Alaska Snow Survey Report

Feb. 1, 2013

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- Ministry of the Environment
  - British Columbia
- Department of the Environment
  - Government of the Yukon

United States Department of Agriculture
Natural Resources Conservation Service

Alaska Snow Survey
February 1, 2013

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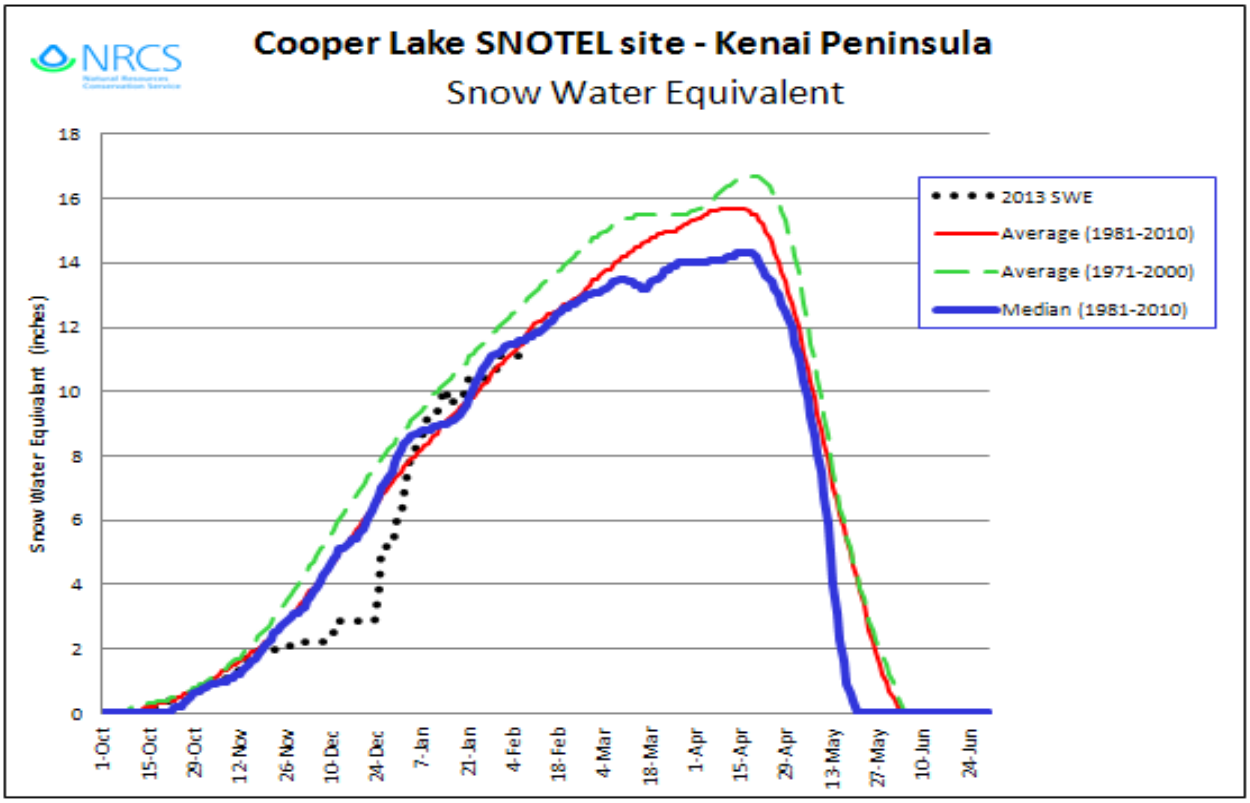
New 30 Year Normals Introduced



Beginning January 2013, new 30 year normals have been used to describe snowpack hydrologic data data. The World Meteorological Organization (WMO) established a 30-year reference period since it is long enough to filter out year-to-year variation, but also short enough to show climatic trends. Starting this year, all percent of normal values will be calculated using the 1981-2010 period instead of the 1971-2000 period.

Also, for the first time, normals for Snow Water Equivalent will be based on the median value instead of the average. The median is determined by ranking the years from highest to lowest and then identifying the middle year. Using the median instead of the average better filters out the effects of a few anomalous years which can skew the data. This is especially evident at the very beginning and end of the season.

The graph above demonstrates these differences. Midseason, the average is greater than the median illustrating the effects of a couple of large snow years on the average. Also, during melt out, the median "zeros" after a little more than half of the years have melted out. The average appears to have a tail, which is due again to lingering snow conditions of a few large years.

Data users should be careful when comparing new "percent of normal" values to prior years since in most case the values for the normals have change. See above, Cooper Lake's SWE value for January 10th would be considered below normals using the old normals, but is now considered above normal using the new normal values.

GENERAL OVERVIEW

Snowpack

The seasonal snowpack had an early start this year in the Arctic with the season snowpack starting at the Atigun Pass SNOTEL site on September 5 and the Imnaviat Creek SNOTEL site on October 9. Most of the state started its snowpack near normal with the following SNOTEL sites receiving their first permanent snow as follows: Kantishna and Upper Nome Creek, October 8th; Upper Tsaina on October 13th; on October 15th, Fort Yukon, Tokositna Valley, Turnagain Pass, and Mount Eyak. In the southeast, Long Lake's snowpack started on October 17th. Anchorage Hillside waited until October 28th and Weary Lake, a new SNOTEL site 20 miles west of Dillingham, started its snowpack on November 14th. The Koyukuk Basin's snowpack began very late with Coldfoot SNOTEL having no measurable snow until December 12th.

The snowpack across the state continues to be variable. The Koyukuk Basin's snow pack is the lightest in the state; it was at a record low January 1st, and still is under 50% of normal. The rest of the northern Interior has more snow than the Koyukuk, but is still below normal. This trend continues west to the Seward Peninsula and Norton Sound. Other below normal areas are eastern Bristol Bay, lower Susitna Basin and northern Cook Inlet where December rains decimated low lying snows. Areas near normal include the North Slope, the southern half of the Interior extending to the Y-K Delta, and the Kenai Peninsula. The upper Tanana Valley near Tok is above normal and Southeast is much above normal though only half of last year's record setting snowpack.

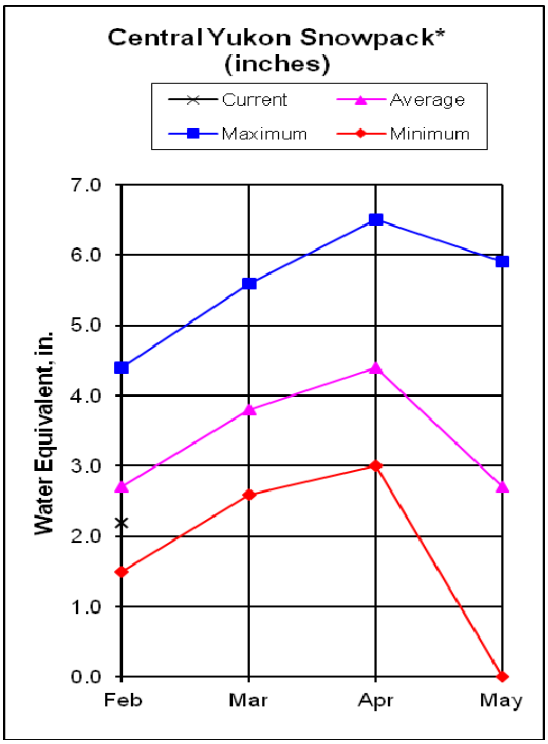
Precipitation

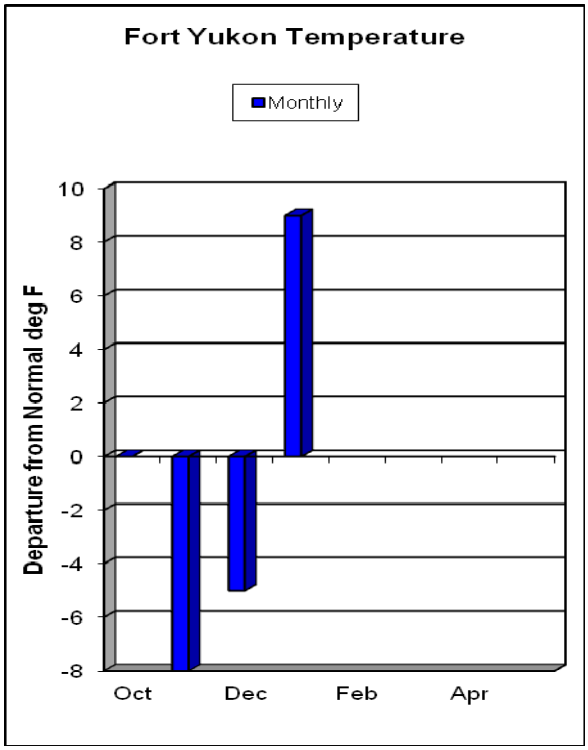
The water year started slowly with all areas of the state receiving normal or below normal precipitation in October except the North Slope and the Upper Tanana Valley. By December 1st the only area of the state which was not below normal was the Y-K Delta where Bethel which had received 133% of normal precipitation. The Southern Kenai Peninsula received only 29% of normal precipitation. During December the Tanana Valley and the Y-K Delta received above normal precipitation. During this time Fairbanks Field Office SNOTEL site received 1.2 inches of precipitation, 150% of normal, while Bettles only receive 0.3 inches, 27% of normal. Many parts of the state received above normal precipitation during January; Nome received 1.24 inches, 137% of normal, Juneau received 7.59 inches, 167% on normal; Homer had 4.33 inches, 180% of normal. However, all this January precipitation was not enough to bring most basins back up to normal water year accumulation.

Temperature

During October, most of Alaska was at or below normal temperatures, except for the Seward Peninsula and the Arctic. The North Slope has been the only part of the state to remain warmer than normal all winter as indicated by Barrow which was 14 degrees warmer than normal in October, 7 degrees warmer in November, 2 degrees warmer in December and 5 degrees warmer than normal in January. The rest of the state remained below normal through November and December except for the Susitna Basin. During January the whole state warmed up and was above normal. Fairbanks went from 10 below normal in December to 9 above normal in January.

CENTRAL YUKON BASIN*





Current Basin Conditions

The Central Yukon Basin snow pack is below normal. This is represented on the eastern side with Hess Creek which has 18 inches of snow and 3.2 inches of water content, 89% of normal.

The four measured snow courses on the north side of the White Mountains, average 92% of normal. These range from 74% at Fossil Snow Course to 103% of Normal at Wolf Snow Course. The Upper Nome SNOTEL, in the headwaters of Beaver Creek, has 20 inches of snow and has caught 4.0 inches of precipitation since October 1st, or 108% of normal.

The American Creek SNOTEL site, just outside Eagle, AK, has 18 inches of snow with 2.5 inches of water content. The Fort Yukon SNOTEL site has 12 inches of snow and its precipitation gauge has captured 2.1 inches of precipitation since October 1st, 77% of normal. Likewise, the Eagle Summit SNOTEL site has caught 3.3 inches or 85% of normal.

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

Central Yukon Basin

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR Snow Depth	THIS YEAR Water Content	LAST YEAR Snow Depth	LAST YEAR Water Content	1981-2010 AVERAGE Snow Depth	1981-2010 AVERAGE Water Content
	(feet)		(inches)					
December								
American Creek SNOTEL	1050	12/01/12	7	0.7	5	0.6	---	---
Cathedral Creek	1800	11/29/12	15	1.7	14	1.6	---	---
Coal Creek	1000	No Survey					---	---
Copper Creek	2000	11/29/12	17	2.0	10	1.1	---	---
Cresent Creek	2600	11/28/12	11	1.3	7	0.9	---	---
Fort Yukon SNOTEL	430	12/01/12	3	0.4*	6	1.1	---	---
Hess Creek	1000	No Survey	---	---	13	2.1	---	---
Seven Mile	600	No Survey	---	---	12	2.2	---	---
Step Mountain	2850	11/29/12	17	2.1	14	1.6	---	---
Thirty Mile	1350	No Survey	---	---	17	3.1	---	---
Three Fingers	3350	11/29/12	15	1.7	17	2.0	---	---
Upper Nome Creek SNOTEL	2650	12/01/12	5	0.8*	10	1.6	---	---
January								
Fort Yukon SNOTEL	430	1/01/13	6	1.1*	17	2.0	---	---
Upper Nome Creek SNOTEL	2650	1/01/13	13	2.1*	19	3.1	---	---
February								
Borealis	1330	1/24/13	18	3.0	24	4.1	19	3.1
Cathedral Creek	1800	No Survey	---	---	---	---	---	---
Coal Creek	1000	No Survey	---	---	---	---	---	---
Copper Creek	2000	No Survey	---	---	---	---	---	---
Cresent Creek	2600	No Survey	---	---	---	---	---	---
Fort Yukon SNOTEL	430	2/01/13	12	1.7*	18	2.3*	18	2.8
Fossil	1400	1/24/13	16	2.6			18	3.5
Hess Creek	1000	1/30/13	18	3.2	24	5.5	2.1	3.6
Mission Creek	900	No Survey	---	---	---	---	---	---
Seven Mile	600	1/30/13	20	3.0	24	5.2	22	3.8
Step Mountain	2850	No Survey	---	---	---	---	---	---
Tacoma Bluff	1450	No Survey	---	---	---	---	---	---
Thirty Mile	1350	1/30/13	18	3.0	26	6.0	30	5.8
Three Fingers	3350	No Survey	---	---	---	---	---	---
Upper Nome Creek SNOTEL	2650	2/01/13	20	3.2*	19	3.5*	---	---
Windy Gap	1900	1/24/13	19	3.5	---	---	19	3.7
Wolf	1200	1/24/13	19	3.1	---	---	18	3.0

*estimate

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1st

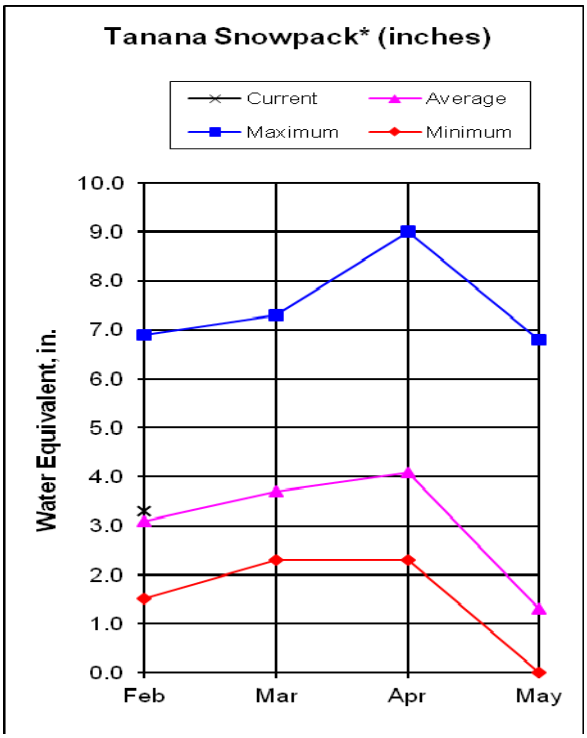
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Normal	% of Normal
American Creek	1050	1/31/12	2.8	2.0	---	---
Atigun Pass**	4800	1/31/12	2.5	4.7	3.9	64
Chandalar Shelf**	3300	1/31/12	2.5	4.0	---	---
Eagle Summit**	3650	1/31/12	3.3	3.0	3.9	85
Fort Yukon	430	1/31/12	2.1	2.1	2.6	81
Upper Nome Creek	2650	1/31/12	4.0	4.6	3.7	108

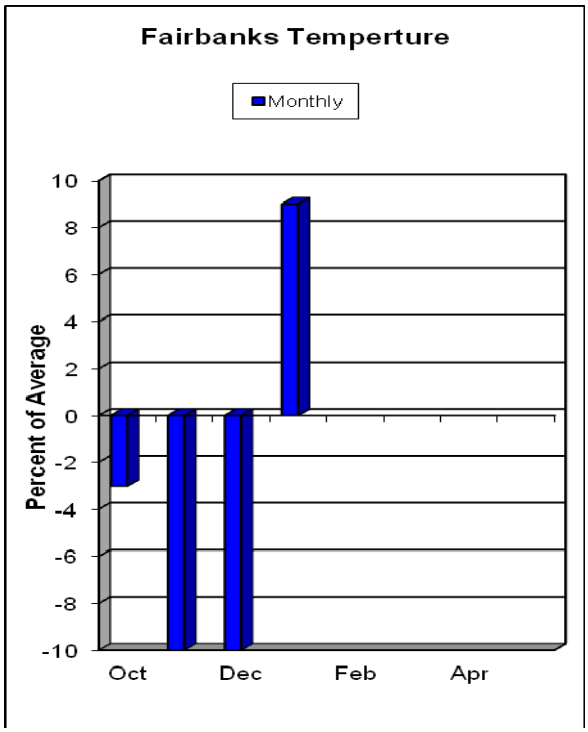
**Wyoming shielded gauge

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Yukon Flats	2	58	84
White Mountains	4	73	92

TANANA BASIN*





Current Basin Conditions

The upper Tanana Valley had five snow courses measured and averaged 120% of normal. The courses varied from 71% of normal at Chisana SNOTEL site to 142% of normal at Paradise Hill. This is the second highest Paradise Hill has been measured in February since its beginning in 1993, with the record being measured in 2005.

The snowpack lightens slightly down valley. The five Delta area snow courses average 112% of normal, ranging from 82% at Granite Creek to 135% at Fielding Lake. The rest of the lower Tanana Valley maintains an above normal snowpack, but not by much. On the south side of the valley the Kantishna SNOTEL site has 20 inches of snow with an estimated 3.5 inches of water content or 109% of normal, while on the north side of the valley the Chatanika and Chena Basin averaged 102% and 109%, respectively.

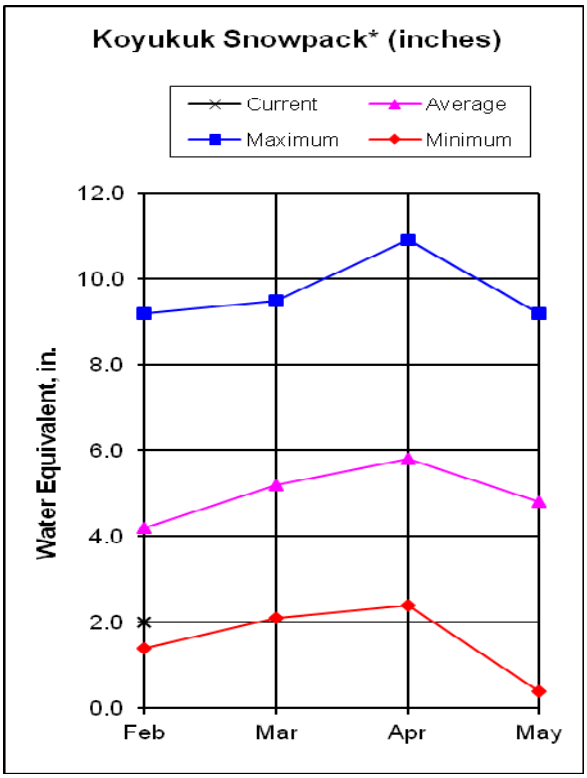
* For further information contact the Natural Resources Conservation Service in Fairbanks or Delta Junction.

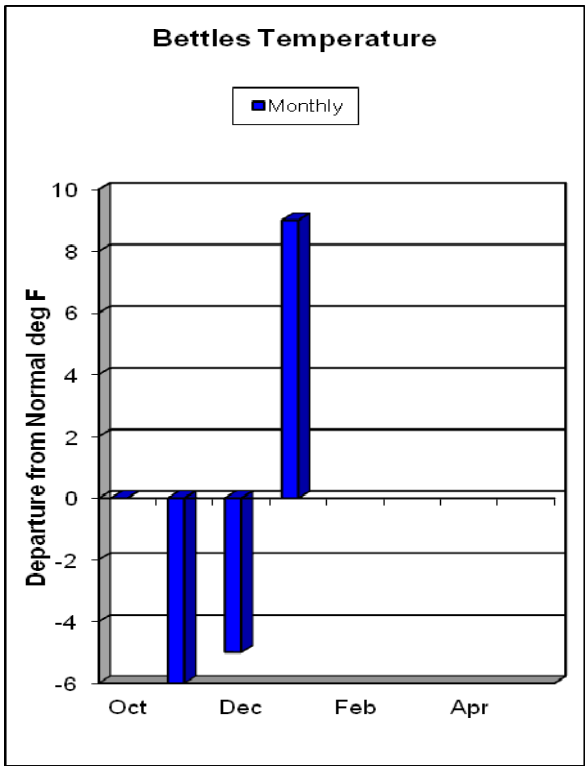
Tanana Basin

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Bonanza Creek	1150	11/30/12	11	1.2	---	---	---	---
Caribou Creek	1250	11/27/12	6	0.7	---	---	12	1.6
Caribou Snow Pillow	900	11/27/12	5	0.7	---	---	12	1.6
Cleary Summit	2230	12/03/12	10	1.2	12	1.6	---	---
Colorado Creek	700	12/02/12	8	0.9	13	1.4	---	---
Fairbanks FO	450	12/01/12	6	0.7	9	1.0	---	1.4
Faith Creek	1900	12/03/12	7	0.9	---	---	8	1.5
Fort Greely	1500	11/30/12	10	1.3	9	1.0	10	1.3
French Creek	1800	12/03/12	10	1.3	12	2.0	16	2.6
Gerstle River	1200	11/30/12	10	1.1	8	1.0	11	1.6
Granite Creek	1240	12/01/12	7	1.3	7	1.1	---	1.6
Jatahmund Lake	2180	11/28/12	11	1.1	12	1.4	10	1.3
Kantishna	1550	12/01/12	9	1.0*	12	2.1*	---	---
Lost Creek	3030	11/27/12	5	0.5*	---	---	---	---
Paradise Hill	2200	11/29/12	8	0.8	9	1.1	10	1.3
Shaw Creek Flats	980	12/03/12	6	0.7	6	0.7	10	1.2
January								
Chisana	3320	1/01/13	10	1.8	14	2.1	---	2.2
Granite Creek	1240	1/01/13	10	1.8	17	3.0	---	2.2
Kantishna	1550	1/01/12	16	2.9*	17	3.8*	---	---
Little Chena Ridge	2000	1/01/13	12	2.5	10	2.0	---	3.1
Monument Creek	1850	1/01/13	11	2.3	13	2.2	---	2.5
Mt. Ryan	2800	1/01/13	14	2.7	19	3.0	---	2.7
Munson Ridge	3100	1/01/13	19	4.0	23	4.9	---	4.1
Teuchet Creek	1640	1/01/13	11	1.7*	11	1.8	---	2.1
Upper Chena Pillow	2850	1/01/13	19	2.9*	19	3.5	---	3.4
February								
Bonanza Creek	1150	1/31/13	23	4.0	22	4.3	18	3.4
Caribou Creek	1250	1/29/13	18	3.2	19	3.3	16	2.7
Caribou Snow Pillow	900	1/29/13	17	2.5	19	3.3	17	2.9
Chisana	3320	2/01/13	14	2.4	15	2.7	---	3.4
Edgar Creek	2400	No Survey					22	4.0
Fielding Lake	3000	1/31/13	41	8.9	47	10.5	32	6.6
Fort Greely	1500	1/30/13	13	2.2	19	3.1	14	2.4
French Creek	1800	2/01/13	26	3.8	26	4.6	19	3.9
Gerstle River	1200	1/30/13	14	2.2	19	2.8	16	2.4
Gold King	1700	No Survey					18	2.8
Granite Creek	1240	2/01/13	13	2.5	20	4.3	---	2.5
Jatahmund Lake	2180	2/05/13	17	2.8	15	2.4	14	2.1
Kantishna	1550	2/01/13	20	3.5	21	4.2*	20	3.2
Lake Minchumina	730	No Survey					15	2.1
Little Chena Ridge	2000	2/01/13	15	3.4	12	2.6	---	3.4
Lost Creek	3030	1/28/13	16	2.4	13	3.0	---	---
Mentasta Pass	2430	1/31/13	29	5.2	29	6.4	22	4.0
Monument Creek	1850	2/01/13	18	3.7	15	3.0	---	3.1
Mt. Ryan	2800	2/01/13	20	3.7	21	3.7	---	3.6
Munson Ridge	3100	2/01/13	29	6.2	26	5.6	---	5.0
Paradise Hill	2200	1/31/13	20	3.4	14	2.6	15	2.4
Ptarmigan Airstrip	2400	No Survey	---	---			17	2.7
Rock Creek Bottom	2250	No Survey	---	---	21	3.3	14	2.9
Rock Creek Ridge	2600	No Survey	---	---	24	3.8	14	2.8
Shaw Creek Flats	980	2/01/13	19	2.5	14	2.2	13	2.0
Teuchet Creek	1640	2/01/13	20	2.9*	15	2.2	---	2.8
Tok Junction	1650	1/31/13	22	3.3	24	3.7	17	2.6
Upper Chena Pillow	2850	2/01/13	29	4.6*	23	4.1*	---	4.1
Upper Wood River	2990	No Survey	---	---	---	---	18	3.4

WESTERN INTERIOR BASINS





Current Basin Conditions

Koyukuk

The Koyukuk Basin is the driest region of the state this winter. Winter started cold, but dry. By January 1st, both Bettles and Coldfoot SNOTEL sites were at record lows with records starting in 1981 and 1996, respectively.

January brought some snow to the basin, but not enough to bring the basin average above 50% of normal. Both Bettles and Coldfoot SNOTEL had February measurements of 1.8 inches of snow water content, around 43% of normal for both sites. This is Bettles third lowest reading and Coldfoot's second lowest reading in their history.

Some parts of the basin received more snow than others due to localized snow storms. Nolitna Aerial Marker had 20 inches of snow with an estimated 3.1 inches of water content. Three other years in Nolitna's 13 year record had less snow.

Kuskokwim

The Aniak SCAN site, located on the KNA Aniak Farm, has 21 inches of snow, with an estimated 4.8 inches of water content, which is above normal. The National Weather Service site at the McGrath Airport measured 39 inches of snow with only three other years having more snow since 1980.

Lower Yukon

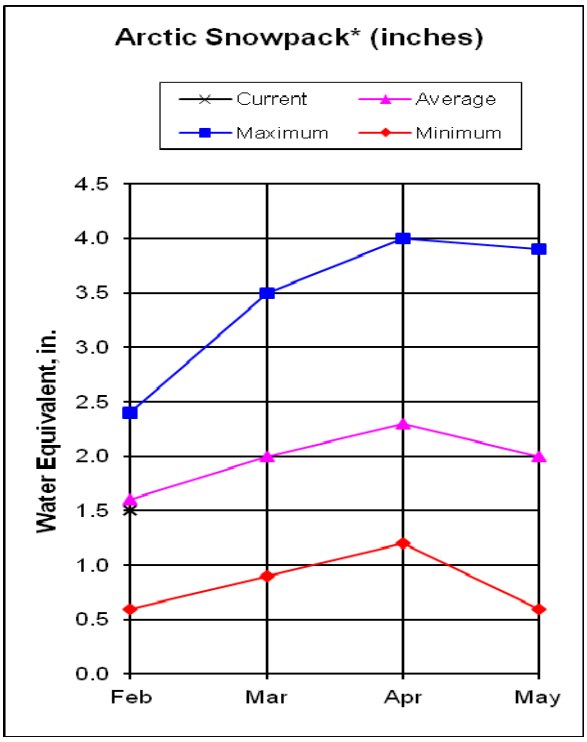
The snow courses in the Nowitna National Wildlife Rufuge were measured. This area is characterized by the Lower Nowitna River Snow Course which had 19 inches of snow with an estimated 3.1 inches of water content.

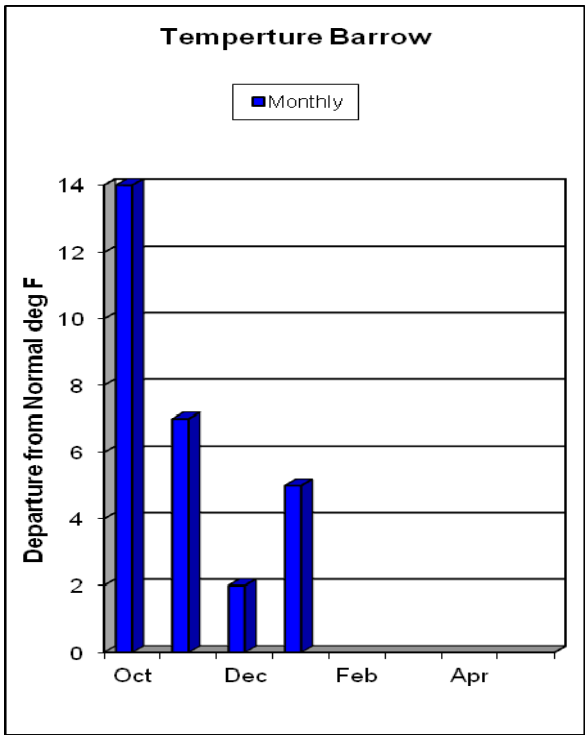
Western Interior Basins

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Koyukuk								
Bettles Field	640	12/01/12	0	0.0	13	1.4	---	1.9
Bonanza Forks	1200	No Survey	---	---	16	2.6	---	---
Cloverleaf	170	11/30/12	3	0.3	15	2.1	---	---
Coldfoot	1040	12/01/12	0	0.0	13	1.8	---	2.1
Colville Bend	170	11/30/12	2	0.2	15	2.1	---	---
Disaster Creek	1550	No Survey	---	---	13	2.1	---	---
Huggins Creek	290	11/29/12	3	0.3	17	2.3	---	---
Kaldoyeit	750	No Survey	---	---	---	---	---	---
Kanuti Chalatna	670	11/28/12	4	0.5	---	---	---	---
Kanuti Kilolitna	550	11/28/12	2	0.2	---	---	---	---
Minnkokut	580	11/29/12	3	0.3	---	---	---	---
Nolitna	560	11/28/12	7	0.8	---	---	---	---
Table Mountain	2200	No Survey	---	---	15	2.3	---	---
Treat Island	190	11/30/12	0	0.0	12	1.7	---	---
Lower Yukon								
Deer Creek	195	12/03/12	7	0.8	15	2.1	---	---
Little Mud River	855	12/03/12	7	0.8	15	2.1	---	---
Lower Nowitna	205	12/03/12	5	0.5	6	0.8	---	---
Nine Mile Island	140	12/03/12	5	0.5	18	2.5	---	---
Pike Trap Lake	130	12/03/12	3	0.3	8	1.0	---	---
Squirrel Creek	150	12/03/12	10	1.2	21	3.0	---	---
January								
Kuskokwim								
Telaquana Lake	1550	1/01/13	13	2.6	26	2.8	---	---
February								
Koyukuk								
Bonanza Forks	1200	1/30/13	14	1.8	29	6.3	21	3.8
Cloverleaf	170	1/31/13	8	1.1	31	5.6	---	---
Coldfoot	1040	2/01/13	11	1.8	29	6.2	---	4.2
Colville Bend	170	1/31/13	20	3.2	31	5.9	---	---
Disaster Creek	1550	1/31/13	12	1.4	23	4.8	17	2.5
Huggins Creek	290	2/01/13	18	2.8	---	---	19	3.5
JR Slough	750	1/31/13	27	4.6	36	6.2	---	---
Kaldoyeit	750	2/04/13	21	3.4	33	6.0	---	---
Kanuti Chalatna	670	2/04/13	18	2.6	31	5.7	---	---
Kanuti Kilolitna	550	2/04/13	13	1.5	24	4.8	---	---
Minnkokut	580	2/04/13	17	2.4	36	6.5	---	---
Nolitna	560	2/04/13	20	3.1	30	5.5	---	---
Table Mountain	2200	1/31/13	10	2.4	21	4.1	18	3.0
Tailholman	540	2/04/13	3	0.3	9	1.7	---	---
Kuskokwim								
Aniak Farm	80	No Survey	21	3.6*	---	---	---	---
Holokuk River	367	No Survey	---	---	20	4.1	---	---
Johnny Slu	180	No Survey	---	---	31	5.1	---	---
Kogrukluk River	193	No Survey	---	---	51	9.2	---	---
Lake Minchumina	730	No Survey	---	---	---	---		
Middle Kuskokwim	297	No Survey	---	---	30	5.6	---	---
N. Fork Kuskokwim	512	No Survey	---	---	28	6.0	---	---
Telaquana Lake	1550	2/01/13	13	3.0	23	3.5	---	---
Lower Yukon								
Deer Creek	195	1/31/13	24	3.6	---	---	---	---
Gouch Creek	220	2/01/13	33	6.4	---	---	---	---
Holikachuk	100	2/01/13	33	6.4	---	---	---	---
Horsefly Creek	180	2/01/13	32	6.1	---	---	---	---
Innoko Inn	200	2/01/13	18	2.8	---	---	---	---
Little Mud River	855	1/31/13	21	3.4	---	---	---	---
Lower Nowitna River	205	1/31/13	19	3.1	---	---	---	---
Middle Innoko	150	2/01/13	33	6.4	---	---	---	---
Nine Mile Island	140	1/31/13	22	3.5	---	---	---	---
Pike Trap Lake	130	1/31/13	15	2.1	---	---	---	---

ARCTIC AND KOTZEBUE SOUND*





Current Basin Conditions

Arctic

Winter snowpack started out with gusto north of the Brooks range this year. Atigun Pass SNOTEL started its seasonal snow pack on September 6 and peaked with 37 inches by October 18th. Imnaviat Creek SNOTEL site received its first snow on October 10th and built up to a 20 inch snowpack by November 3rd. However, after these initial storms the snowpack has stabilized and on February 1st Atigun Pass has 32 inches of snowpack depth and Imnaviat Creek has 24 inches.

Prudhoe Bay SNOTEL site has received 1.8 inches of precipitation since October 1st, about 90% of normal. Imnaviat Creek SNOTEL had received 2.1 inches which is right at normal. However, Atigun Pass has only received 64% of normal or 2.5 inches of precipitation.

Kotzebue

As of January 1st, the Red Dog precipitation gauge has received 4.2 inches of precipitation since October 1st, 3.9 inches of that falling during the month of October.

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

Arctic and Kotzebue Sound

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

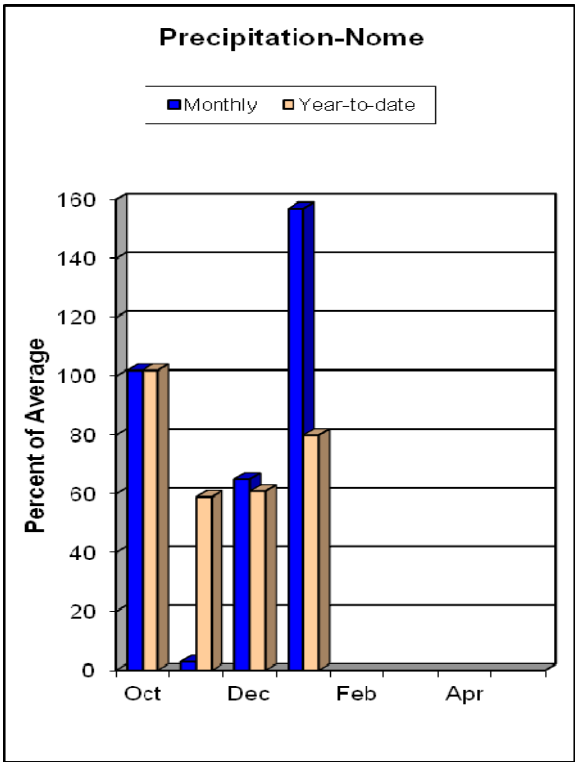
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Arctic						
Atigun Camp	3400	2/01/13	1.9	2.7	1.7	111
Atigun Pass	4800	2/01/13	2.5	5.4	3.9	64
Barrow	25	2/01/13	1.6	1.6	---	---
Imnaviat Creek	3050	2/01/13	2.1	2.1	2.1	100
Prudhoe Bay	30	2/01/13	1.8	1.1	2.0	90
Kotzebue Sound						
Port Red Dog	50	No Report			2.66	---
Red Dog**	950	No Report			3.25	---

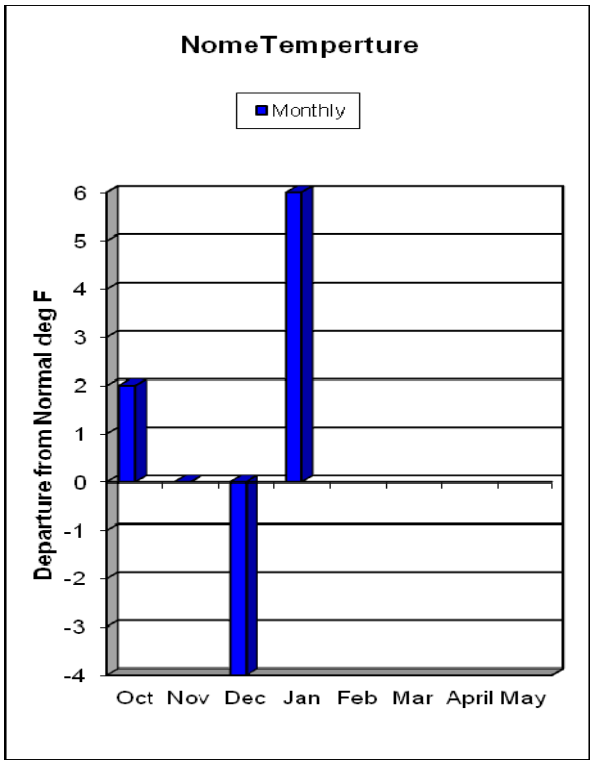
** Wyoming Shielded Gauge

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Arctic Coast	3	---	73
Dalton Highway	3	104	85

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*





Current Basin Conditions

Norton Sound

Rocky Point SNOTEL site has 7 inches of snow depth with an estimated 0.9 inches of water content. The precipitation gauge at Rocky Point has only received 2.7 inches of precipitation since October 1st which is 66% of normal. Johnsons Camp SNOTEL site, 30 miles east of Nome, only has 5 inches of snow on the ground.

Southwest Delta

The Aniak SCAN site reported 21 inches of snow depth, above normal. Bethel has received a good amount of precipitation since October 1st. The National Weather Service is reporting an accumulated total of 144% above normal.

Bristol Bay

Snow is variable in the Bristol Bay basin. King Salmon has a reported 1 inch of snow and the Port Alsworth Snow Course measures zero snow. The Lower Mulchanta SNOTEL site, on the windblown tundra northeast of Koliganek, is reporting 2 inches of snow depth. However, Weary Lake SNOTEL site, a new SNOTEL site 23 miles west of Dillingham at an elevation of 100 feet, is reporting 50 inches of snow

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

Norton Sound / Southwest Delta / Bristol Bay

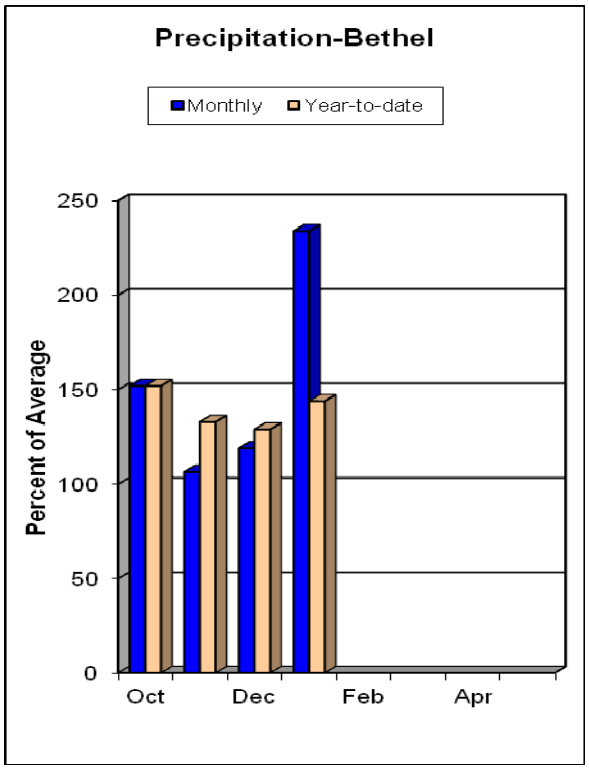
SNOWPACK DATA

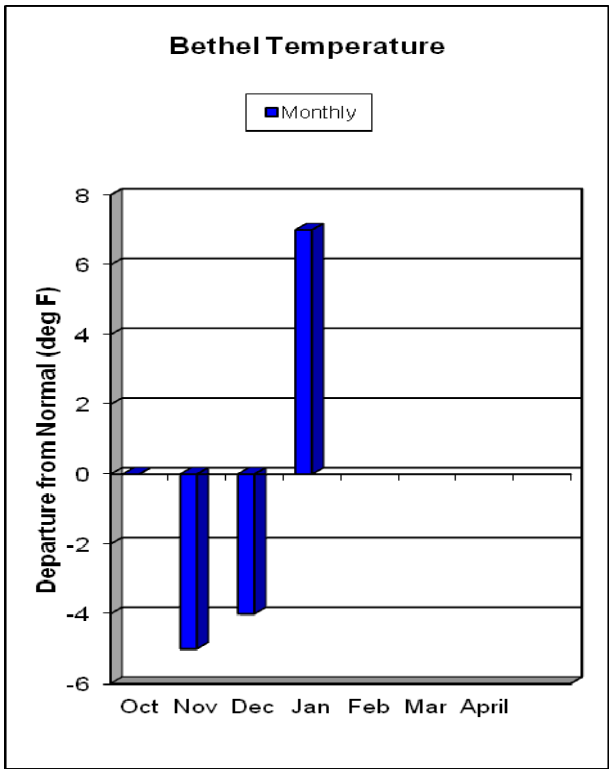
Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth (inches)	THIS YEAR Water Content (inches)	LAST YEAR Snow Depth (inches)	LAST YEAR Water Content (inches)	1981-2010 AVERAGE Snow Depth (inches)	1981-2010 AVERAGE Water Content (inches)
December								
Bristol Bay								
Brooks Camp	150	12/06/12	6	1.1	---	---	---	---
Port Alsworth	270	No Survey	---	---	---	---	---	---
Three Forks	1300	12/06/12	7	1.3	---	---	---	---
Upper Twin Lakes	2000	No Survey	---	---	---	---	---	---
February								
Norton Sound								
Pargon Creek	100	02/01/13	8	1.1*	---	---	---	---
Rocky Point	250	02/01/13	7	1.0*	---	---	---	---
Bristol Bay								
Brooks Camp	150	No Survey	---	---	24	4.7	---	---
Fishtrap Lake	1800	No Survey	---	---	---	---	28	6.6
Port Alsworth	270	1/29/13	0	0.0	28	5.5	17	3.1
Three Forks	1300	No Survey	---	---	26	5.1	---	---
Upper Twin Lakes	2000	No Survey	---	---	---	---	---	---

PRECIPITATION DATA

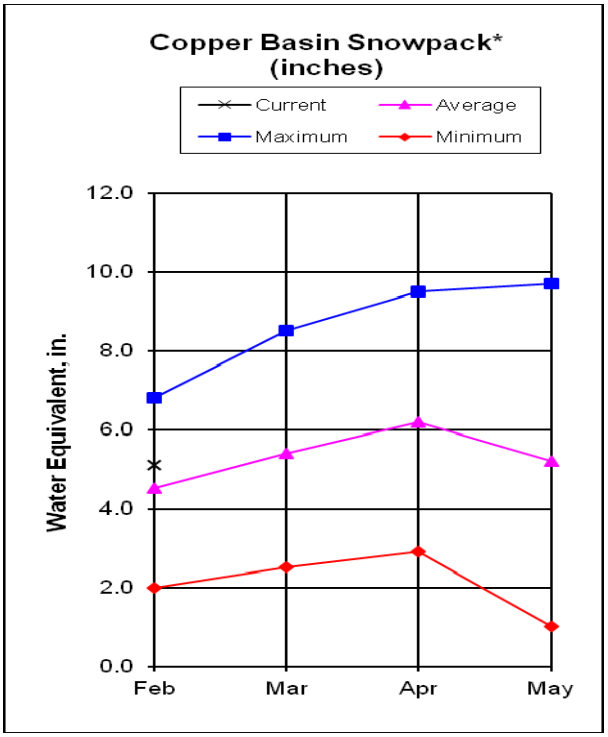
INCHES ACCUMULATED SINCE OCTOBER 1ST

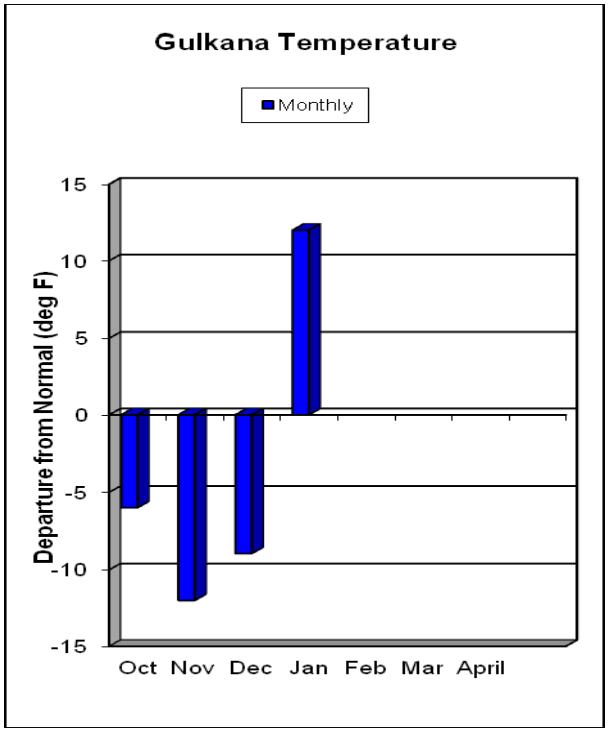
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Pargon Creek	100	2/01/13	4.4	3.5	4.0	110
Rocky Point	500	2/01/13	2.7	4.6	4.1	66





COPPER BASIN*





Current Basin Conditions

The snowpack in the Copper River Basin changes from north to south. Southern snow courses in the Chugach, such as Worthington Glacier, Tsaina River, and Saint Anne Lake are all near 65% of normal snow pack.

The western basin floor is likewise low, varying from 54% at Little Nelchina to 93% at Lake Louise. The eastern basin floor has more snow as demonstrated at the Chistochina Snow Course which is 108% of normal with 19 inches of snow and 2.8 inches of snow water. Haggard Creek Snow Course is also just above normal with 27 inches of snow and 4.3 inches of water content.

The snowpack really jumps near the Alaska Range. The four snow courses in this region average 128% of normal, ranging from 117% at Paxson Snow Course to 135% at Fielding Lake. Mentasta Pass has 130% of normal snow pack with 29 inches of depth and 5.2 inches of snow water content.

For more information contact the Natural Resources Conservation Service in Copper River, Delta Junction or Anchorage.

Copper Basin

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Chokosna	1550	11/30/12	9	1.3	---	---	---	---
Kenny Lake School	1300	11/30/12	9	0.9	12	1.2	10	1.3
Lake Louise	2400	11/30/12	12	1.1	13	1.8	12	1.6
Little Nelchina	2650	11/30/12	10	0.9	13	2.0	12	1.5
Long Glacier	4820	11/29/12	21	3.6			---	---
May Creek	1610	12/01/12	9	0.9	12	1.4	---	2.0
Notch	2643	11/29/12	17	2.3	12	1.5	---	---
Tazlina	1225	11/30/12	10	1.1	10	1.1	9	1.1
Tebay Lake	1930	No Survey	---	---	48	9.0	---	---
Tolsona Creek	2000	11/30/12	8	0.9	11	1.1	11	1.8
Upper Tsaina River	1750	12/01/12	10	1.6	34	6.0	---	5.2
January								
May Creek	1610	1/01/13	15	2.0	19	2.7	---	3.0
Upper Tsaina River	1750	1/01/13	18	4.0	57	13.3	---	9.3
February								
Chistochina	1950	1/31/13	19	2.8	28	5.5	17	2.6
Chokosna	1550	2/01/13	16	3.0	23	4.8	---	---
Dadina Lake	2160	2/02/13	13	2.2	28	5.2	25	4.4
Fielding Lake	3000	No Survey			47	10.5	32	6.6
Haggard Creek	2540	1/31/13	27	4.3	28	5.2	23	4.1
Horsepasture Pass	4300	2/02/13	30	5.6	24	5.0	27	4.6
Kenny Lake School	1300	1/30/13	17	2.1	21	4.1	14	2.6
Lake Louise	2400	1/30/13	22	2.8	23	4.2	19	3.0
Little Nelchina	2650	1/30/13	16	2.1	26	5.0	22	3.9
May Creek	1610	2/01/13	23	3.5	23	3.6	---	3.7
Mentasta Pass	2430	1/31/13	29	5.2	29	6.4	22	4.0
Monsoon Lake	3100	2/02/13	31	5.9	29	6.0	25	4.6
Paxson	2650	1/31/13	34	6.2	37	8.0	27	5.3
Sanford River	2280	2/02/13	41	8.4	25	4.8	22	3.8
St. Anne Lake	1990	2/02/13	14	2.3	28	5.5	19	3.7
Tazlina	1225	1/31/13	14	2.2	21	4.8	15	2.8
Tolsona Creek	2000	1/30/13	16	2.0	23	4.1	18	3.2
Tsaina River	1650	1/31/13	40	6.7	56	15.3	48	11.2
Twin Lakes	2400	No Survey	---	---	28	6.0	24	4.4
Upper Tsaina River	1750	2/01/13	44	8.1	64	18.9	---	12.9
Worthington Glacier	2100	1/31/13	53	11.3	83	27.0	60	16.8

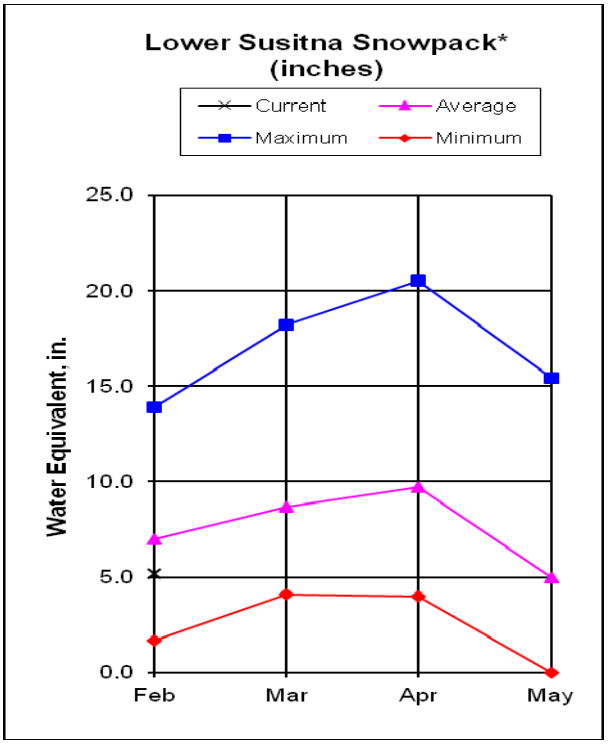
Estimate*

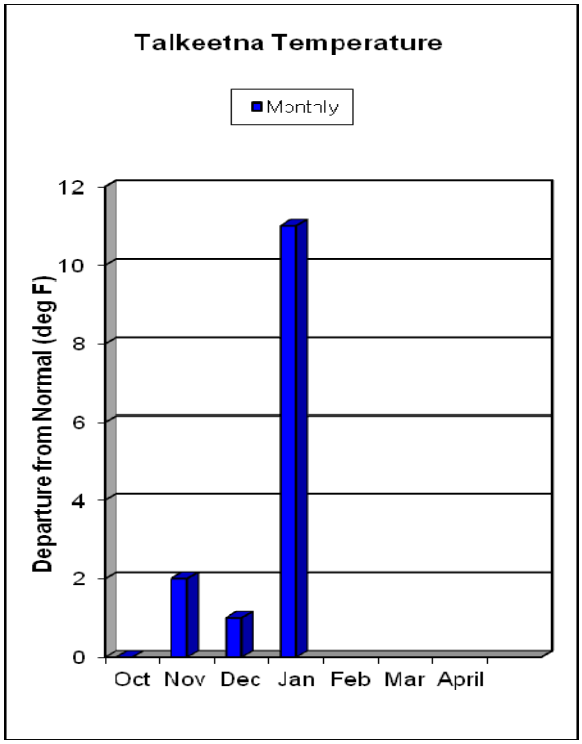
WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Alaska Range*	4	85	128
Basin Floor	6	60	83
Chugach Range	5	43	65
Talkeetna Mountains	3	73	98
Wrangell Mountains	4	93	118

*At the foot of the Alaska Range.

MATANUSKA - SUSITNA BASINS*





Current Basin Conditions

The Susitna Basin ranges from below normal at lower elevation sites to above normal at higher elevation sites and near its headwaters.

The lower Susitna Basin snow courses average to 79% of normal. This ranges from 60% at Skwentna to 92% at Willow Airport which has 27 inches of snow and 5.0 inches of snowpack. This low snowpack continues up into the upper basin on the west side of the Talkeetna Mountains which is evident with the East Fork of the Chulitna Snow Course having 37 inches of snow and 7.6 inches of water content, 80% of normal. However, the Tokositna Valley SNOTEL site, south of Denali, is 101% of normal with 38 inches of snow and 8.6 inches of water content.

The upper Susitna Basin on the east side of the Talkeetna Mountains, in contrast to the lower basin, is above normal. The average of the nine snow courses in this area of the basin is 127% of normal.

In the Matanuska Basin, up the Glenn Highway, the Sheep Mountain Snow Course is 65% of Normal. Closer to Palmer, the Hatcher's Pass snow courses are above normal. This is displayed at the Independence mine Snow Course which has 60 inches of snow with 15.3 inches of water content, 108% of normal.

The Point MacKenzie SNOTEL site has caught 6.7 inches of precipitation since October 1st, 108% of normal. However, the snowpack at the SNOTEL site is only 66% of normal with 15 inches of depth and 2.7 inches of water content.

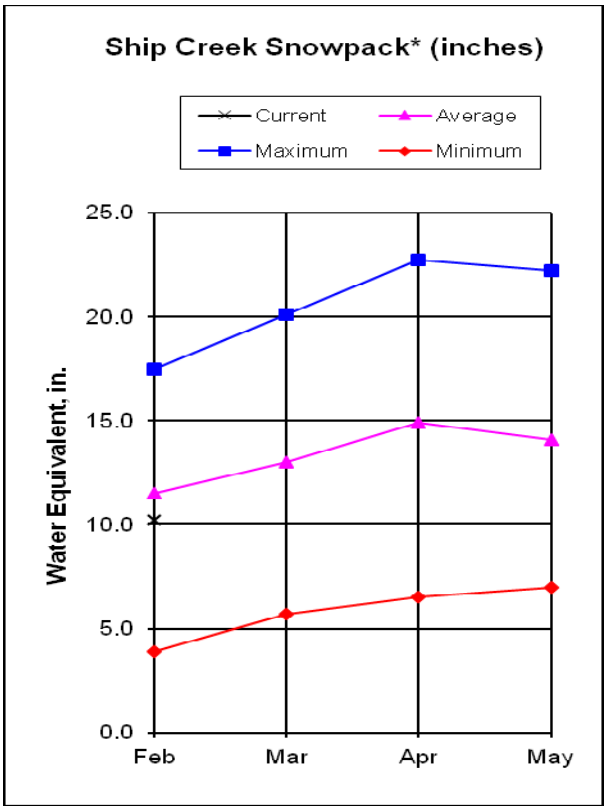
*For more information contact the Natural Resources Conservation Service in Wasilla.

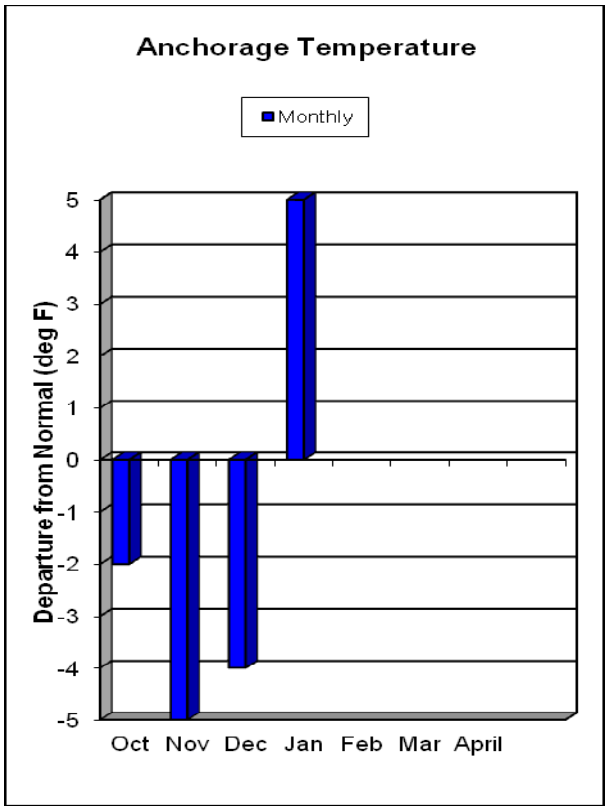
Matanuska - Susitna Basins

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Archangel Road	2200	11/30/12	5	0.5	---	---	---	4.6
Blueberry Hill	1200	No Survey	---	---	27	3.9	---	---
Denali View	700	11/29/12	19	2.4	19	2.4	18	3.4
E. Fork Chulitna	1800	11/29/12	5	0.9	24	3.6	20	3.9
Fishhook Basin	3300	11/30/12	8	0.7	---	---	28	6.3
Independence Mine	3550	11/30/12	8	0.9	---	---	31	6.8
Lake Louise	2400	11/30/12	12	1.1	13	1.8	12	1.6
Little Susitna	1700	11/30/12	4	0.5	---	---	20	3.4
Moose Creek Ranch	450	11/30/12	0	0.0	15	2.4	---	---
Sheep Mountain	2900	11/30/12	9	0.9	20	3.0	14	1.8
Susitna Valley High	375	12/01/11	6	0.9	16	3.2	---	2.9
Talkeetna	350	11/29/12	5	0.8	14	1.9	13	1.8
Tokositna Valley	850	12/01/11	6	1.1	28	4.0	---	4.3
Willow Airstrip	200	11/29/12	8	1.4	19	3.6	16	2.5
January								
Independence Mine	3550	No Report					---	---
Susitna Valley High	500	1/01/13	13	2.0	30	7.3	---	5.0
Tokositna Valley	850	1/01/13	13	2.8	60	10.1	---	6.0
February								
Alexander Lake	160	1/29/13	32	6.5	41	10.9	37	8.0
Archangel Road	2200	2/01/13	45	10.3	---	---	38	10.0
Bentalit Lodge	150	2/01/13	---	0.5	34*	6.4	---	5.4
Blueberry Hill	1200	2/01/13	35	7.9	50	13.4	43	10.7
Chelatna Lake	1650	No Survey	---	---	---	---	38	8.6
Clearwater Lake	2650	2/02/13	36	7.1	29	5.0	22	4.0
Curtis Lake	2850	2/02/13	18	2.7	---	---	20	3.2
Denali View	700	2/01/13	29	5.8	47	11.5	35	8.8
Dunkle Hills	2700	No Survey	---	---	---	---	---	---
Dutch Hills	3100	No Survey	---	---	---	---	62	18.0
E. Fork Chulitna	1800	2/01/13	37	7.6	48	12.2	41	9.5
Fishhook Basin	3300	2/01/13	54	12.5	77	20.8	46	12.5
Fog Lakes	2120	2/02/13	36	7.1	27	5.0	20	3.4
Halfway Slough	350	2/01/13	21	4.0	36	7.9	---	---
Independence Mine	3550	2/01/13	60	15.3	68	14.8	52	14.5
Lake Louise	2400	1/30/13	22	2.8	23	4.2	19	3.0
Little Susitna	1700	2/01/13	38	8.6	54	13.0	34	8.0
Monahan Flat	2710	2/01/13	22	4.2*	33	6.5*	28	5.6
Moose Creek Ranch	450	1/30/13	10	1.9	22	5.1	---	---
Nugget Bench	2010	No Survey	---	---	---	---	42	10.8
Ramsdyke Creek	2220	No Survey	---	---	---	---	56	15.5
Sheep Mountain	2900	1/30/13	19	2.6	31	7.2	21	4.0
Skwentna	160	1/29/13	25	4.8	41	10.8	36	8.0
Square Lake	2950	2/02/13	22	3.3	19	3.5	20	3.1
Susitna Valley High	500	2/01/13	24	4.0	41	8.9	---	6.3
Talkeetna	350	2/01/13	21	4.4	36	7.5	24	4.8
Tokositna Valley	850	2/01/13	38	8.6	54	12.5	---	8.5
Tyone River	2500	No Survey	---	---	---	---	20	4.0
Upper Oshetna River	3150	2/02/13	42	8.4	24	4.3	19	3.1
Upper Sanona Creek	3100	2/02/13	38	7.4	31	5.9	23	3.9
Willow Airstrip	200	2/01/13	27	5.0	38	9.1	25	4.9

Northern Cook Inlet





Current Basin Conditions

Snow Conditions in Northern Cook Inlet are variable. The Indian Pass and Mount Alyeska SNOTEL sites are near normal with 93% and 104% of normal, respectively. Conversely, Portage Valley Snow Course is 71% of normal and Anchorage Hillside SNOTEL site is 63% of normal. South Campbell Creek Snow Course, with 40 years of measurements, set a new record low of 6 inches with 0.6 inches of water content, 13% of normal.

Precipitation was also variable. Indian Pass SNOTEL received 23.8 inches of precipitation since October 1st or 130% of normal. Moraine SNOTEL site, perched a 1000 feet above Eklutna Reservoir, received only 68% of normal precipitation, 5.8 inches.

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

Northern Cook Inlet

SNOW PACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR Snow Depth (inches)	THIS YEAR Water Content (inches)	LAST YEAR Snow Depth (inches)	LAST YEAR Water Content (inches)	1981-2010 AVERAGE Snow Depth (inches)	1981-2010 AVERAGE Water Content (inches)
December								
Anchorage Hillside	2080	12/01/12	6	0.8	22	4.5	---	3.5
Indian Pass	2350	12/01/12	15	2.2	40	10.5	---	6.3
Kincaid Park	250	12/02/12	2	0.2*	12	1.9	7	1.2
Moraine	2100	12/01/12	3	0.2	17	3.4	---	2.3
Mt. Alyeska	1540	12/01/12	12	2.5	29	5.7	---	7.5
Point Mackenzie	200	12/01/12	5	0.7	11	2.4	---	1.0
Portage Valley	50	11/30/12	20	3.4	34	7.8	14	2.8
South Campbell Creek	1200	11/30/12	6	0.7	18	3.4	12	2.2
January								
Anchorage Hillside	2080	1/01/13	12	2.5	44	10.1	---	5.7
Indian Pass	2350	1/01/13	38	6.4	65	20.0	---	12.3
Moraine	2100	1/01/13	11	1.7	32	7.3	---	4.5
Mt. Alyeska	1540	1/01/13	37	10.7	56	14.3	---	14.7
Point Mackenzie	200	1/01/13	11	2.1	22	5.0	---	2.6
Portage Valley	50	1/02/13	19	6.1	46	13.4	---	---
February								
Anchorage Hillside	2080	2/01/13	20	4.5	47	12.3	---	7.1
Indian Pass	2350	2/01/13	69	15.4	71	22.7	---	16.6
Kincaid Park	250	2/01/13	11	2.6	27	6.3	15	3.1
Moraine	2100	2/01/13	15	3.1	34	8.6	---	5.4
Mt. Alyeska	1540	2/01/13	69	21.6	69	19.3	---	20.8
Point Mackenzie	200	2/01/13	15	2.7	27	5.0	---	4.1
Portage Valley	50	1/31/13	20	6.0	80	21.7	26	8.4
South Campbell Creek	1200	1/29/13	6	0.6	28	6.7	20	4.7

PRECIPITATION DATA

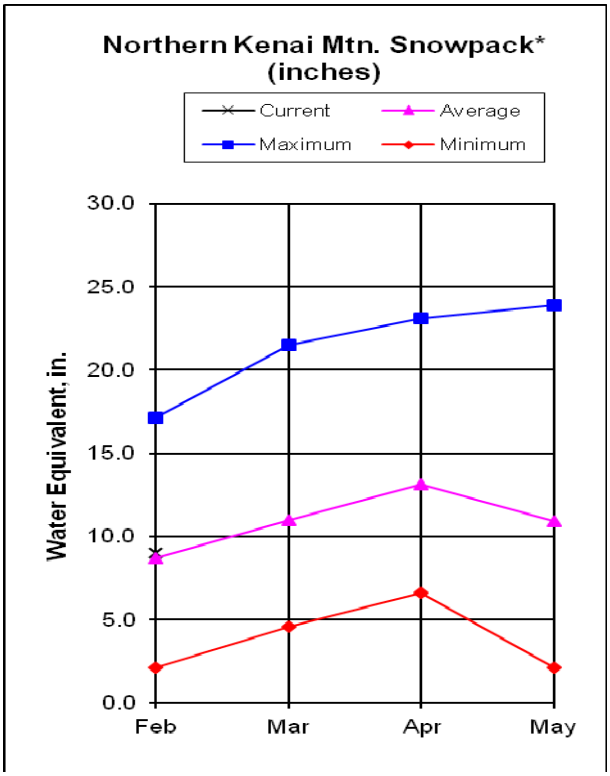
INCHES ACCUMULATED SINCE OCTOBER 1ST

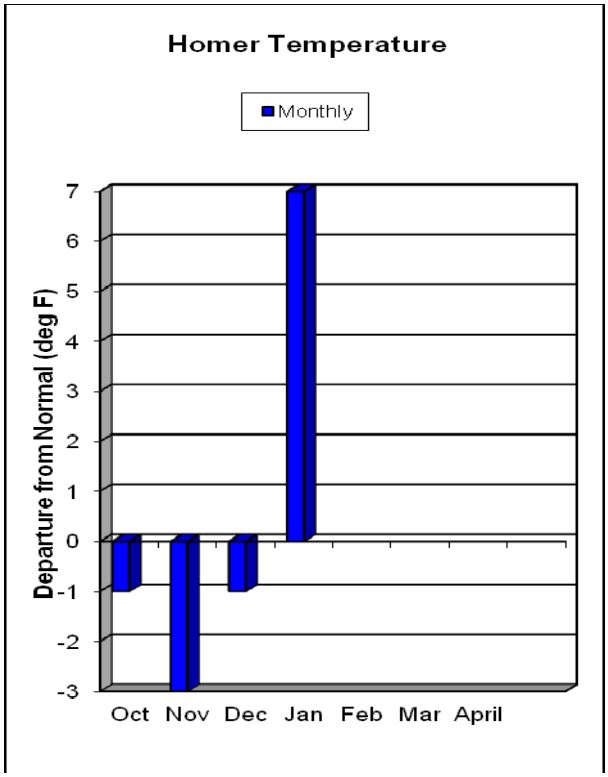
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Anchorage Hillside	2080	2/01/13	8.9	16.8	10.3	86
Indian Pass	2350	2/01/13	23.8	25.4	18.3	130
Moraine	2100	2/01/13	5.7	11.5	8.5	67
Mt. Alyeska	1540	2/01/13	26.5	31.9	33.5	79
Point Mackenzie	200	2/01/13	6.7	8.3	6.2	108

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Campbell Creek	3	30	52
Ship Creek	3	53	79
Turnagain Arm	3	70	90

KENAI PENINSULA*





Current Basin Conditions

The Northern Kenai Mountains' 10 snow courses average 93% of normal. However, most of the snow courses are near normal with a few bringing down the average. These are the Snug Harbor Road snow course at 78%, Jean Lake Snow Course at 80%, and Turnagain Pass SNOTEL at 85% of normal. Moose Pass snow course was above normal with 20 inches of snow and 5.3 inches of water content.

The snow pack near Homer and north is above normal, ranging from 101% of normal at Bridge Creek snow course to 130% of normal at the McNeil Canyon SNOTEL on East End Road. Anchor River Divide SNOTEL site had both 125% of normal snow pack with 40 inches of snow and 11.0 inches of water content, and 125% of normal precipitation since October 1st which is 15.6 inches.

South across Kachemak Bay, the snowpack is lower. Port Graham SNOTEL site had 66% of normal precipitation and 85% of normal snowpack. The Nuka Glacier SNOTEL site, near Bradley Lake, has only 61 percent of normal precipitation for the Water Year, 25.3 inches. The snow there is 56 inches deep with an estimated 18.5 inches of water content, which is just below normal.

Kenai Peninsula

SNOWPACK DATA

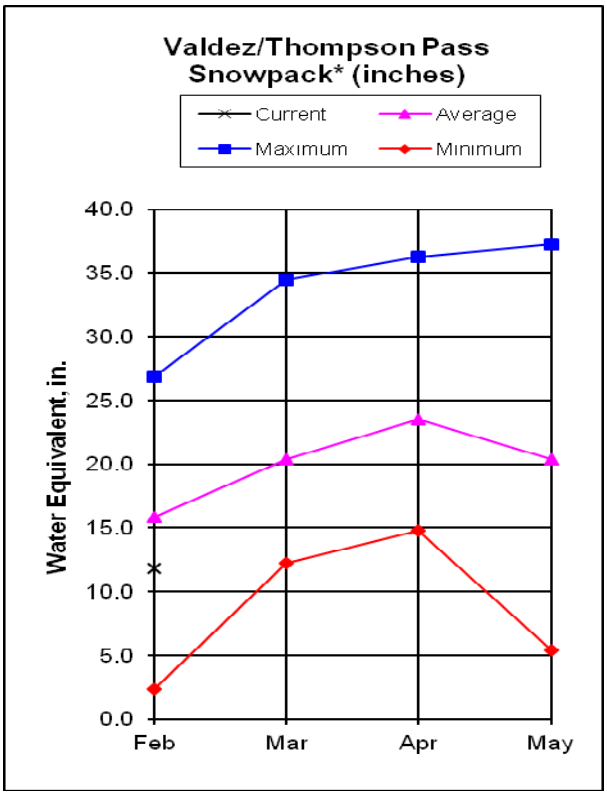
Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Anchor River Divide	1650	12/01/12	5	1.6	15	3.3	---	2.9
Bertha Creek	950	11/29/12	13	2.2	25	4.7	---	---
Bridge Creek	1300	12/03/12	5	0.8	14	2.4	12	1.5
Cooper Lake	1200	12/01/12	10	2.2	19	3.0	---	3.2
Demonstration Forest	780	12/03/12	4	1.0	14	2.0	8	1.0
Grandview	1100	12/01/12	19	4.1	32	6.1	---	5.3
Grouse Creek Divide	700	12/01/12	6	0.3	14	3.3	---	2.9
Jean Lake	620	11/30/12	4	0.4	11	2.0	8	1.0
Kachemak Creek	1660	12/01/12	7	---	12	3.4*	---	---
Kenai Summit	1390	11/29/12	10	1.4	29	5.7	20	4.0
McNeil Canyon	1320	12/01/12	4	1.2	10	2.8	---	1.9
Moose Pass	700	11/29/12	5	0.6	20	3.6	11	1.6
Nuka Glacier	1250	11/30/12	4	0.8*	12	3.4*	14	4.2
Port Graham	300	12/01/12	6	1.8	18	5.1	---	0.5
Snug Harbor Road	500	11/30/12	3	1.0	11	1.8	8	1.0
Summit Creek	1400	12/01/12	7	1.0	23	4.5	---	2.6
Turnagain Pass	1880	12/01/12	18	3.3	38	8.2	---	7.4
January								
Anchor River Divide	1650	1/01/13	39	7.2	37	8.9	---	5.9
Bertha Creek	950	No Survey	---	---	44	10.5	---	---
Cooper Lake	1200	1/01/13	23	6.2	44	9.9	---	8.2
Grandview	1100	1/01/13	41	10.3	52	12.5	---	14.2
Grouse Creek Divide	700	1/01/13	17	5.9	45	11.1	---	8.3
McNeil Canyon	1320	1/01/13	21	5.6	28	6.7	---	4.7
Summit Creek	1400	1/01/13	19	4.5	49	10.2	---	6.2
Turnagain Pass	1880	1/01/13	62	11.5	67	21.7	---	15.3
February								
Anchor River Divide	1650	2/01/13	40	11.0	42	10.4	---	8.8
Bertha Creek	950	1/31/13	43	12.2	56	14.9	44	12.4
Bridge Creek	1300	2/01/13	31	7.5	45	10.5*	30	7.4
Cooper Lake	1200	2/01/13	37	11.1	55	12.6	---	11.3
Demonstration Forest	780	2/01/13	20	5.4	43	9.2*	20	4.8
Grandview	1100	2/01/13	56	17.7	70*	18.1	---	19.7
Grouse Creek Divide	700	2/01/13	31	12.0	62	16.3	---	12.3
Jean Lake	620	1/31/13	10	2.4	23	4.4	14	3.0
Kachemak Creek	1660	2/01/13	37	---	38	11.0*	---	---
Kenai Moose Pens	300	2/01/13	14	3.0	23	4.5	---	3.6
Kenai Summit	1390	1/31/13	43	9.6	50	13.5	37	9.6
McNeil Canyon	1320	2/01/13	28	9.2	39	10.6	---	7.1
Moose Pass	700	1/31/13	20	5.3	45	11.5	20	4.9
Nuka Glacier	1250	2/01/13	56	18.5*	71	18.0*	59	18.6
Port Graham	300	2/01/13	18	4.1	47	12.4	---	4.8
Snug Harbor Road	500	1/31/13	11	2.8	27	7.0	15	3.6
Summit Creek	1400	2/01/13	34	8.1	47	12.4	---	8.1
Turnagain Pass	1880	2/01/13	73	19.6	84	21.7	---	23.0

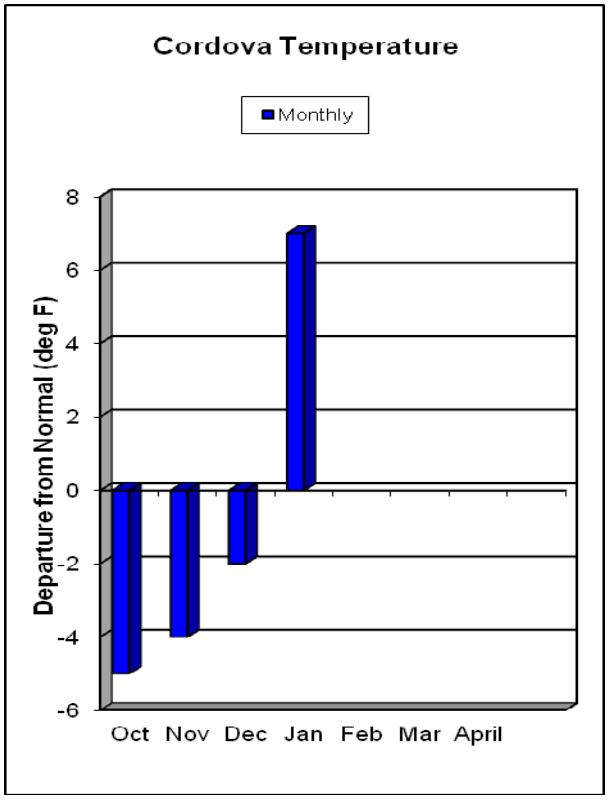
PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Anchor River Divide	1650	2/1/13	15.6	13.1	12.4	126
Cooper Lake	1200	2/1/13	13.9	22.4	20.0	70
Grandview	1100	2/1/13	21.2	32.9	30.0	71
Grouse Creek Divide	700	2/1/13	18.5	29.5	28.2	66
Kachemak Creek	1660	2/1/13	21.5	32.5	30.6	70
Kenai Moose Pens	300	2/1/13	6.7	7.1	6.3	106
McNeil Canyon	1320	2/1/13	12.1	12.1	11.3	107
Middle Fork Bradley	2300	2/1/13	14.6	27.1	25.3	58
Nuka Glacier	1250	2/1/13	25.3	33.4	41.3	61
Port Graham	300	2/1/13	24.5	35.6	36.9	66
Summit Creek	1400	2/1/13	11.5	19.0	11.9	97
Turnagain Pass	1880	2/1/13	24.3	29.3	28.5	85

Western Gulf*





Current Basin Conditions

The Western Gulf of Alaska area has near normal snowpack conditions. Mt Eyak SNOTEL, above Cordova, has 54 inches of snow with 17.4 inches of water content.
The Valdez snow course is 101% of normal with 46 inches of snow and 11.5 inches of water content. Further west, the Exit Glacier SNOTEL site has 36 inches of snow with 11.0 inches of water content which is 94% of normal.

The Sugarloaf SNOTEL site, across from Valdez, has only caught 22.7 inches of precipitation since October 1st, around 77% of normal. On the northwestern side of Prince William Sound, Esther Island SNOTEL site has similarly caught only 77% of normal precipitation, 44.3 inches.

Western Gulf

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Exit Glacier	400	12/01/12	5	1.4	17	4.0	---	3.5
Grouse Creek Divide	700	12/01/12	6	0.3	14	3.3	---	2.9
Mt. Eyak	1405	12/01/12	26	5.6	51	11.7	---	7.4
Nuka Glacier	1250	11/30/12	4	0.8*	12	3.4*	14	4.2
Sugarloaf Mountain	550	11/30/12	4	1.1	30	5.5	---	---
Upper Tsaina River	1750	12/01/12	10	1.6	34	6.0	---	5.2
January								
Exit Glacier	400	1/01/12	18	6.9	34	9.3	---	8.0
Grouse Creek Divide	700	1/01/13	17	5.9	45	11.1	---	8.3
Mt. Eyak	1405	1/01/13	35	9.9	102	24.3	---	12.8
Sugarloaf Mountain	550	1/02/13	28	7.0	84	21.2	---	---
Upper Tsaina River	1750	1/01/13	18	4.0	57	13.3	---	9.3
February								
Exit Glacier	400	2/01/13	36	11.0	61	16.1	---	11.7
Grouse Creek Divide	700	2/01/13	31	12.0	62	16.3	---	12.3
Lowe River	425	1/31/13	46	9.7	65	17.8	44	11.1
Mt. Eyak	1405	2/01/13	54	17.4	91	28.5	---	17.9
Nuka Glacier	1250	2/01/13	56	18.5*	71	18.3*	59	18.6
Sugarloaf Mountain	550	2/01/13	54	13.4*	88	30.7	60	16.7
Tsaina River	1650	1/31/13	40	6.7	56	15.3	48	11.2
Upper Tsaina River	1750	2/01/13	44	8.1	64	18.9	---	12.9
Valdez	50	1/31/13	46	11.5	66	20.8	42	11.4
Worthington Glacier	2100	1/31/13	53	11.3	83	27.0	60	16.8

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

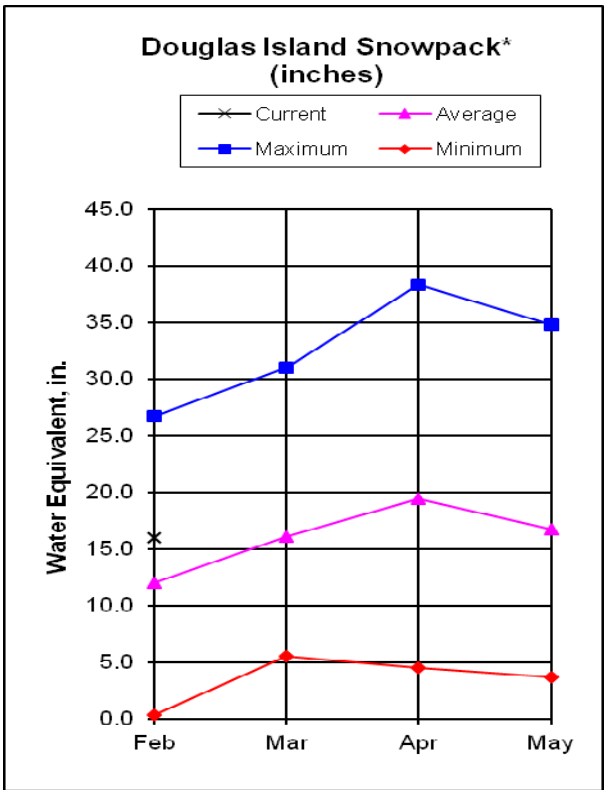
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Esther Island	50	2/1/13	44.3	70.0	60.7	73
Exit Glacier	400	2/1/13	26.9	38.7	----	---
Grouse Creek Divide	700	2/1/13	18.5	29.5	28.2	66
Mt. Eyak	1405	2/1/13	41.1	58.9	----	---
Nuka Glacier**	1250	2/1/13	25.3	33.4	41.3	61
Port San Juan	50	2/1/13	40.8	58.7	56.7	72
Seal Island	20	No Data	---	---	----	---
Strawberry Reef	50	No Data	---	42.9	----	---
Sugarloaf Mountain	550	2/1/13	22.7	43.0	29.3	77
Tatitlek	50	No Data	---	40.1	30.6	140
Upper Tsaina River	1750	2/1/13	14.0	19.9	19.9	70

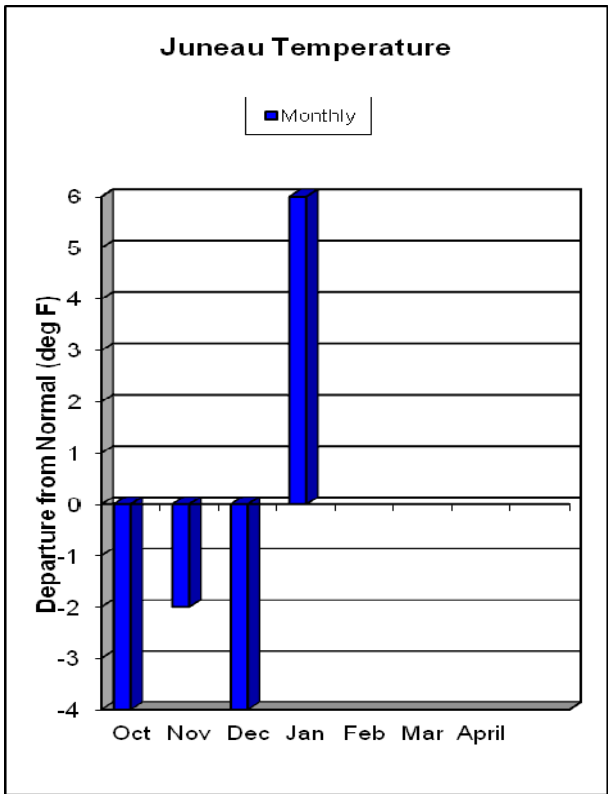
**Wyoming shielded gauge
*Copper Valley Electric Association

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lowe River (Valdez)	3	51	85
Eyak Lake	1	61	97

SOUTHEAST*





Current Basin Conditions

Southeast Alaska has above normal snowpack. How high above normal depends on elevation. High elevation sites are nearer normal. Cropley Lake on Douglas Island is 133% of normal and Petersburg Ridge Snow Course is 116% of normal. Lower elevation sites are much higher compared to normal. Petersburg Reservoir at 550 feet elevation is 151% of normal with 56 inches of snow with 19.3 inches of water content, which is still only half of last year's record breaking snow pack. Fish Creek Snow Course on Douglas Island at elevation 500 feet is 171% percent of normal with 17 inches of snow and 5.3 inches of water content, again only half of last year's snowpack.

Long Lake SNOTEL site has 85 inches of snow with 30.2 inches of water content which is 120% of normal. However the precipitation gauge at the site has only caught 75% of normal precipitation since October 1st or 56.3 inches. Similarly, the Moore Creek Bridge SNOTEL site, between Skagway and White Pass, has only received 85% of normal precipitation, but has 122% of normal snowpack.

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

Southeast

SNOWPACK DATA

Snow Course	Elev.	Date	THIS YEAR		LAST YEAR		1981-2010 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
	(feet)		(inches)					
December								
Cropley Lake	1650	11/28/12	21	3.3	58	14.0	21	5.7
Eagle Crest	1200	11/28/12	15	2.2	48	10.9	6	1.0
Fish Creek	500	11/28/12	8	1.1	24	4.7	0	0.0
Institute Creek	1350	11/30/12	9	2.6	46	10.6	---	---
Long Lake	850	12/01/12	28	8.0	46	13.8	---	9.5
Moore Creek Bridge	2250	12/01/12	21	4.2	22	4.1	22	4.2
Petersburg Reservoir	550	11/29/12	8	1.0	37	5.6	---	---
Petersburg Ridge	1650	11/29/12	19	4.0	53	11.4	---	---
Rainbow Falls	500	11/29/12	3	0.9*	21	3.4	---	---
West Creek	470	12/03/12	15	3.0	22	3.5	---	---
January								
Lake Grace Pass	1900	No Survey	---	---	---	---	---	---
Long Lake	850	1/01/13	62	18.9	94	22.2	---	15.9
Lost Lake	425	No Survey	---	---	---	---	---	---
Mint Creek Ridge	1900	No Survey	---	---	---	---	---	---
Petersburg Reservoir	550	12/28/12	24	5.9	36	9.5	---	---
Petersburg Ridge	1650	12/28/12	52	11.8	83	22.3	---	---
Upper Swan Lake	1700	No Survey	---	---	---	---	---	---
Upper Silvas	2300	No Survey	---	---	---	---	---	---
West Creek	470	No Survey	---	---	---	---	---	---
February								
Cropley Lake	1650	1/31/13	72	24.4	136	38.1	56	18.4
Eagle Crest	1200	1/31/13	52	18.2	114	31.3	36	10.6
Fish Creek	500	1/31/13	17	5.3	41	10.7	14	3.1
Institute Creek	1350	No Survey	---	---	85	30.3	---	---
Long Lake	850	2/01/13	85	30.2	121	35.4	---	25.2
Moore Creek Bridge	2250	1/30/13	61	16.6	64	17.5	54	13.6
Petersburg Reservoir	550	1/30/13	21	5.6	55	15.0	16	3.7
Petersburg Ridge	1650	1/31/13	56	19.3	117	39.1	48	16.7
Rainbow Falls	500	No Survey	---	---	18	4.5	---	---
West Creek	470	1/31/13	36	8.5*	42	10.9*	---	---

Estimate *

PRECIPITATION DATA

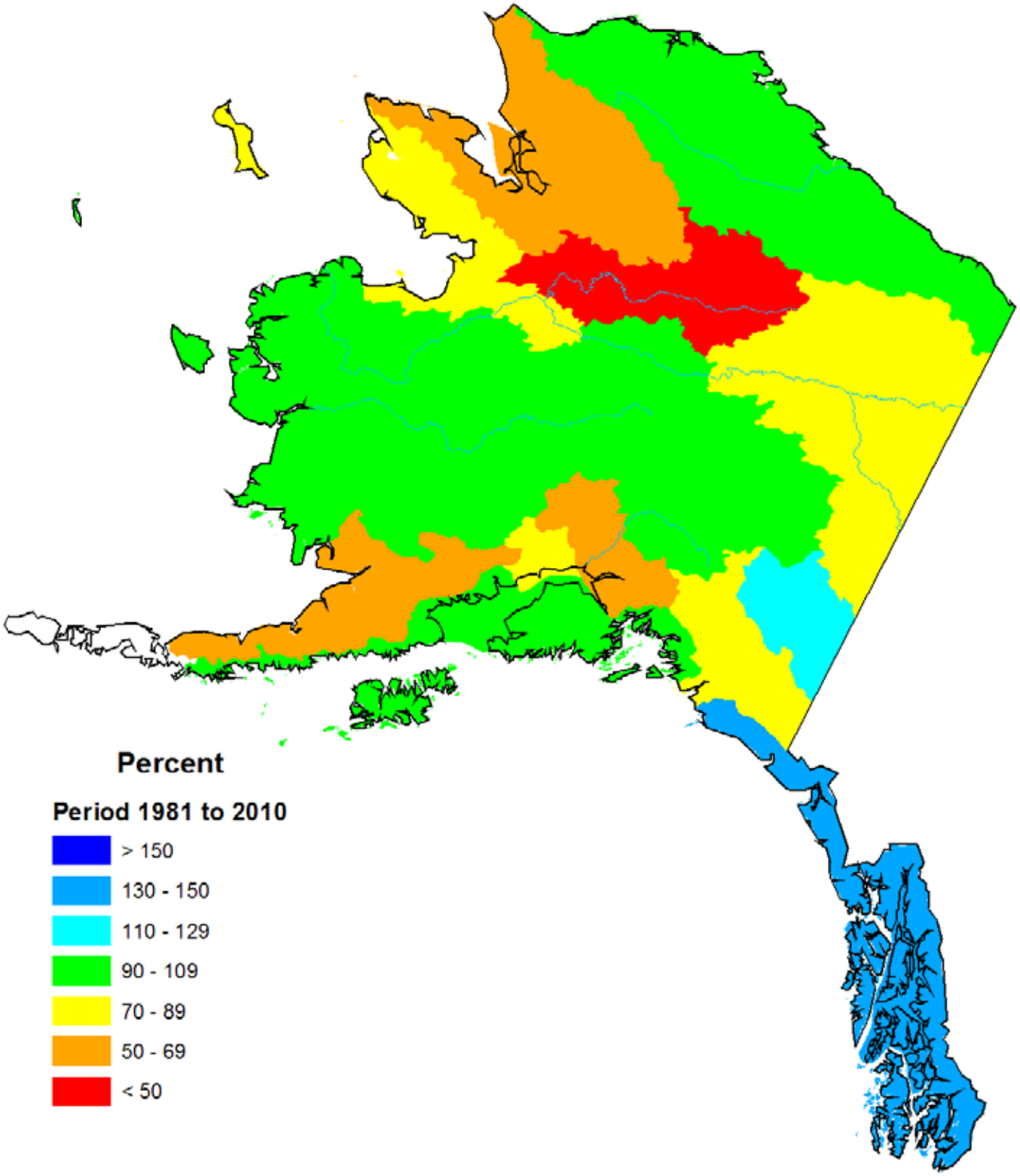
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1981-2010 Ave	% of Average
Long Lake	850	2/1/13	56.3	83.7	75.0	75
Moore Creek Bridge	2250	2/1/13	16.4	23.1	20.1	82
Snettisham	25	2/1/13	58.6	106.8	78.5	75
Swan Lake	50	No Report	---	---	----	---

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Douglas Island	3	60	149
Long Lake	1	85	120
Petersburg	2	46	22
Skagway	1	85	120

Alaska Snowpack
February 1, 2013



Prepared by
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Alaska Snow Survey Report

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