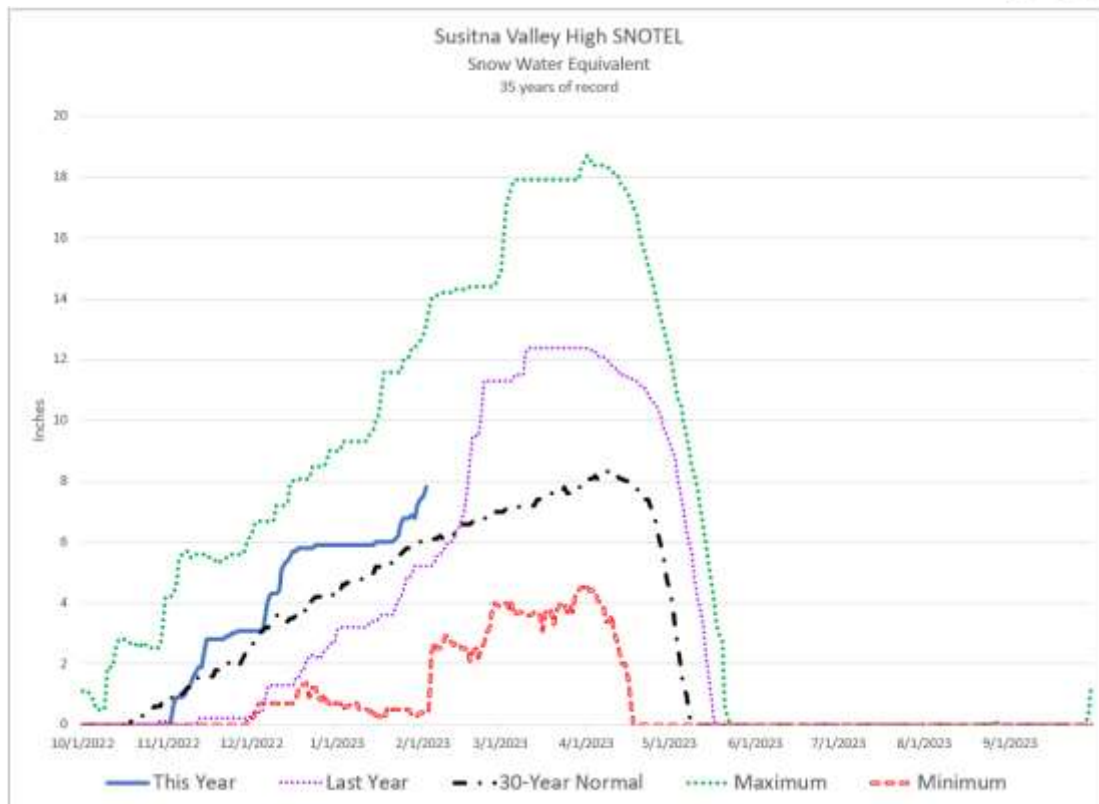
Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
Fielding Lake	3000	16	14	---	3.1	2.5	---
Gulkana River	1830	18	5	---	4.1	0.6	---
Kenny Lake School	1300	11	5	9	2.9	0.6	1.2
Little Nelchina	2650	18	18	12	3.6	3.4	1.5
May Creek	1610	12	7	---	3.5	1.3	1.4
Tazlina	1250	10	5	9	2.6	0.4	1.1
Tolsona Creek	2000	18	11	11	3.7	2.1	1.6
Upper Tsaina River	1750	23	18	---	5.9	3.4	5.3
January 1st							
Fielding Lake	3000	24	27	---	5.5	4.8	---
Gulkana River	1830	28	15	---	6.4	2.3	---
May Creek	1610	23	20	---	5.3	3.3	2.6
Upper Tsaina River	1750	44	23	---	9.5	5.3	9.6
February 1st							
Chistochina	1950	31	27	18	5.8	5.0	2.6
Fielding Lake	3000	38	39	33	7.9	8.5	6.3
Fielding Lake	3000	33	24	---	7.3	5.4	---
Gulkana River	1830	34	22	---	7.4	4.3	---
Haggard Creek	2540	42	---	24	9.2	---	4.1
Kenny Lake School	1300	23	22	14	4.9	3.4	2.6
Little Nelchina	2650	29	32	20	6.2	6.4	3.6
May Creek	1610	29	25	---	6.4	4.6	3.4
Mentasta Pass	2430	30	27	21	5.6	5.4	3.8
Paxson	2650	40	34	27	8.3	6.6	4.9
Tazlina	1250	26	23	16	5.2	3.7	2.8
Tolsona Creek	2000	29	26	18	5.5	5.1	3.2
Tsaina River	1650	52	43	48	14.0	9.6	10.8
Upper Tsaina River	1750	52	40	---	13.8	8.8	13.5
Worthington Glacier	2100	59	54	62	17.0	13.7	17.1
*Estimate							

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Fielding Lake	3000	9.3	7.1	---	---
Gulkana River	1830	7.9	4.2	---	---
May Creek	1610	9.8	4.5	4.8	204%
Upper Tsaina River	1750	21.1	10.5	18.8	112%

Matanuska—Susitna Basin

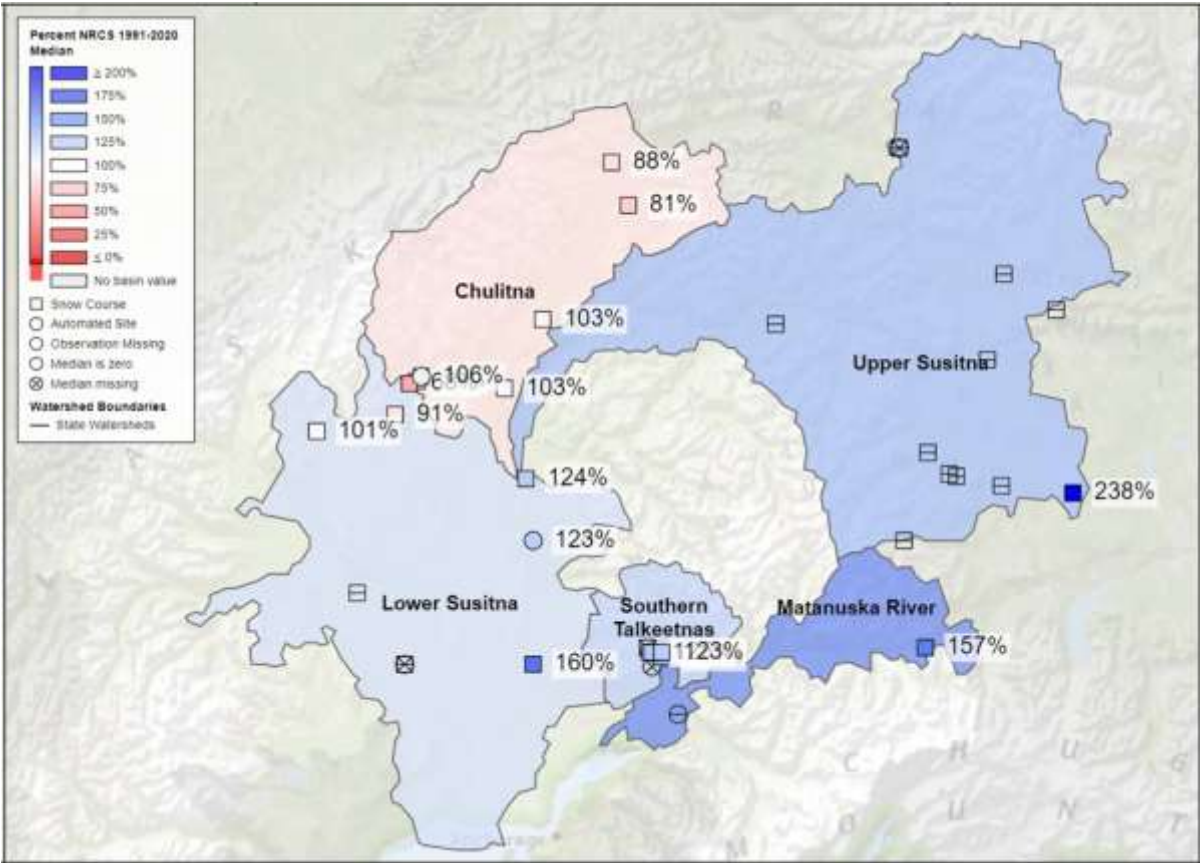


Snowpack

Snowpack in the Matanuska and Susitna basins is generally above average. Most SWE measurements in the region were above normal on February 1, 2023, with two exceptionally above normal measurements. The 7.6" of water content measured at Lake Louise in the upper Susitna is the highest February 1 observation in 60 years of record. Sheep Creek, near the Matanuska glacier was measured at 6.6" water content, the 4th highest in 41 years of record. In the Talkeetna Mountains, the measurements are above average, but not particularly noteworthy. The lowest elevation measurement in the Talkeetnas, the Little Susitna snow course, reported the highest deviation from normal at 137%, likely bolstered by December snowfall that lacked orographic effect and made headlines for totals in Palmer and Anchorage. The only measurements in the region below normal are the snow courses near the Chulitna basin, at the northern reaches of the Parks highway and in the Peters hills.

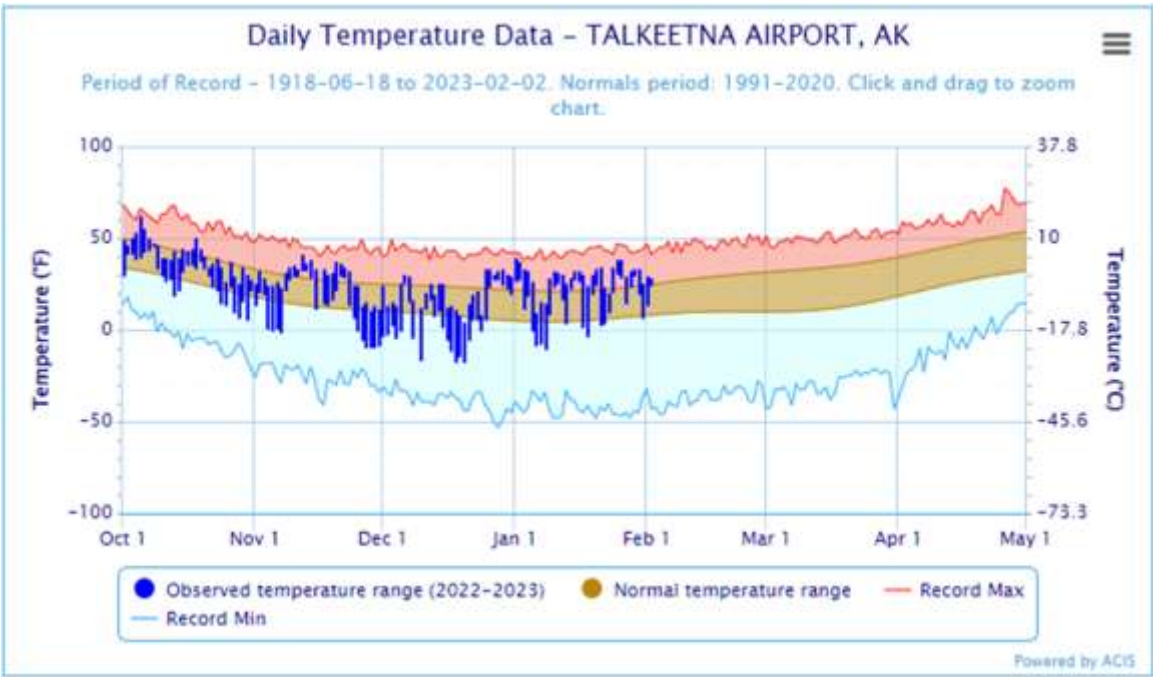
Matanuska—Susitna Basin

Snowpack Map



Temperature Data

Source: NOAA ACIS



Matanuska—Susitna Basin

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Alexander Lake	160	12.2	10.7	---	---
Frostbite Bottom	2700	12.9	11.2	---	---
Independence Mine	3550	14.8	14.2	11.2	132%
Monahan Flat	2710	7.1	---	5.2	137%
Spring Creek	580	6.9	6.0	---	---
Susitna Valley High	375	11.3	9.4	8.9	127%
Tokositna Valley	850	18.0	14.2	16.1	112%

Snowpack Data

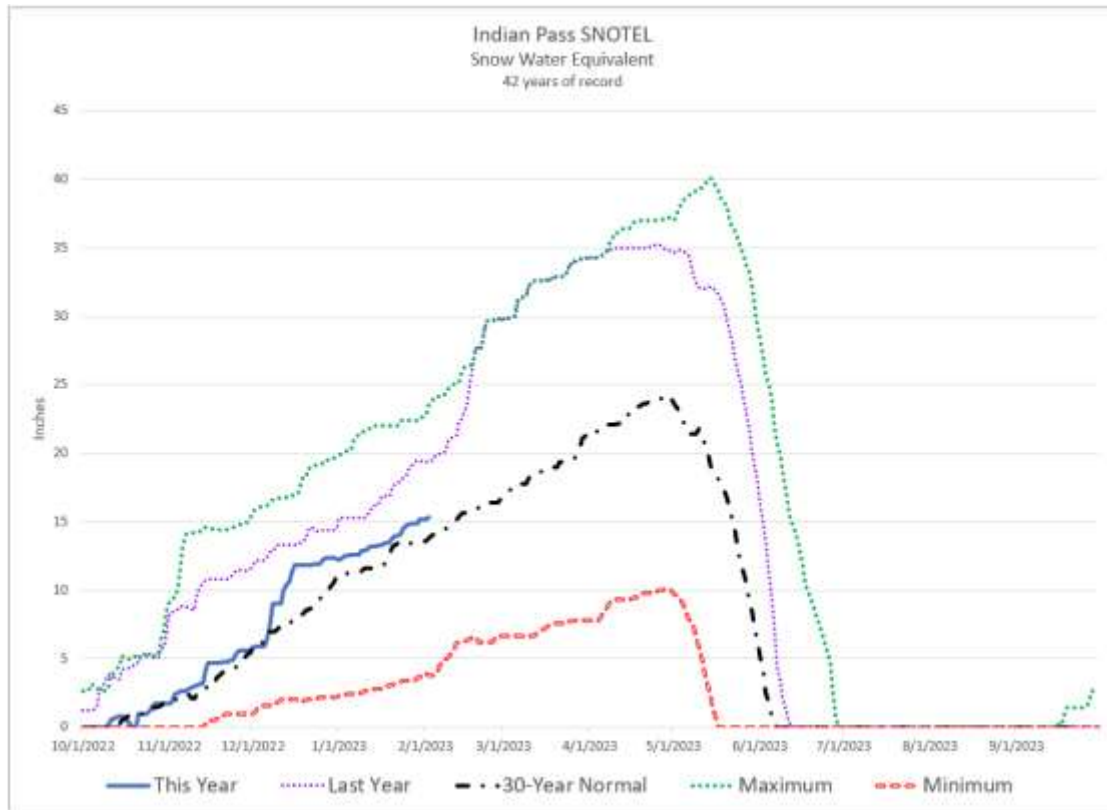
Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
Alexander Lake	160	15	1	---	3.6	0.1	---
Archangel Road	2200	28	17	18	3.7	4.2	3.6
Birthday Pass	4020	38	38	---	8.0	10.7	---
Blueberry Hill	1200	26	13	24	4.0	2.1	4.3
Denali View	700	17	8	19	3.0	1.2	3.4
E. Fork Chulitna	1770	19	18	24	2.9	3.5	3.9
East Palmer	230	8	4	---	---	0.5	---
Fishhook Basin	3300	28	26	26	5.3	6.1	5.4
Frostbite Bottom	2700	19	23	---	4.0	5.9	---
Independence Mine	3550	32	29	30	6.4	7.2	6.8
Independence Mine	3550	29	25	---	6.8	7.5	---
Lake Louise	2400	21	15	12	4.7	3.0	1.5
Little Susitna	1700	26	11	19	3.4	1.5	3.0
Monahan Flat	2710	17	---	---	2.1	2.8	---
Sheep Mountain	2900	19	17	13	3.9	3.6	1.8
Spring Creek	580	9	7	---	---	---	---
Susitna Valley High	375	13	1	---	3.1	0.3	2.5
Talkeetna	350	13	7	14	1.3	---	2.0
Tokositna Valley	850	23	---	---	5.3	---	3.5
Willow Airstrip	200	14	10	14	2.5	---	2.2
January 1st							
Alexander Lake	160	23	17	---	5.0	3.2	---
Frostbite Bottom	2700	31	37	---	8.7	9.3	---
Independence Mine	3550	43	48	---	12.8	12.6	---
Monahan Flat	2710	19	---	---	3.2	5.2	---
Spring Creek	580	0	14	---	---	---	---
Susitna Valley High	375	25	18	---	5.9	3.1	4.4
Tokositna Valley	850	30	32	---	6.8	---	7.2

Matanuska—Susitna Basin

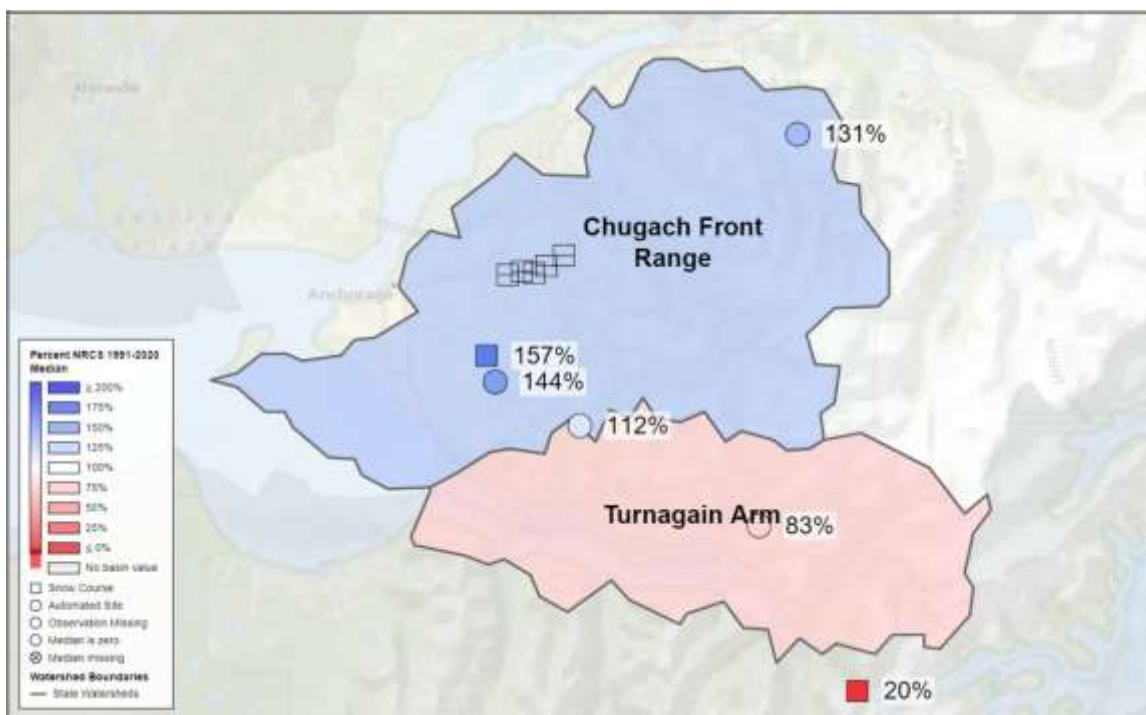
Snowpack Data—continued

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
February 1st							
Alexander Lake	160	28	24	---	6.3	5.3	---
Archangel Road	2200	41	38	35	10.2	9.5	8.3
Birthday Pass	4020	66	74	---	19.8	21.8	---
Blueberry Hill	1200	46	42	40	10.1	10.7	9.8
Chelatna Lake	1450	37	30	36	7.8*	6.3*	7.7
Denali View	700	37	32	32	7.7	7.8	7.5
Dunkle Hills	2700	25	42	30	5.7*	10.3*	6.5
Dutch Hills	3100	52	78	62	11.0*	18.7*	16.1
E. Fork Chulitna	1770	41	47	40	7.6	9.7	9.4
Fishhook Basin	3300	54	53	47	15.1	13.0	12.1
Frostbite Bottom	2700	38	41	---	10.7	11.5	---
Independence Mine	3550	57	60	52	16.5	14.8	14.8
Independence Mine	3550	52	55	---	16.1	16.0	---
Lake Louise	2400	33	32	21	7.6	6.1	3.2
Little Susitna	1700	39	29	32	9.7	6.5	7.1
Monahan Flat	2710	27	---	---	4.5	6.8	---
Nugget Bench	2010	39	49	41	8.6*	10.3*	9.5
Ramsdyke Creek	2220	51	76	56	11.7*	17.6*	14.8
Sheep Mountain	2900	30	29	22	6.6	5.9	4.2
Spring Creek	580	0	6	---	---	---	---
Susitna Valley High	375	31	19	---	7.5	5.2	6.1
Talkeetna	350	29	19	23	5.6	4.6	4.5
Tokositna Valley	850	42	40	---	10.0	---	9.4
Willow Airstrip	200	33	24	25	7.5	4.7	4.7
*Estimate							

Northern Cook Inlet



Snowpack Map



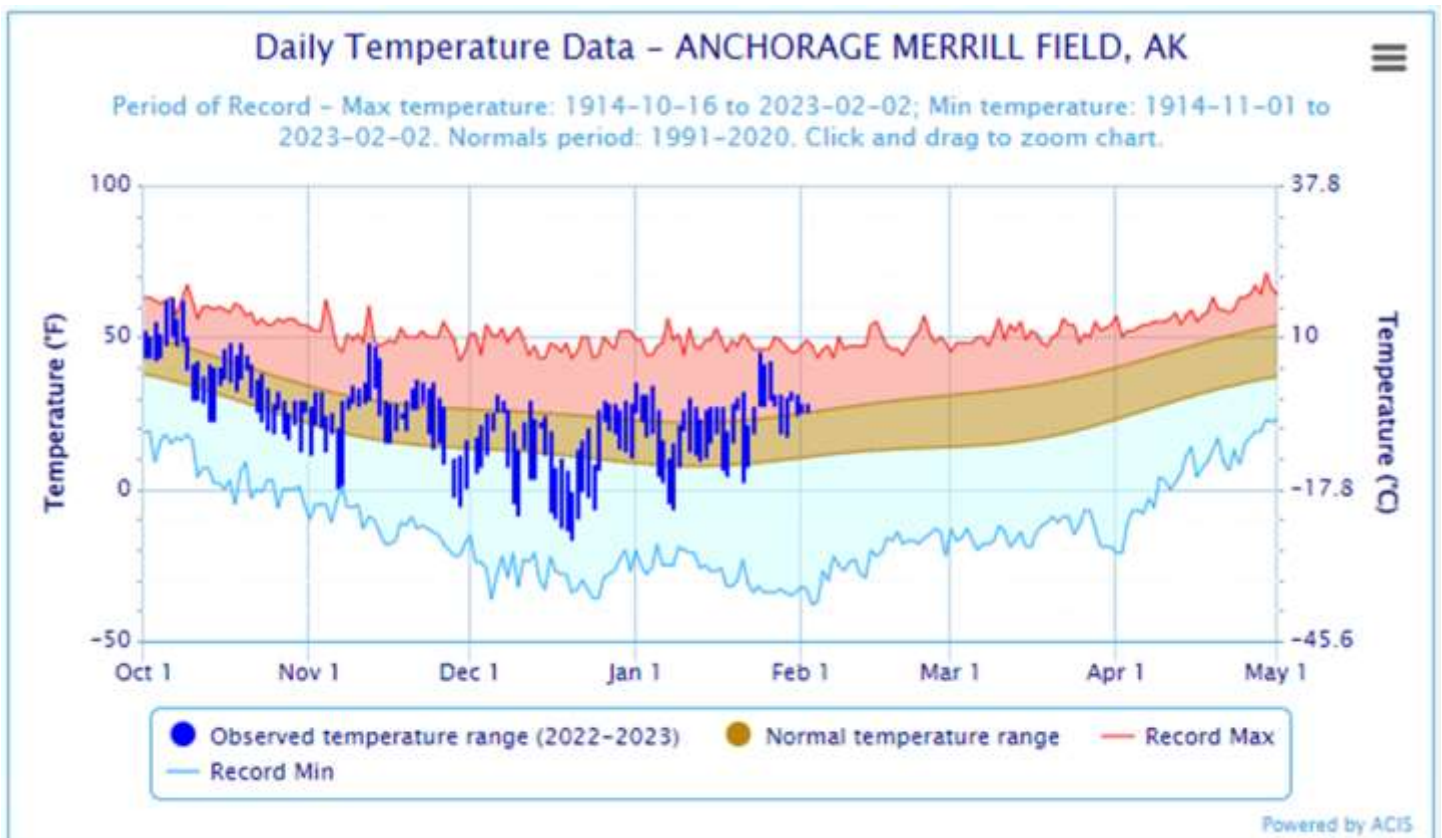
Northern Cook Inlet

Snowpack

Snowpack in the Northern Cook Inlet region on February 1, 2023, is above normal. The highest deviation from normal is in the lower elevations, bolstered by a series of storms in December. The 5.8" SWE measured at the Kincaid snow course was the 4th highest in 31 years of observation, and 193% of normal. Anchorage Airport at 110' ASL recorded 3.82" of precipitation for the month of December, which is more than three times normal and the highest monthly total in 70 years of observation. Anchorage Hillside SNOTEL, at 2,080' ASL, measured the same amount of precipitation for the month; 3.8" precipitation in December is 141% normal, substantial but not record breaking. This indicates that December's snow, which saw the same moisture at low and high elevations, is rare and a large contributor to an above normal snowpack in a region that saw mostly below normal precipitation for October, November and January. A several days thaw in January likely melted snow at low elevations.

Temperature Data

Source: NOAA ACIS



Northern Cook Inlet

Snowpack Data

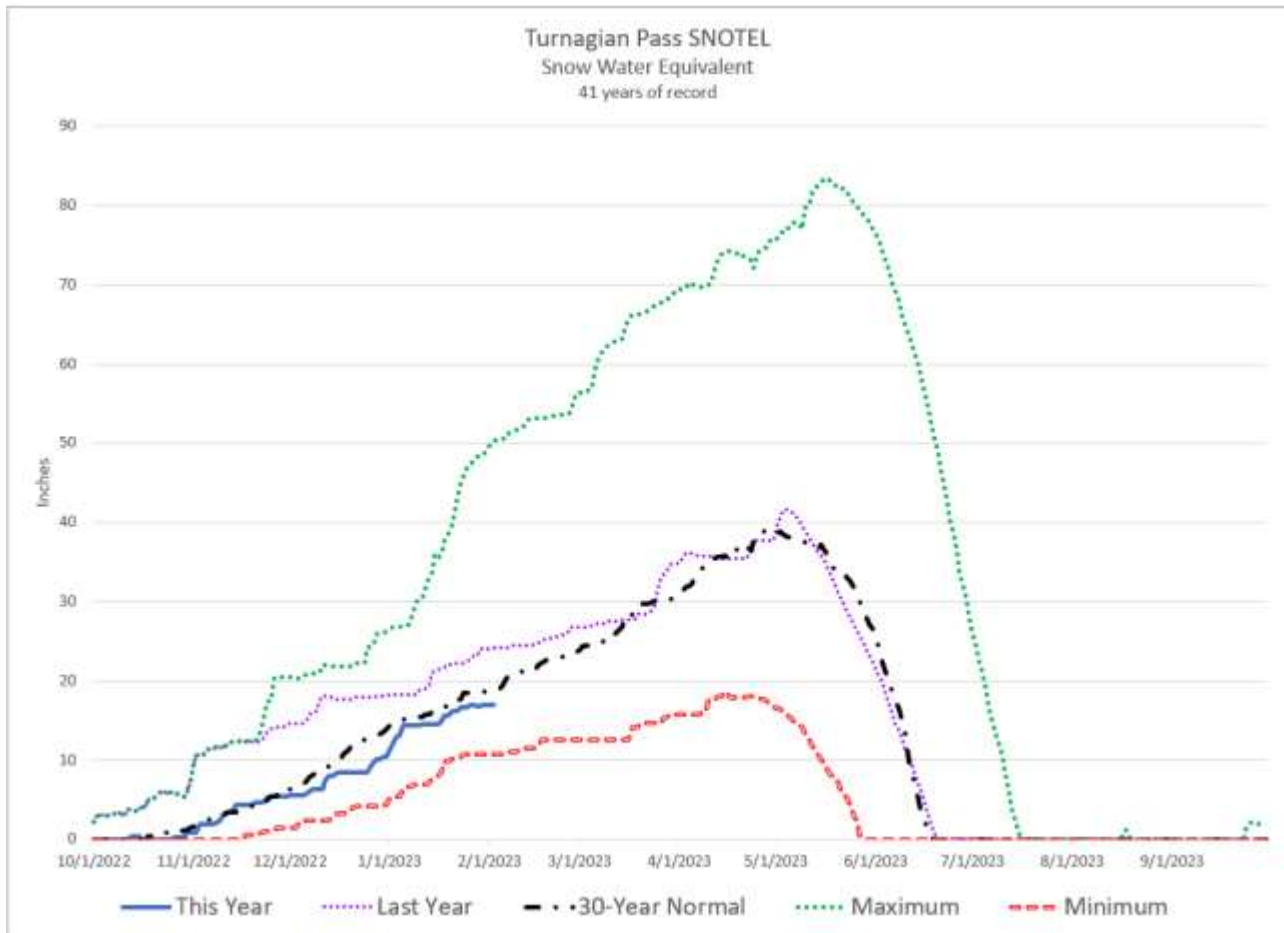
		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1991-2020 Median	Current	Last Year	1991-2020 Median
December 1st							
Anchorage Hillside	2080	14	21	---	2.9	4.7	2.1
East Palmer	230	8	4	---	---	0.5	---
Indian Pass	2350	27	43	---	5.8	11.8	5.8
Kincaid Park	250	5	10	7	1.0	0.5	0.8
Moraine	2100	15	19	---	2.0	4.9	1.4
Mt. Alyeska	1540	18	40	---	5.0	7.9	6.0
South Campbell Creek	1200	10	16	10	1.4	1.2	1.9
Spring Creek	580	9	7	---	---	---	---
January 1st							
Anchorage Hillside	2080	31	23	---	7.1	6.2	4.3
Indian Pass	2350	44	55	---	12.2	15.3	11.0
Moraine	2100	19	25	---	4.5	6.8	2.8
Mt. Alyeska	1540	29	36	---	8.3	10.3	12.8
Spring Creek	580	0	14	---	---	---	---
February 1st							
Anchorage Hillside	2080	33	35	---	7.9	8.6	5.5
Indian Pass	2350	52	67	---	15.3	19.3	13.6
Kincaid Park	250	23	14	14	5.8	2.0	3.0
Moraine	2100	23	29	---	5.0	7.6	3.9
Mt. Alyeska	1540	53	74	---	13.8	19.4	16.7
Portage Valley	50	10	43	24	1.8	13.1	8.8
South Campbell Creek	1200	28	17	19	6.6	3.8	4.2
Spring Creek	580	0	6	---	---	---	---

**Estimate*

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Anchorage Hillside	2080	10.7	11.7	9.9	108%
Indian Pass	2350	20.7	19.1	17.9	116%
Moraine	2100	7.6	11.3	7.5	101%
Mt. Alyeska	1540	26.2	38.6	29.9	88%
Spring Creek	580	6.9	6.0	---	---

Kenai Peninsula

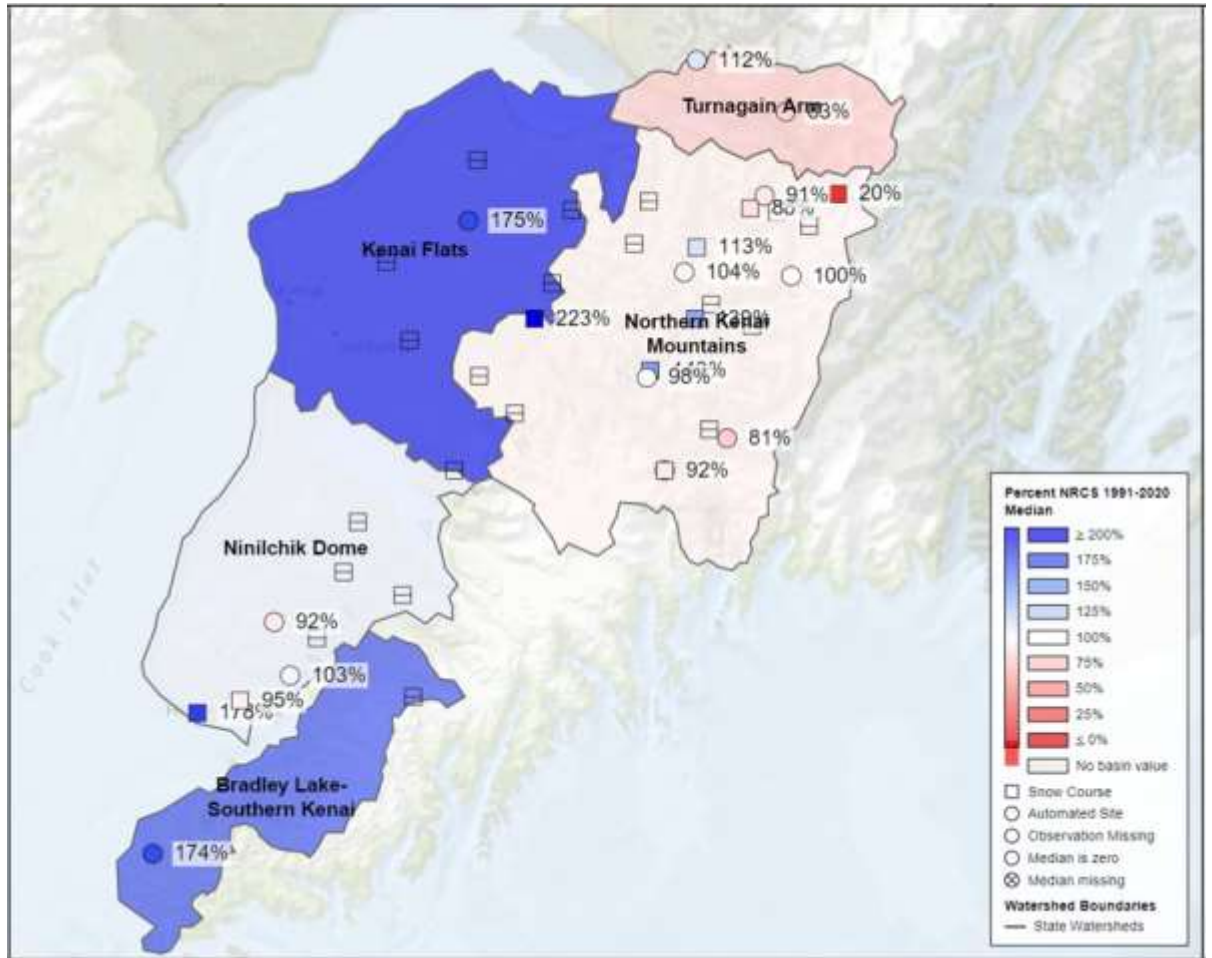


Snowpack

Snowpack on the Kenai Peninsula is mostly above normal on February 1, 2023. The western Kenai has the most substantial deviation from normal with the lower elevation snow measurements taken at Port Graham, Kenai Moose Pens and Homer Demonstration Forest reporting 175% normal snowpack for the date. In the central Kenai the SWE measurements taken at Moose Pass and Jean Lake show a snowpack that is 140% of normal. Further northeast, Turnagain Pass has SWE higher in absolute numbers, but has a below normal snowpack. On this end of the Kenai, rain soaked the lower elevations. Portage Creek snow course has 1.8" of SWE which is 20% normal, and an outlier for the region. The basin index for this region is 100% of its 1991-2020 median.

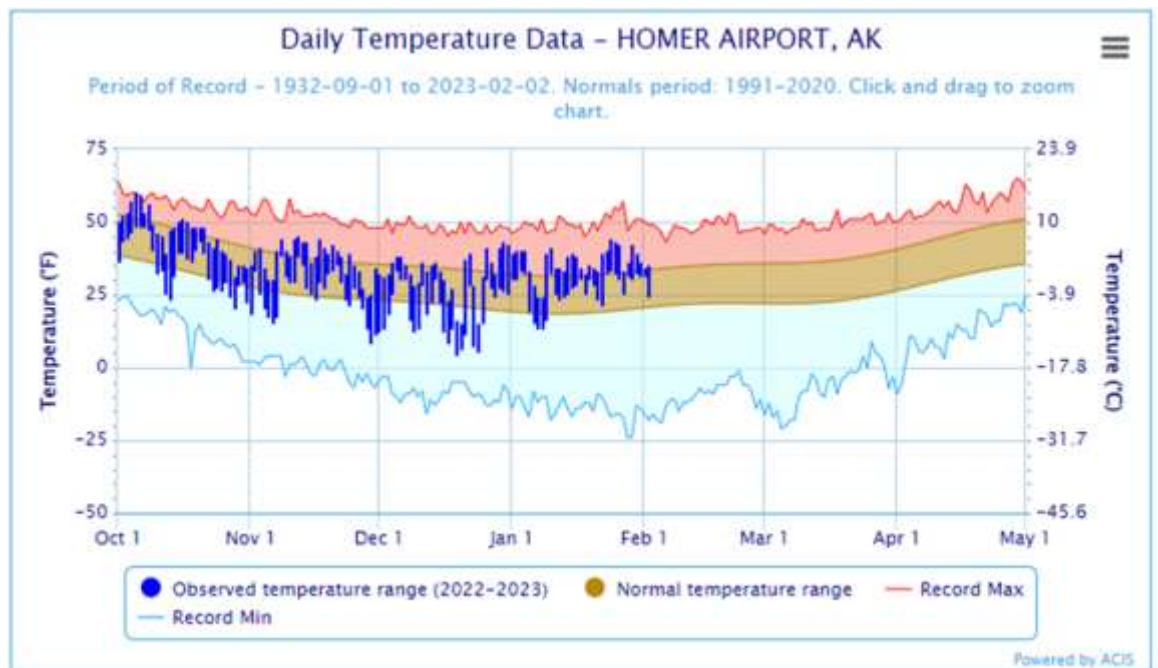
Kenai Peninsula

Snowpack Map



Temperature Chart

Source: NOAA ACIS



Kenai Peninsula

Snowpack Data

		Snow Depth			Water Content		
Site Name	Elev.	Current	Last Year	1991-2020 Median	Current	Last Year	1991-2020 Median
December 1st							
Anchor River Divide	1653	15	12	---	3.5	2.4	2.4
Bertha Creek	950	13	27	12	2.8	3.3	2.2
Bridge Creek	1300	7	18	10	1.6	2.1	1.5
Cooper Lake	1200	18	10	---	3.6	1.5	3.0
Demonstration Forest	780	7	19	8	1.8	2.1	1.1
Exit Glacier	400	16	18	11	3.7	2.7	2.1
Exit Glacier SNOTEL	400	13	---	---	3.9	2.6	---
Grandview	1100	19	42	---	4.4	6.9	4.5
Grouse Creek Divide	700	12	14	---	4.2	3.1	2.2
Jean Lake	620	8	12	8	1.0	1.5	1.0
Kenai Moose Pens	300	6	7	---	2.3	1.0	0.9
Kenai Summit	1390	16	---	17	2.8	---	3.2
Lower Kachemak Creek	1915	12	21	---	---	---	---
Mcneil Canyon	1320	8	10	---	2.2	1.5	1.6
Middle Fork Bradley	2300	16	29	---	---	---	---
Moose Pass	700	14	17	10	3.0	1.4	1.4
Mt. Alyeska	1540	18	40	---	5.0	7.9	6.0
Nuka Glacier	1250	9	14	11	3.4	1.9	3.0
Port Graham	300	4	27	---	1.2	5.0	0.7
Snug Harbor Road	500	7	8	6	1.2	1.4	1.0
Summit Creek	1400	16	12	---	3.2	3.2	2.5
Turnagain Pass	1880	25	---	---	5.6	14.7	6.3
January 1st							
Anchor River Divide	1653	28	19	---	6.7	3.8	6.0
Cooper Lake	1200	30	24	---	6.6	5.9	6.6
Exit Glacier	400	28	28	---	7.3	7.1	---
Grandview	1100	41	38	---	9.7	11.3	12.3
Grouse Creek Divide	700	23	26	---	7.2	6.8	7.8
Kenai Moose Pens	300	19	14	---	5.2	2.3	2.2
Lower Kachemak Creek	1915	26	17	---	---	---	---
Mcneil Canyon	1320	18	19	---	4.6	4.4	4.4
Middle Fork Bradley	2300	20	28	---	---	---	---
Mt. Alyeska	1540	29	36	---	8.3	10.3	12.8
Port Graham	300	14	36	---	3.9	---	2.8
Summit Creek	1400	29	24	---	6.3	5.4	5.6
Turnagain Pass	1880	49	66	---	11.4	18.3	14.4

Kenai Peninsula

Snowpack Data – continued

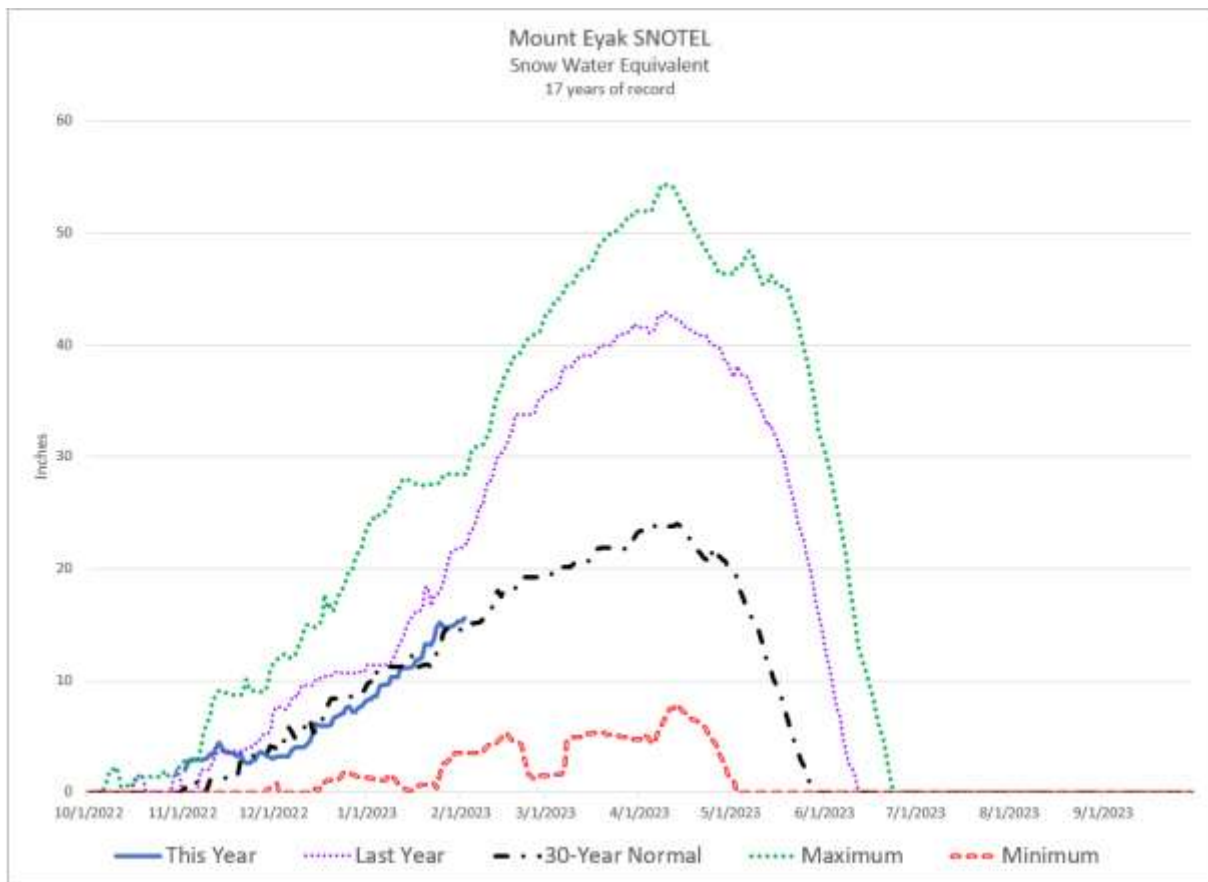
Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Median	Current	Last Year	1991-2020 Median
February 1st							
Anchor River Divide	1653	31	30	---	8.0	5.8	8.7
Bertha Creek	950	35	44	39	9.5	10.5	10.8
Bridge Creek	1300	26	36	28	6.3	8.2	6.6
Cooper Lake	1200	37	37	---	9.2	8.6	9.4
Demonstration Forest	780	23	34	19	5.7	8.9	3.2
Exit Glacier	400	38	44	37	9.2	11.0	10.0
Exit Glacier SNOTEL	400	39	40	---	10.6	12.0	---
Grandview	1100	58	61	---	16.4	15.3	16.4
Grouse Creek Divide	700	32	41	---	9.5	10.6	11.8
Jean Lake	620	19	17	12	4.9	3.9	2.2
Kenai Moose Pens	300	19	17	---	5.6	3.5	3.2
Kenai Summit	1390	39	43	37	10.4	9.4	9.2
Lower Kachemak Creek	1915	42	39	---	---	---	---
Mcneil Canyon	1320	24	28	---	6.5	7.2	6.3
Middle Fork Bradley	2300	26	38	---	---	---	---
Moose Pass	700	24	31	20	6.4	6.9	4.6
Mt. Alyeska	1540	53	74	---	13.8	19.4	16.7
Port Graham	300	21	39	---	7.3	---	4.2
Portage Valley	50	10	43	24	1.8	13.1	8.8
Snug Harbor Road	500	16	16	12	4.0	3.3	2.8
Summit Creek	1400	34	33	---	7.9	7.2	7.6
Turnagain Pass	1880	64	91	---	17.0	24.0	18.7

**Estimate*

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Anchor River Divide	1653	10.4	13.3	14.2	73%
Cooper Lake	1200	15.5	22.7	20.4	76%
Exit Glacier	400	26.2	36.2	---	---
Grandview	1100	25.5	34.1	30.6	83%
Grouse Creek Divide	700	20.5	28.3	28.2	73%
Kenai Moose Pens	300	6.7	5.8	6.4	105%
Lower Kachemak Creek	1915	18.6	25.2	---	---
Mcneil Canyon	1320	8.2	11.6	12.6	65%
Middle Fork Bradley	2300	17.5	24.1	24.6	71%
Mt. Alyeska	1540	26.2	38.6	29.9	88%
Nuka Glacier	1250	26.2	29.3	37.7	70%
Port Graham	300	27.2	---	35.3	77%
Summit Creek	1400	11.3	14.0	12.8	88%
Turnagain Pass	1880	23.0	30.8	27.0	85%

Western Gulf – Prince William Sound

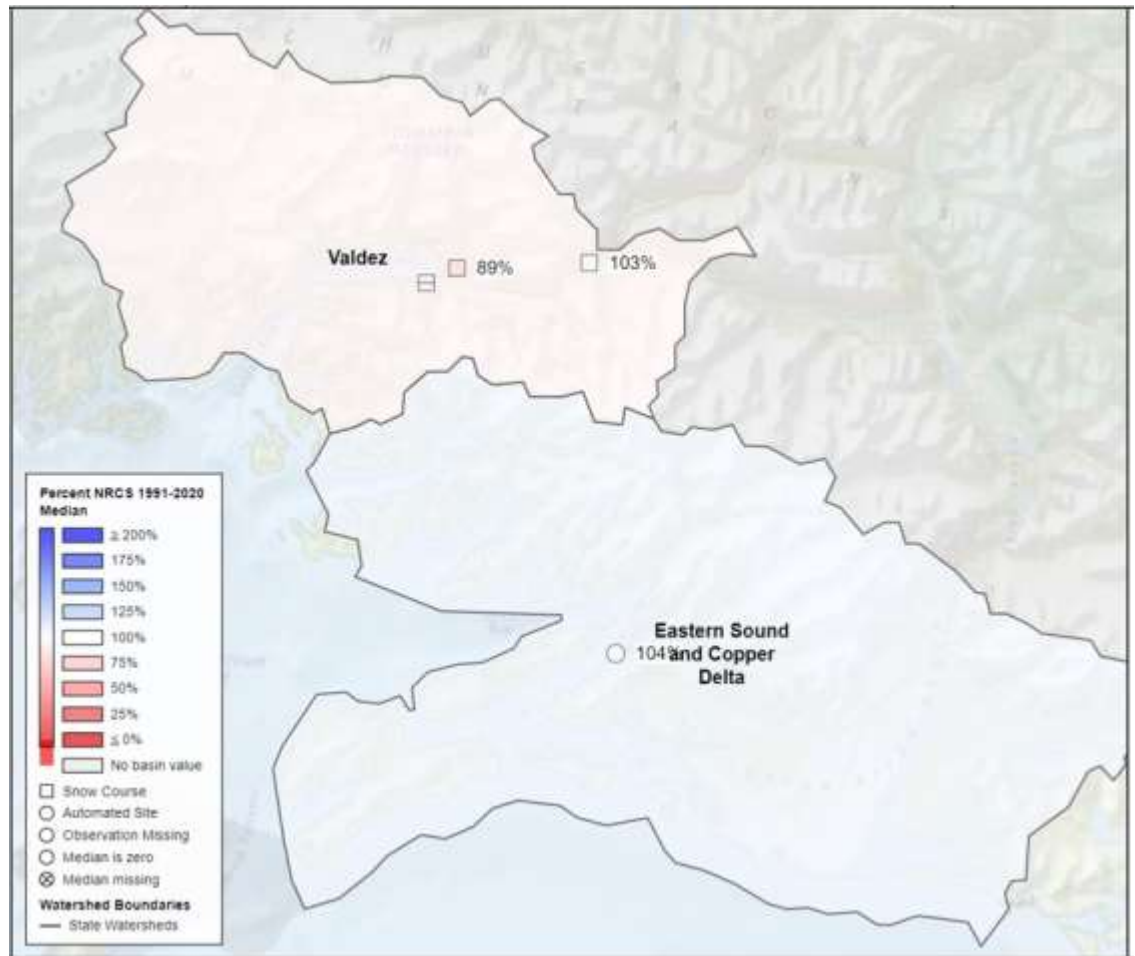


Snowpack

The snowpack of the Western Gulf is slightly below normal on February 1, 2023. On the Eastern side, Mt. Eyak, near Cordova, shows a snowpack that is slightly above normal. At the western end, Exit Glacier and Grouse Creek Divide, near Seward show a below normal snowpack. And in the middle, the Valdez snow course at 50' ASL was measured with a snowpack below normal, while Lowe River, at 600' ASL, was measured slightly above normal.

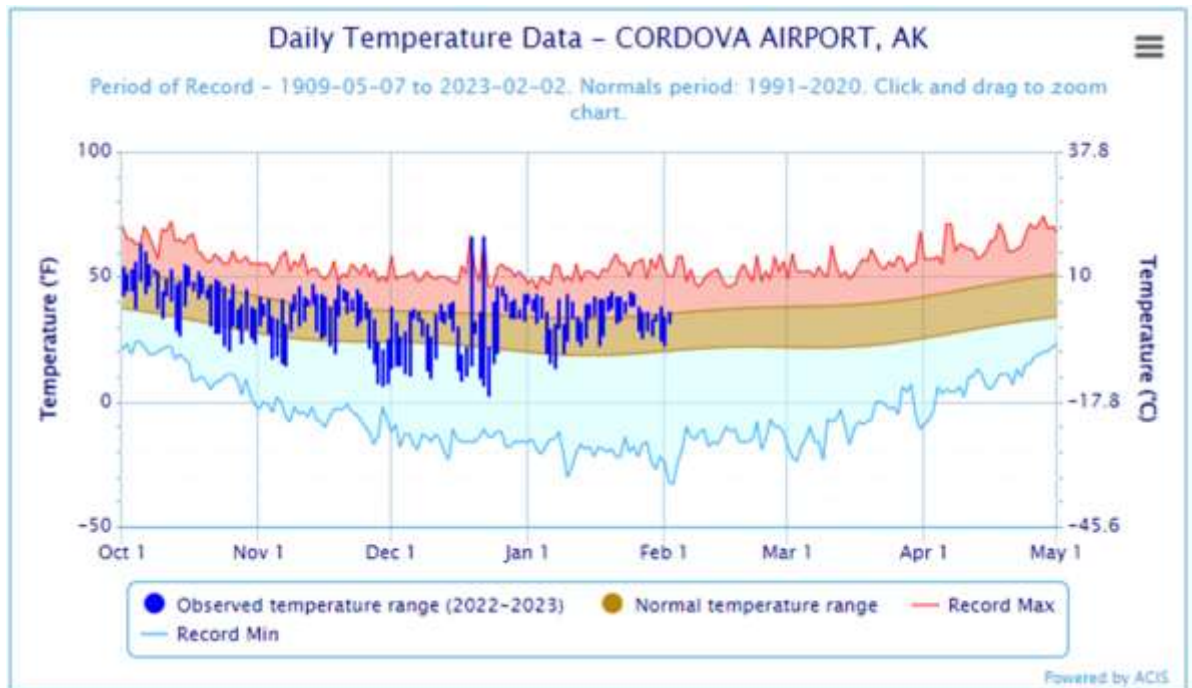
Western Gulf – Prince William Sound

Snowpack Map



Temperature Chart

Source: NOAA ACIS



Western Gulf — Prince William Sound

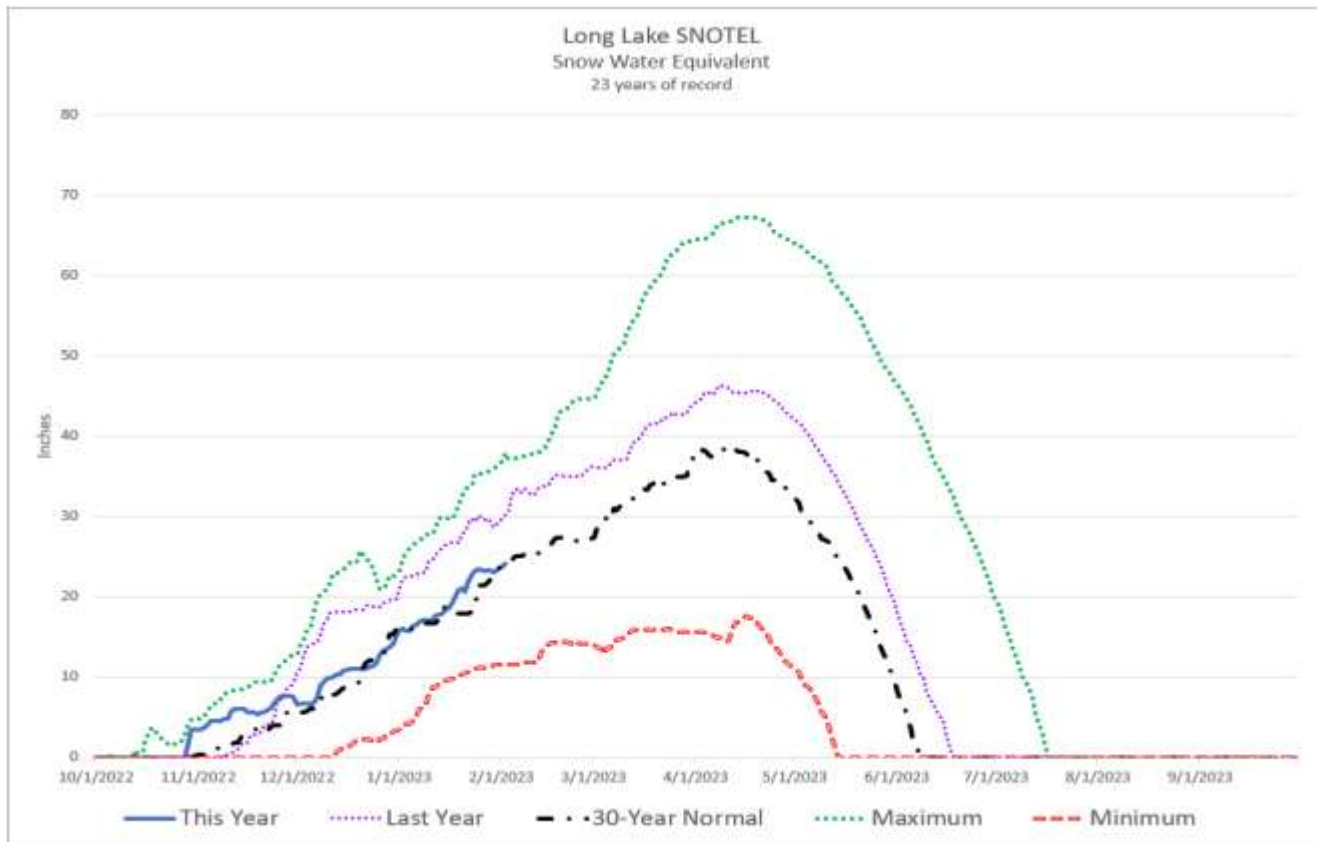
Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Normal	Current	Last Year	1991-2020 Normal
December 1st							
Esther Island	50	7	36	---	---	---	---
Exit Glacier	400	16	18	11	3.7	2.7	2.1
Exit Glacier (SNOTEL)	400	13	---	---	3.9	2.6	---
Grouse Creek Divide	700	12	14	---	4.2	3.1	2.2
Mt. Eyak	1405	10	36	---	3.0	7.1	4.0
Nicks Valley	4280	43	49	---	---	---	---
Nuka Glacier	1250	9	14	11	3.4	1.9	3.0
Nuka Glacier (SNOTEL)	1250	11	14	---	---	---	---
Sugarloaf Mountain	550	17	22	---	5.0	2.4	---
Sugarloaf Mtn (SNOTEL)	550	15	15	---	---	---	---
Upper Tsaina River	1750	23	18	---	5.9	3.4	5.3
January 1st							
Esther Island	50	18	38	---	---	---	---
Exit Glacier (SNOTEL)	400	28	28	---	7.3	7.1	---
Grouse Creek Divide	700	23	26	---	7.2	6.8	7.8
Mt. Eyak	1405	24	51	---	8.3	11.4	9.7
Nicks Valley	4280	57	44	---	---	---	---
Nuka Glacier (SNOTEL)	1250	29	14	---	---	---	---
Sugarloaf Mtn (SNOTEL)	550	40	24	---	---	---	---
Upper Tsaina River	1750	44	23	---	9.5	5.3	9.6
February 1st							
Esther Island	50	19	32	---	---	---	---
Exit Glacier	400	38	44	37	9.2	11.0	10.0
Exit Glacier (SNOTEL)	400	39	40	---	10.6	12.0	---
Grouse Creek Divide	700	32	41	---	9.5	10.6	11.8
Lowe River	600	40	28	44	11.0	7.1	10.7
Mt. Eyak	1405	39	63	---	15.3	21.8	14.7
Nicks Valley	4280	71	81	---	---	---	---
Nuka Glacier (SNOTEL)	1250	56	44	---	---	---	---
Sugarloaf Mtn (SNOTEL)	550	45	51	---	---	---	---
Tsaina River	1650	52	43	48	14.0	9.6	10.8
Upper Tsaina River	1750	52	40	---	13.8	8.8	13.5
Valdez	50	33	32	42	9.2	9.0	10.3
Worthington Glacier	2100	59	54	62	17.0	13.7	17.1
*Estimate							

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st			
		This Year	Last Year	1991-2020 Normal	% of Normal
Esther Island	50	58.2	71.6	66.2	88%
Exit Glacier	400	26.2	36.2		---
Grouse Creek Divide	700	20.5	28.3	28.2	73%
Mt. Eyak	1405	60.3	47.8	54.8	110%
Nuchek	50	31.9	65.6	---	---
Port San Juan	50	53.3	52.8	---	---
Seal Island	20	25.8	28.3	---	---
Strawberry Reef	30	37.2	32.4	---	---
Sugarloaf Mtn	550	34.3	24.7	33.8	101%
Tatitlek	50	39.0	28.9	---	---
Upper Tsaina River	1750	21.1	10.5	18.8	112%

Southeast

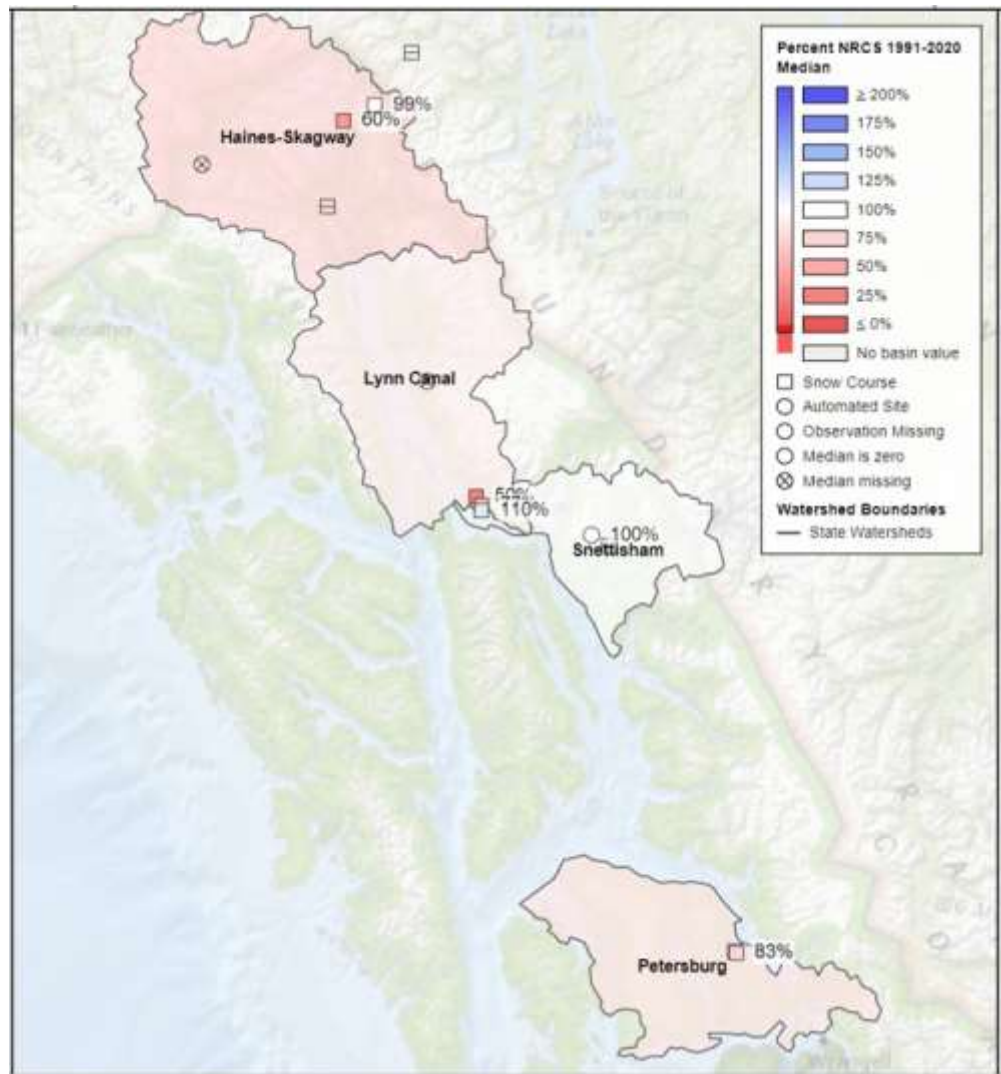


Snowpack

The snowpack in Southeast Alaska is below normal on February 1, 2023. Precipitation has been above normal for the year and there is an elevational gradation indicating mostly rain being recorded at low elevation. On Douglas Island, near Juneau, the Fish Creek snow course at 500' ASL was measured at 50% normal, whereas Cropley Lake, at 1650' ASL measured 110%. Near Skagway, West Creek at 475' ASL, was measured with 60% normal SWE for the date, and Moore Creek Bridge, at 2250' ASL, was measured at 99% normal. The 23.8" of SWE being reported at Long Lake is the statistical median in 24 years of observation. The dearth of monitoring stations in a region the size of Southeast Alaska makes general statements about the state of the snowpack difficult. NRCS has been increasing our presence in the region and this year added an additional site at Mount Ripinsky, at 2,540' ASL near Haines. The snow depth reported at this site on February 1 was 90".

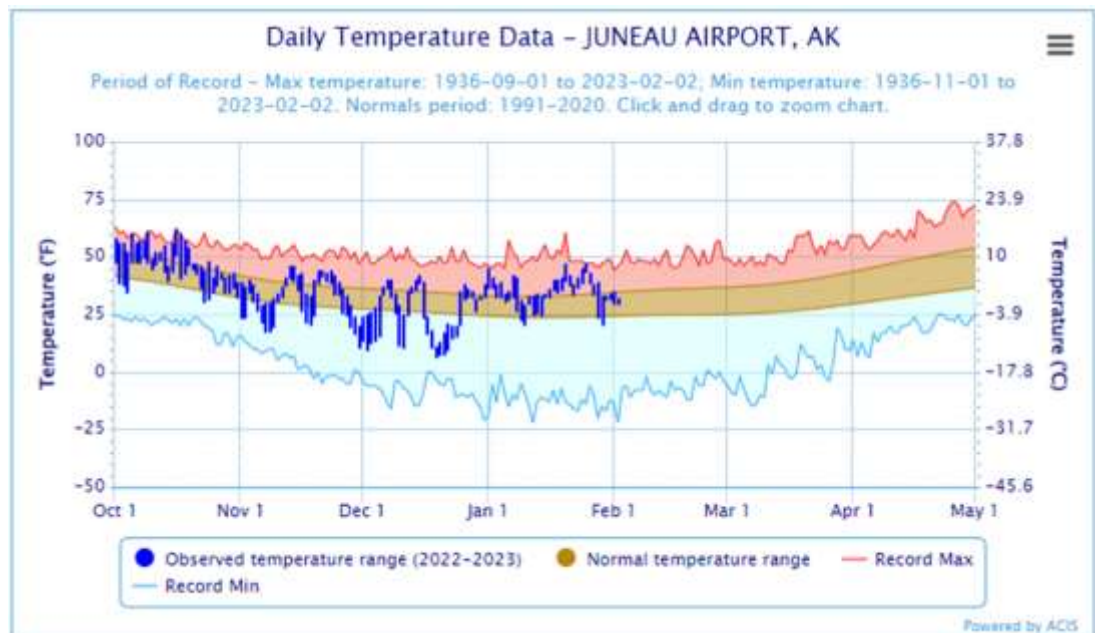
Southeast

Snowpack Map



Temperature Data

Source: NOAA ACIS



Southeast

Snowpack Data

Site Name	Elev.	Snow Depth			Water Content		
		Current	Last Year	1991-2020 Median	Current	Last Year	1991-2020 Median
December 1st							
Flower Mountain	2510	29	46	---	6.7	10.4	---
Heen Latinee	2065	14	40	---	4.5	8.8	---
Long Lake	850	19	50	---	6.6	10.4	5.7
Moore Creek Bridge	2250	20	18	21	4.6	1.7	4.2
Moore Creek Bridge	2250	18	16	---	---	---	---
Mount Ripinsky	2500	48	---	---	---	---	---
Petersburg Reservoir	550	4	14	0	0.5	3.6	0.0
Petersburg Ridge, S.	1650	21	36	15	4.2	10.1	3.2
West Creek	475	6	24	---	1.2	3.7	---
January 1st							
Flower Mountain	2510	39	48	---	9.5	12.6	---
Heen Latinee	2065	35	55	---	8.9	13.0	---
Long Lake	850	57	78	---	15.9	20.8	16.0
Moore Creek Bridge	2250	35	35	---	---	---	---
Mount Ripinsky	2500	71	---	---	---	---	---
February 1st							
Cropley Lake	1650	52	78	53	18.4	27.3	16.7
Eagle Crest	1200	27	48	34	7.9	15.2	10.2
Fish Creek	500	3	22	10	1.0	5.5	2.0
Flower Mountain	2510	53	72	---	15.8	18.4	---
Heen Latinee	2065	38	59	---	11.4	19.7	---
Long Lake	850	64	83	---	23.8	29.6	23.9
Moore Creek Bridge	2250	44	64	52	13.5	18.5	13.6
Moore Creek Bridge	2250	39	64	---	---	---	---
Mount Ripinsky	2500	90	---	---	---	---	---
Petersburg Reservoir	550	10	29	18	2.5	11.5	3.0
Petersburg Ridge, S.	1650	42	75	47	14.1	24.5	15.5
West Creek	475	18	29	27	5.1	8.5	8.5

Precipitation Data

Site Name	Elev.	Inches Accumulated since October 1st (as of February 1, 2022)			
		This Year	Last Year	1991-2020 Normal	% of Normal
Long Lake	850	87.0	77.7	75.3	116%
Moore Creek Bridge	2250	23.1	16.9	20.6	112%

For further information contact:

NRCS Alaska web site: <https://www.nrcs.usda.gov/wps/portal/nrcs/ak/snow/>

NRCS Water and Climate Center web site: <https://www.nrcs.usda.gov/wps/portal/wcc/home/>

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