

United States Department of Agriculture

 **NRCS** Natural Resources
Conservation Service

Alaska Basin Outlook Report



February 1, 2004

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United States Department of Agriculture



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GENERAL OVERVIEW

Snowpack

Snow started a month late throughout the State at lower elevations from Fairbanks south when 3 inches were received November 10th. Anchorage had no snow on the ground until November 10th when 4 inches were received. More snow storms moved through Fairbanks and Anchorage about the 20th and continued to the end of the month.

On the Seward Peninsula, the snow began to accumulate November 17th at the Pargon Creek SNOTEL site in the Fish River Flats, north of White Mountain.

In December, it was reported that Anchorage recorded its second highest amount of snowfall for the month.

Anchorage south to Kenai Peninsula and through Southeast had a good amount of precipitation in December, consisting of snow when cold enough and rain otherwise in Southeast Alaska.

Most of the northern part of the state in January was dominated by cold high pressure systems and little snow. Southeast, however, was warmer and received a combination of rain and snow, depending on elevation.

In general, January had some good winds ranging from Port Alsworth to Nome in Western Alaska and through portions of the Tanana Valley. Snow courses that may be susceptible to drifting were drifted.

Precipitation

Precipitation in October varied from 7 percent of normal at Fairbanks to 228 percent at Barrow, to 97 percent at Anchorage, and to 57 percent at Juneau. Most all of the precipitation was rain.

November precipitation was generally below normal.

December precipitation was above normal across most of the state south of the Alaska Range, and below normal north of the Alaska Range.

In January, the jet stream shifted further south and only Southeast had above normal precipitation.

Temperature

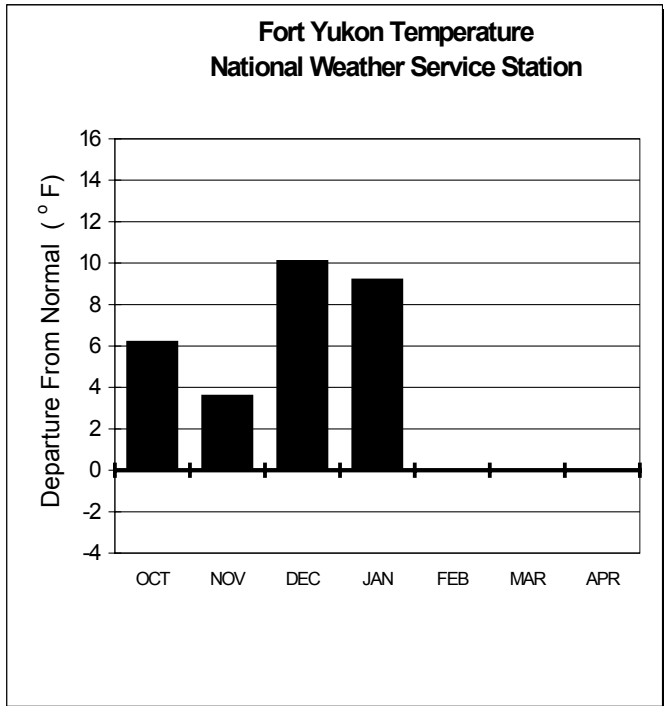
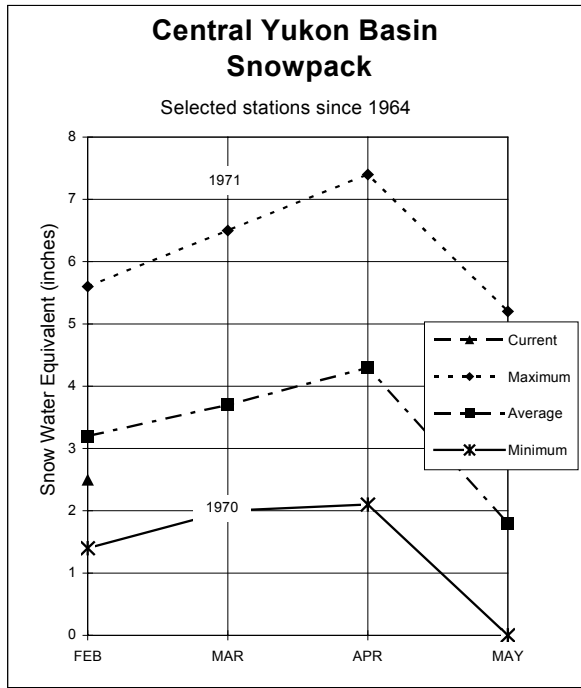
Above normal temperatures dominated the state in October, ranging from 1.5 ° F above normal at Juneau to 11.7 ° F above normal at Bettles and Barrow.

In November, the temperatures varied above and a little below normal. Galena was the extreme above normal at 9.3 ° F. The below average normal temperatures of -1.6 ° F occurred at Healy, Cordova and Juneau.

For December, McGrath was the extreme below normal at -3.9 ° F and Fort Yukon was 10.1 ° F above normal temperatures.

Southeast in January was a little above normal average temperatures as indicated by Juneau at 1.7 ° F above. Fort Yukon was 9.2 ° F above, while Gulkana was 12.8 ° F below normal.

CENTRAL YUKON BASIN*



Current Basin Conditions

The snow water content varies across the Basin from 80 percent of normal at the Seven Mile snow course, seven miles north of the Yukon Crossing on the Dalton Highway, to 92 percent of normal at the Wolf snow course in the White Mountains.

The Mission Creek snow course, at Eagle, has 2.9 inches of water content, 72.5 percent of normal.

The Atigun Pass precipitation gauge has received 58 percent of normal precipitation since October 1, 2003.

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

Central Yukon Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
December								
Fort Yukon	430	12/01/03	7	0.8	7	1.0	---	---
Hess Creek	1000	12/01/03	9	1.0	9	1.2	---	---
Mission Creek	900	12/02/03	10	1.0	7	1.5	---	---
Seven Mile	600	12/01/03	8	1.0	9	1.4	---	---
Thirty Mile	1350	12/01/03	17	2.4	15	2.6	---	---
January								
Fort Yukon	430	12/31/03	12	1.4	11	1.6	---	---
February								
Borealis	1330	1/28/04	23	3.4	15	2.7	25	4.0
Cathedral Creek	1800	No Report	---	---	---	---	---	---
Coal Creek	1000	No Report	---	---	---	---	---	---
Copper Creek	2000	No Report	---	---	3	0.5	---	---
Cresent Creek	2600	No Report	---	---	11	2.0	---	---
Fort Yukon	430	No Report	---	---	12	1.7	---	---
Fossil	1400	1/28/01	21	3.4	14	2.0	26	4.1
Hess Creek	1000	1/29/04	20	3.6	18	2.8	22	3.9
Mission Creek	900	2/02/04	17	2.6	16	2.9	15	3.1
Seven Mile	600	1/29/04	20	3.1	18	2.9	22	3.9
Step Mountain	2850	No Report	---	---	---	---	---	---
Tacoma Bluff	1450	No Report	---	---	---	---	---	---
Thirty Mile	1350	1/29/04	26	5.3	23	4.3	30	6.2
Three Fingers	3350	No Report	---	---	---	---	---	---
Windy Gap	1900	1/28/04	25	5.6	18	3.3	27	4.3
Wolf	1200	1/28/04	21	3.3	16	2.2	23	3.6

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1st

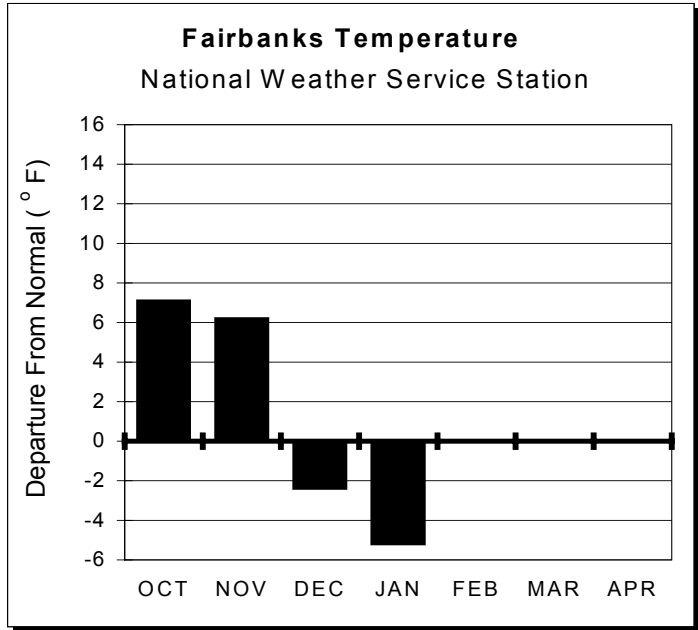
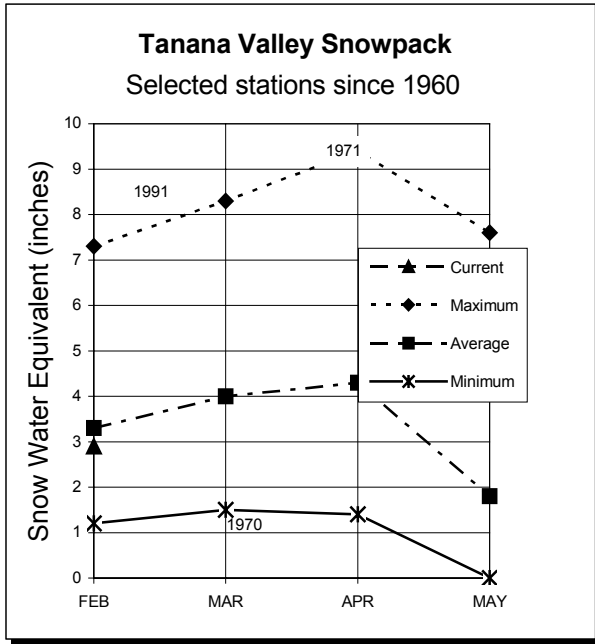
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Atigun Pass**	4800	1/28/04	3.4	4.2	5.9	58
Chandalar Shelf**	3300	1/28/04	3.9	3.2	3.9	100
Fort Yukon	430	No Report	---	1.7	3.8	---
Mission Creek	900	2/04/04	2.9	4.4	4.0	72

**Wyoming shielded gauge

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Yukon Flats	1	107	79

TANANA BASIN*



Current Basin Conditions

The large Tanana Valley has snow courses that vary from 108 percent of normal to 47 percent of normal. The Upper Tanana Valley near Delta is 95 percent of normal, while the percent of normal decreases going south and east of the Gerstle River, 108 percent of normal. Tok Junction snow course is 88 percent of normal.

The Chatanika Basin snow courses are 103 percent of normal, while the Chena Basin measured courses are 92 percent of normal.

The 47 percent of normal snow course is on the far southwest side of the Lower Tanana Valley, Lake Minchumina.

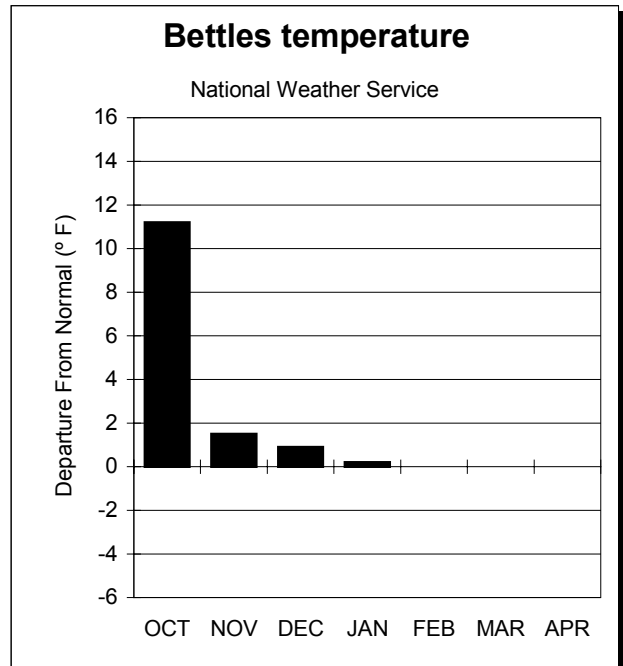
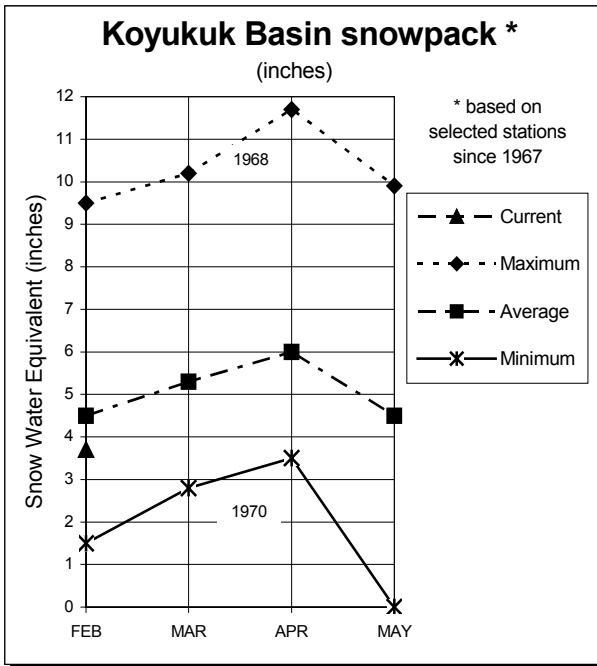
* For further information contact the Natural Resources Conservation Service in Fairbanks or Delta Junction.

Tanana Basin

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE		
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content	
					(inches)				
December									
Caribou Creek	1250	12/04/03	17	2.8	4	1.1	21	3.4	
Caribou Snow Pillow	900	12/04/03	17	2.6	6	1.7	20	3.2	
Chisana	3320	12/05/03	14	2.0	11	1.5	---	---	
Cleary Summit	2230	12/01/03	24	4.0	8	1.8	---	---	
Colorado Creek	700	12/01/03	18	2.3	6	1.1	---	---	
Edgar Creek	2400	12/05/03	12	1.5	0	0.0	---	---	
Fairbanks FO	450	12/01/03	15	1.8	7	1.0	16	1.9	
Faith Creek	1900	12/01/03	20	2.9	7	1.2	---	---	
Fort Greely	1500	11/24/03	10	1.2	2	0.4	---	---	
French Creek	1800	11/28/03	18	2.5	---	---	---	---	
Gerstle River	1200	11/24/03	12	1.0	1	0.2	---	---	
Gold King	1700	12/05/03	9	1.1	0	0.0	---	---	
Lost Creek	3030	12/02/03	16	2.1	15	2.1	---	---	
Paradise Hill	2200	12/01/03	10	1.1	4	0.6	---	---	
Ptarmigan Airstrip	2400	12/05/03	8	1.0	0	0.0	---	---	
Rock Creek Bottom	2250	11/28/03	12	1.5	0	0.0	---	---	
Rock Creek Ridge	2600	11/29/03	12	1.8	0	0.0	---	---	
Shaw Creek Flats	980	11/29/03	10	0.6	1	0.1	---	---	
Upper Wood River	2990	12/05/03	15	1.8	0	0.0	---	---	
January									
Bonanza Creek	1150	1/05/04	17	2.9	5	0.6	16	2.9	
Caribou Creek	1250	12/29/03	18	3.4	7	1.5	17	3.0	
Caribou Snow Pillow	900	12/29/03	16	2.9	9	2.1	17	3.0	
Chisana	3320	No Report			13	2.0	---	2.3	
Lost Creek	3030	12/30/03	16	2.8	17	3.3	---	---	
February									
Bonanza Creek	1150	2/03/04	19	3.8	7	0.7	21	4.1	
Caribou Creek	1250	2/02/04	21	4.2	10	2.2	22	3.9	
Caribou Snow Pillow	900	2/02/04	21	4.1	12	2.4	22	3.8	
Chisana	3320	2/04/04	20	3.5	---	---	---	---	
Cleary Summit	2230	1/29/04	27	5.4	14	2.9	27	5.4	
Colorado Creek	700	1/30/04	21	3.6	12	2.0	31	3.8	
Edgar Creek	2400	1/30/04	23	4.2	8	1.5	---	---	
Fairbanks FO	450	1/30/04	19	3.2	13	2.2	21	3.5	
Faith Creek	1900	1/29/04	22	3.8	15	2.6	24	3.9	
Fielding Lake	3000	1/27/04	29	7.0	21	4.7	37	8.4	
Fort Greely	1500	1/30/04	20	3.1	6	0.9	15	2.7	
French Creek	1800	1/29/04	23	4.2	8	1.1	24	5.1	
Gerstle River	1200	1/28/04	21	2.8	8	1.2	17	2.6	
Gold King	1700	1/30/04	19	3.1	6	1.0	---	---	
Granite Creek	1240	1/31/04	17	3.5	8	1.9	17	2.8	
Jatahmund Lake	2180	2/02/04	15	1.6	14	2.2	16	2.3	
Kantishna	1550	1/28/04	26	4.8	13	2.3	---	---	
Lake Minchumina	730	1/28/04	10	1.4	10	1.2	19	3.2	
Mentasta Pass	2430	1/28/04	16	2.9	19	3.5	24	4.8	
Paradise Hill	2200	1/29/04	16	2.8	8	0.8	---	---	
Ptarmigan Airstrip	2400	1/30/04	19	3.0	7	1.2	---	---	
Rock Creek Bottom	2250	1/29/04	18	3.5	5	0.6	20	3.7	
Rock Creek Ridge	2600	2/02/04	16	2.8	5	0.5	24	4.3	
Shaw Creek Flats	980	1/30/04	16	2.6	7	0.9	15	2.6	
Stampede	1800	1/28/04	20	3.3	6	0.6	---	---	
Tok Junction	1650	1/28/04	16	2.3	15	2.0	17	2.6	
Upper Wood River	2990	1/30/04	20	3.6	12	2.1	---	---	

WESTERN INTERIOR BASINS*



Current Basin Conditions

Koyukuk

The five Koyukuk Basin snow courses are 84 percent of normal and 106 percent of last year, with the range having Disaster Creek water content 63 percent of normal and Bonanza Forks at 100 percent of normal.

Gobbler's Knob precipitation gauge, 60 miles south of Coldfoot, has received 8.1 inches of precipitation since October 1st, approximately 120 percent of normal.

Kuskokwim

The snow course water contents vary across the Basin, from 47 percent of normal at Lake Minchumina to 113 percent of normal at Purkeypile Mine. The Basin percent of normal of five snow courses is 88 percent.

Lower Yukon

No report of snow measurements from the Innoko Basin since December 1st.

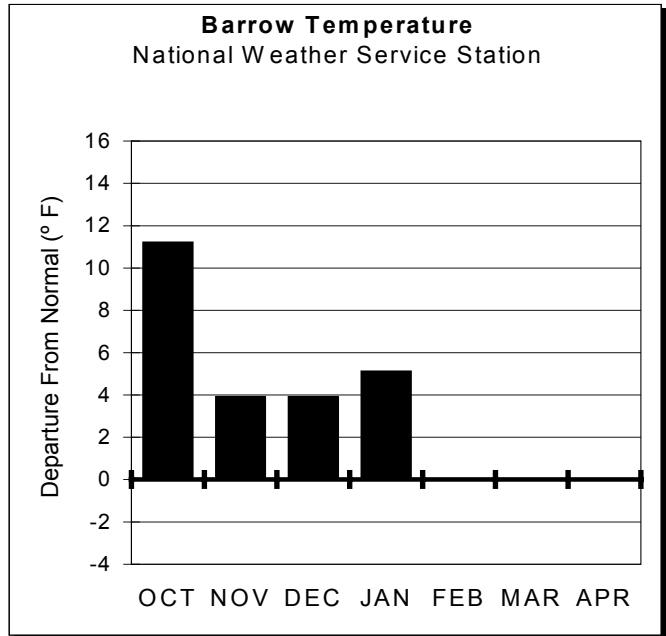
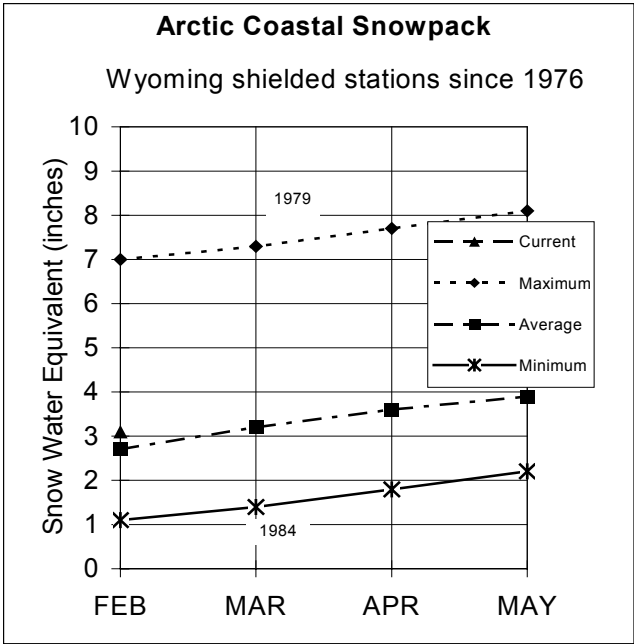
* For further information contact the Natural Resources Conservation Service in Anchorage.

Western Interior Basins

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
December								
Koyukuk								
Bettles Field	640	11/28/03	22	3.6	11	1.2	20	3.1
Bonanza Forks	1200	12/01/03	20	3.8	--	--	---	---
Coldfoot	1040	12/01/03	19	3.5	14	2.1	27	5.1
Disaster Creek	1550	12/02/03	12	2.0	11	1.0	---	---
Table Mountain	2200	12/02/03	12	2.0	11	1.5	---	---
Kuskokwim								
McGrath	340	12/05/03	12	2.0	8	2.7	---	---
Lower Yukon								
Grouch Creek	220	No Report			0	0.0	---	---
Holikachuk	100	12/04/03	19	3.2	17	4.5	---	---
Horsefly Creek	180	12/04/03	21	3.6	0	0.0	---	---
Menotl Creek	380	12/04/03	21	4.0	12	3.5	---	---
Middle Innoko	150	12/04/03	15	2.3	10	3.0	---	---
Upper Innoko	180	12/04/03	15	2.3	15	4.0	---	---
Wapoo Hills	220	12/04/03	20	3.8	15	4.0	---	---
Yankee Slough	100	12/04/03	24	4.4	15	4.0	---	---
Yetna River	120	12/04/03	17	2.9	6	2.0	---	---
February								
Koyukuk								
Bettles Field	640				17	2.9	27	5.2
Bonanza Forks	1200	1/29/04	21	4.3	18	3.5	21	4.3
Coldfoot	1040	1/29/04	21	4.6	18	3.5	27	5.1
Disaster Creek	1550	1/30/04	14	1.9	16	3.2	18	3.0
Dunkle Hills	2700	1/29/04	15	3.5	---	---	---	---
Kaldoyeit	750	No Report			14	2.3	---	---
Kanuti Chalatna	670	No Report			11	1.8	---	---
Kanuti Kilolitna	550	No Report			8	1.5	---	---
Minnkokut	580	No Report			19	3.6	---	---
Nolitna	560	No Report			12	2.0	---	---
Table Mountain	2200	1/30/04	13	2.4	16	2.9	22	3.4
Taiholman	540	No Report			1	0.2	---	---
Kuskokwim								
Lake Minchumina	730	1/28/04	10	1.4	10	1.2	19	3.2
McGrath	340	2/04/04	22	3.2	---	---	26	4.4
Purkeypile Mine	2030	1/28/04	23	4.4	6	0.8	20	3.9
Stampede	1800	1/28/04	20	3.3	---	---	---	---
Telaquana Lake	1550	1/29/04	19	3.8	5	1.1	18	3.4
Upper Twin Lakes	2000	1/29/04	28	6.5	2	0.3	25	6.1
Lower Yukon								
Grouch Creek	220	No Report			0	0.0	---	---
Holikachuk	100	No Report			18	4.7	---	---
Horsefly Creek	180	No Report			0	0.0	---	---
Innoko Cabin	200	No Report			---	---	---	---
Menotl Creek	380	No Report			21	4.6	---	---
Middle Innoko	150	No Report			21	4.3	---	---
Upper Innoko	180	No Report			24	5.2	---	---
Wapoo Hills	220	No Report			15	4.2	---	---
Yankee Slough	100	No Report			21	4.8	---	---
Yetna River	120	No Report			--	--	---	---

ARCTIC AND KOTZEBUE SOUND*



Current Basin Conditions

Arctic

One precipitation gauge has been measured this month along the northern coast, Barrow, which is 114 percent of normal. The Atigun Pass, Atigun Camp and Imnaviat Creek precipitation gauges north of the Brooks Range, along the Dalton Highway, are all much below normal.

Kotzebue

The Red Dog Mine precipitation is 69 percent of normal, since October 1st.

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

Arctic and Kotzebue Sound

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Kugarak	225	No Report			---	---	---	---

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

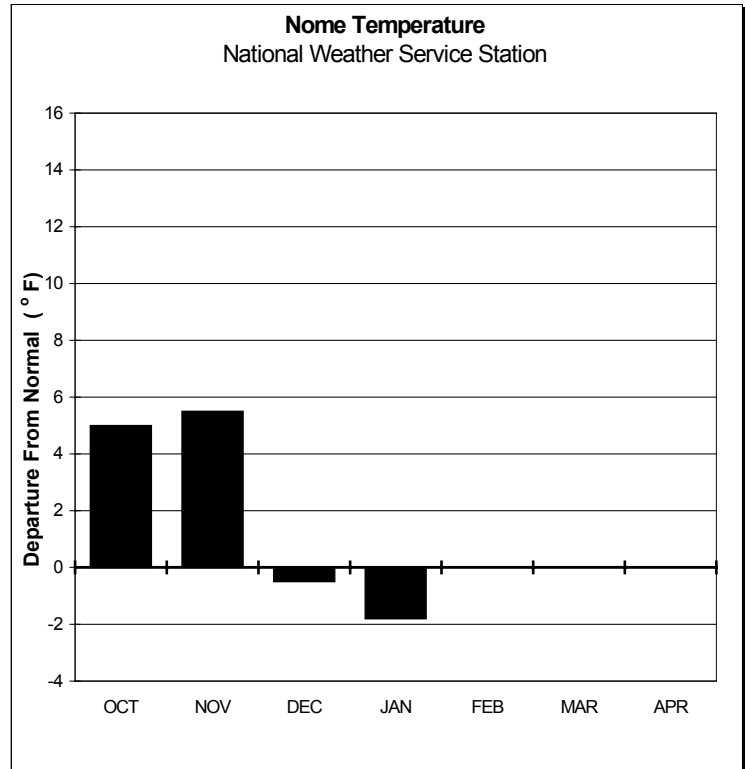
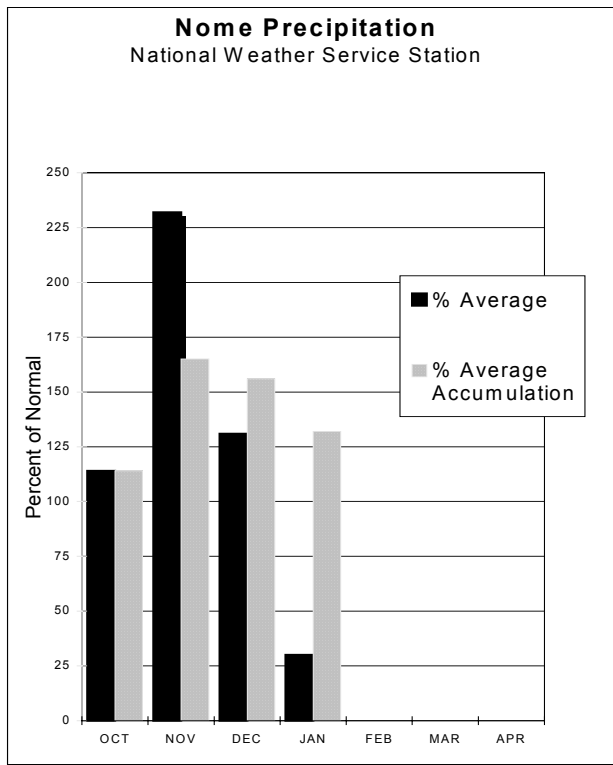
Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Arctic						
Atigun Camp	3400	1/28/04	1.8	1.9	3.9	46
Atigun Pass	4800	1/28/04	3.4	4.2	5.9	58
Barrow	25	2/02/04	2.5	1.4	2.2	114
Imnaviat Creek	3050	1/31/04	1.7	3.0	2.9	59
Prudhoe Bay	30	No Report		---	2.9	---
Kotzebue Sound						
Kivalina	50	1/31/04	3.5	2.5	---	---
Red Dog**	950	1/31/04	3.4	3.8	4.9	69

** Wyoming Shielded Gauge

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Arctic Coast	1	179	114
Dalton Highway	2	71	52

NORTON SOUND/SOUTHWEST DELTA/BRISTOL BAY*



Current Basin Conditions

Norton Sound

The Rocky Point SNOTEL site has received 4.7 inches since October 1st, 94 percent of last year. Currently there is 8 inches of snow on the ground.

The Pargon Creek SNOTEL site is showing 5 inches of snow on the ground, even though, two weeks earlier there was 12 inches. The decrease of 7 inches is due to the snow being blown away two weeks ago by winds that were near 50 miles per hour.

Southwest Delta/Bristol Bay

Permanent snow started the 10th of November in Bethel. The accumulative average precipitation since October 1st is 4.5 inches.

The Port Alsworth snow course is 97 percent of normal water content. Brooks Camp has 9 inches of snow with an estimated 1.8 inches of water content.

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

Norton Sound / Southwest Delta / Bristol Bay

SNOWPACK DATA

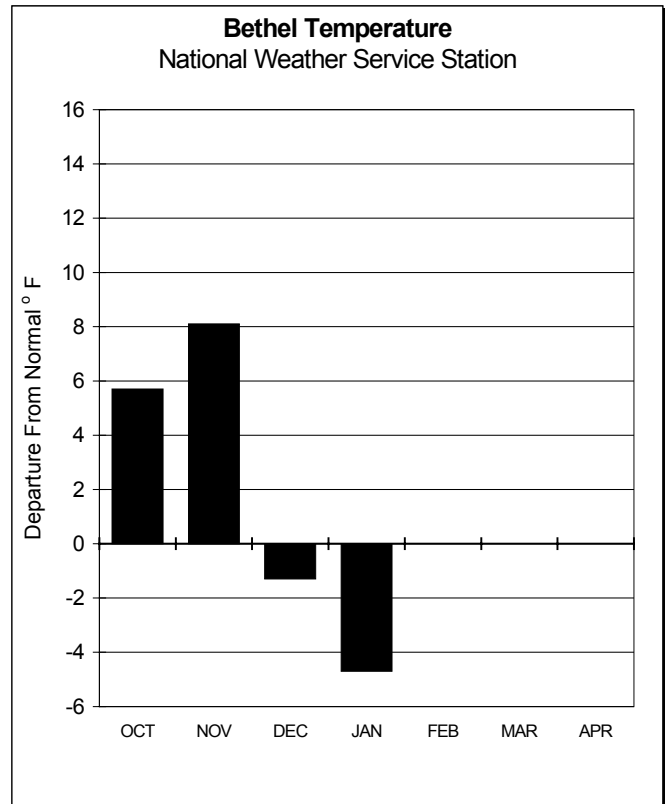
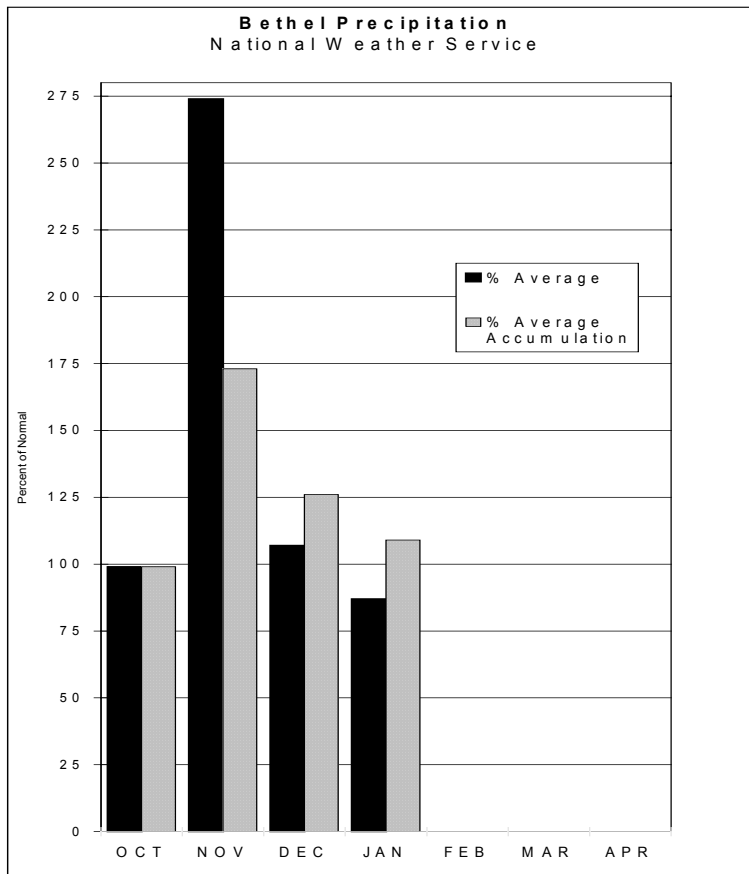
Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
Bristol Bay								
Brooks Camp	150	1/30/04	9	1.8	---	---	38	8.9
Fishtrap Lake	1800	1/29/04	29	6.8	11	3.2	---	---
Pargon Creek	100	2/01/04*	5	1.2	11	2.8	---	---
Port Alsworth	270	1/30/04	18	3.4	0	0.0	---	---
Rocky Point	250	2/01/04*	8	2.0	1	0.3	---	---
Three Forks	900	1/30/04	33	8.2	---	---	---	---
Upper Twin Lakes	2000	2/02/04	16	2.9	---	---	---	---

*Estimate and Wind Effected

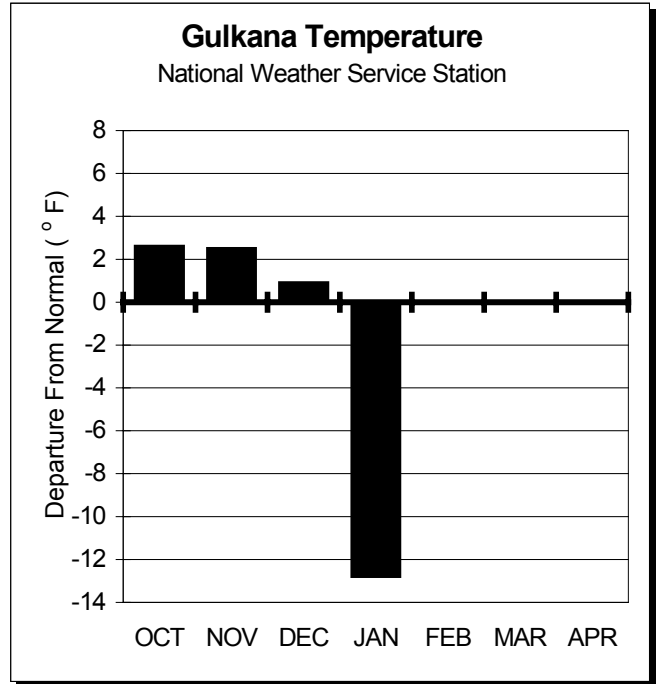
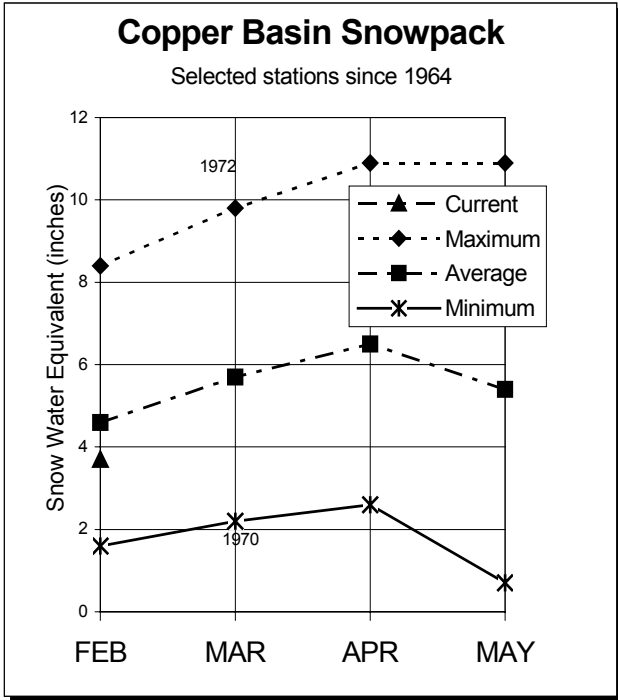
PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Pargon Creek	100	No Report		4.2	---	---
Rocky Point	500	1/31/04	4.7	5.0	---	---



COPPER BASIN*



Current Basin Conditions

The northern part of the Copper Basin, along the Richardson Highway and the Tok Cutoff, are significantly below normal. Chistochina is at 53 percent of normal and Haggard Creek is at 58 percent of normal water content. South, at Kenny Lake, the snow course measured 131 percent of normal. These are the exceptions, with most of the snow courses varying from 70 percent to near 100 percent of normal water content.

The foot of the Alaska Range snow courses in the Copper Basin are 76 percent of normal and 125 percent of last year.

On the west side of the Basin, near the Talkeetna Mountains, the three snow courses used to indicate the percent of normal show 94 percent of normal and 89 percent of last year.

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

Copper Basin

SNOWPACK DATA

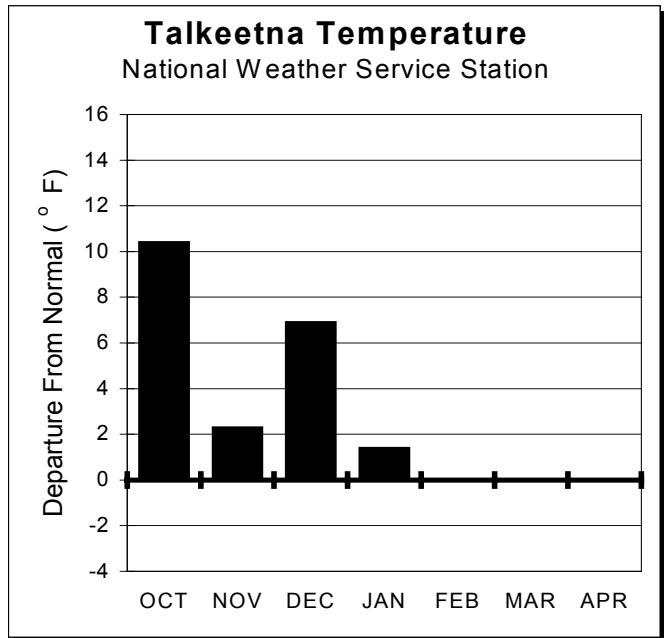
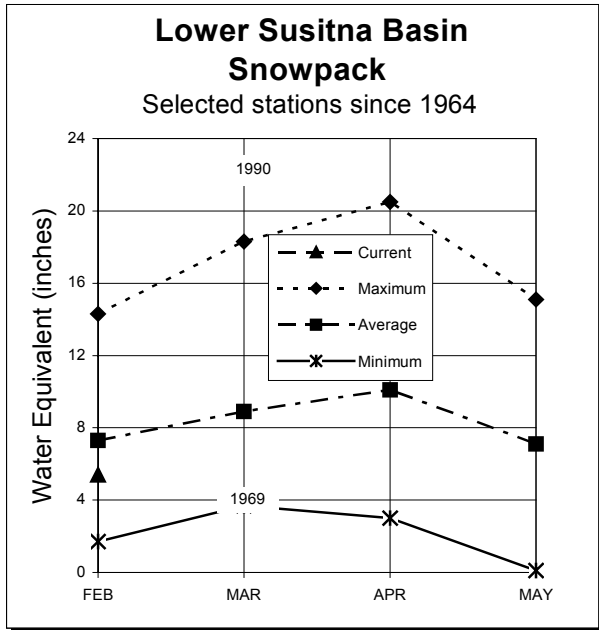
Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth (inches)	Water Content	Snow Depth	Water Content
December								
Chokosna	1550	12/03/03	15	2.1	---	---	---	---
Kenny Lake School	1300	12/01/03	9	1.0	--	--	--	---
Lake Louise	2400	11/25/03	12	1.7	7	1.2	--	---
Little Nelchina	2650	11/25/03	12	1.1	12	1.1	--	---
May Creek	1610	12/05/03	21	3.5	1	0.2	---	---
Tazlina	1225	12/01/03	11	1.1	--	---	--	---
Tolsona Creek	2000	12/01/03	11	1.3	10	2.6	--	---
January								
Chokosna	1550	12/31/03	21	3.6	6	0.5	---	---
Dadina Lake	2160	12/31/03	26	4.2	---	---	19	3.0
Horsepasture Pass	4300	12/31/03	24	4.1				
Kenny Lake School	1300	12/31/03	18	2.9	14	2.1	13	2.2
May Creek	1610	1/05/04	25	4.6	8	1.2	---	---
Monsoon Lake	3100	12/31/03	19	2.8	---	---	22	3.8
Sanford River	2280	12/31/03	14	2.1	---	---	18	3.2
St. Anne Lake	1990	12/31/03	15	2.4	---	---	---	---
Tazlina	1225	12/31/03	16	3.2	14	2.3	---	---
Twin Lakes	2400	No Report			---	---	20	3.7
February								
Chistochina	2170	1/27/04	14	1.6	16	3.0	18	3.0
Dadina Lake	2160	2/01/04	26	4.4	16	3.1	24	4.1
Fielding Lake	3000	1/27/04	29	7.0	21	4.7	37	8.4
Haggard Creek	2540	1/27/04	19	2.6	25	4.9	24	4.5
Horsepasture Pass	4300	2/02/04	27	4.7	34	6.5	24	4.6
Kenny Lake School	1300	2/02/04	18	3.4	19	3.8	14	2.6
Lake Louise	2400	1/30/04	21	3.0	15	2.7	20	3.3
Little Nelchina	2650	1/30/04	21	4.2	14	1.7	22	3.8
Mentasta Pass	2430	1/28/04	16	2.9	19	3.5	24	4.8
Monsoon Lake	3100	2/02/04	22	3.4	20	3.6	25	4.7
Paxson	2650	1/27/04	23	4.3	18	3.2		
Sanford River	2280	2/01/04	20	3.2	13	2.6	24	4.2
St. Anne Lake	1990	2/02/04	18	3.0	15	2.9	21	4.0
Tazlina	1225	2/02/04	16	2.8	18	2.9	---	---
Tolsona Creek	2000	2/02/04	17	3.1	18	3.8	19	3.2
Tsaina River	1650	1/29/04	38	7.4	45	10.3	50	12.5
Twin Lakes	2400	2/02/04	16	2.9	17	3.2	26	4.9
Upper Tsaina River	1750	1/29/04	49	13.4	New		---	---
Worthington Glacier	2100	1/29/04	53	14.9	53	14.6	62	16.6

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Alaska Range	4	117	75
Basin Floor*	6	93	87
Chugach Range	3	89	81
Talkeetna Mountains	3	89	94
Wrangell Mountains	2	133	92

*At the foot of the Alaska Range.

MATANUSKA - SUSITNA BASINS*



Current Basin Conditions

The Peters Hills snow courses are 66 percent of normal water content and 152 percent of last year. The Little Susitna Basin is 78 percent of normal water content and 172 percent of last year. The west side of the Susitna Basin, as indicated by Alexander Lake and Skwentna, are 72 percent of normal water content.

Along the Parks Highway, Willow is near normal at 95 percent, while proceeding north, Talkeetna is 74 percent of normal water content.

The Upper Susitna Basin has Monahan Flat at 84 percent and Clearwater at 71 percent of normal water content.

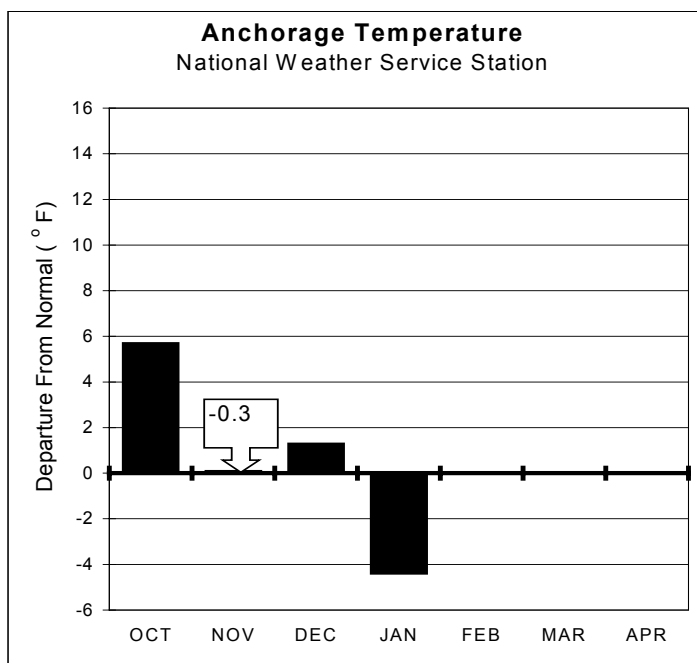
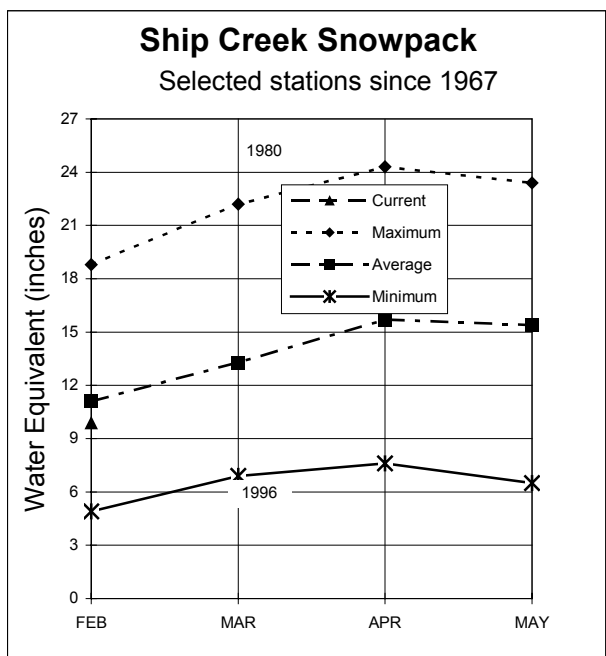
* For more information contact the Natural Resources Conservation Service in Wasilla.

Matanuska - Susitna Basins

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
			(inches)					
December								
Archangel Road	2200	11/28/03	53	10.6	0	0.0	--	---
Blueberry Hill	1200	12/01/03	29	5.8	6	1.4	--	---
Chelatna Lake	1450	12/02/03	17	2.8	6	1.5	--	---
Denali View	700	12/01/03	23	4.0	5	1.0	--	---
Dutch Hills	3100	12/02/03	41	8.4	33	9.9	--	---
E. Fork Chulitna	1800	12/01/03	28	6.0	9	2.6	--	---
Eldridge Glacier	3400	12/02/03	9	1.4	33	9.5	--	---
Fishhook Basin	3300	12/02/03	51	10.6	16	5.3	--	---
Halfway Slough	350	12/01/03	19	3.0	3	0.4	--	---
Independence Mine	3550	12/02/03	55	11.3	23	6.8	--	---
Lake Louise	2400	11/25/03	12	1.7	7	1.2	--	---
Little Susitna	1700	12/01/03	42	5.9	0	0.0	--	---
Moose Creek Ranch	450	11/25/03	17	2.1	0	0.0	--	---
Nugget Bench	2010	12/02/03	32	6.4	10	2.9	--	---
Ramsdyke Creek	2220	12/02/03	44	8.8	16	4.6	--	---
Sheep Mountain	2900	11/25/03	13	1.3	16	2.2	--	---
Susitna Valley High	375	12/01/03	20	2.9	3	0.4	--	---
Talkeetna Airport	350	12/01/03	17	2.6	1	0.2	--	---
Tokositna Valley	850	12/02/03	34	6.8	7	1.5	--	---
West Fork Yentna	950	12/02/03	7	1.1	--	---	--	---
Willow Airstrip	200	12/01/03	26	3.7	4	0.9	--	---
January								
Clearwater Lake	2650	12/31/03	19	2.7	---	---	20	3.4
Fishhook Basin	3300	12/31/03	41	10.3	22	6.6	45	11.4
Horsepasture Pass	4300	12/31/03	24	4.1	---	---	20	3.7
Independence Mine	3550	12/31/03	45	11.3	30	8.3	54	15.0
Square Lake	2950	12/31/03	14	2.0	---	---	15	2.5
February								
Alexander Lake	160	1/28/04	27	6.1	21	3.8	37	8.6
Archangel Road	2200	1/28/04	33	8.5	13	2.2	43	12.1
Blueberry Hill	1200	1/28/04	32	7.7	16	2.9	49	11.5
Chelatna Lake	1650	1/29/04	31	7.1	11	2.3	36	8.3
Clearwater Lake	2650	2/02/04	19	3.0	18	2.7	24	4.2
Curtis Lake	2850	2/02/04	20	3.1	21	3.2	---	---
Denali View	700	1/28/04	27	6.3	11	1.8	42	9.6
Dutch Hills	3100	1/29/04	44	11.5	37	12.2	69	19.6
E. Fork Chulitna	1800	1/28/04	33	7.6	23	5.6	45	10.5
Eldridge Glacier	3400	1/29/04	6	1.8	32	7.7	---	---
Fishhook Basin	3300	2/03/04	47	12.4	24	8.2	51	15.4
Fog Lakes	2120	2/02/04	20	3.2	13	2.5	25	4.5
Halfway Slough	350	1/28/04	22	4.3	6	1.1	---	---
Independence Mine	3550	2/03/04	52	14.7	33	10.8	61	18.1
Lake Louise	2400	1/30/04	21	3.0	15	2.7	20	3.3
Little Susitna	1700	1/28/04	31	7.3	12	2.0	37	9.6
Monahan Flat	2710	2/02/04	27	5.1	24	4.3	31	6.1
Moose Creek Ranch	450	2/02/04	15	3.0	5	0.9	---	---
Nugget Bench	2010	1/29/04	32	7.7	13	3.2	45	10.9
Ramsdyke Creek	2220	1/29/04	42	10.5	24	7.2	61	16.3
Sheep Mountain	2900	1/30/04	22	3.9	21	4.0	23	4.6
Skwentna	160	1/28/04	28	6.1	18	3.2	37	8.5
Square Lake	2950	2/03/04	19	3.0	12	2.5	19	3.2
Susitna Valley High	500	1/28/04	22	4.2	7	1.0	34	6.8
Talkeetna	350	1/28/04	19	4.0	5	0.5	28	6.2
Tokositna Valley	850	1/29/04	41	10.0	20	3.5	55	13.6
Tyone River	2500	2/03/04	25	4.0	20	3.7	21	3.4
Upper Oshetna River	3150	2/02/04	11	2.0	---	---	---	---
Upper Sanona Creek	3100	2/02/04	23	3.6	---	---	---	---
West Fork Yentna	950	1/29/04	44	11.0	7	1.3	---	---
Willow Airstrip	200	1/28/04	25	5.4	11	2.5	26	5.7
Ward Lake	2700	2/03/04	31	5.0	22	3.5	---	---

NORTHERN COOK INLET*



Current Basin Conditions

At 6.4 inches of water content, Kincaid Park snow course is 178 percent of normal snow water content. South Fork Campbell snow course, at the 1200 foot elevation, measured 5.7 inches of water content, 114 percent of normal.

At the head of the South Fork of Ship Creek, the Indian Pass snow course is estimated to have 13.9 inches of water content, 83 percent of normal. Portage Valley snow course has 15.1 inches of water content and is 145 percent of normal.

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

Northern Cook Inlet

SNOW PACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
December								
Anchorage Hillside	2080	12/01/03	18	2.5	1	0.3	--	---
Kincaid Park	250	12/02/03	16	2.5	0	0.0	--	---
Mt. Alyeska	1540	12/12/03	48	7.6	1	0.1	--	---
Point Mackenzie	200	11/28/03	18	2.2	0	0.0	--	---
Portage Valley	50	11/28/03	13	1.6	0	0.0	--	---
South Campbell Creek	1200	12/01/03	15	2.0	0	0.0	--	---
January								
Indian Pass	2350	1/15/04	50	13.6	18	4.1	50	13.9
Kincaid Park	250	1/02/04	25	5.1	10	2.3	14	2.6
Point Mackenzie	200	12/31/03	18	4.0	---	---	16	3.5
Portage Valley	50	12/31/03	43	11.9	28	6.4	---	---
February								
Anchorage Hillside	2080	1/30/04	32	7.9	18	4.0	30	7.1
Indian Pass	2350	1/31/04	50	13.9	24	6.1	57	16.8
Kincaid Park	250	2/03/04	24	6.4	0	0.0	17	3.4
Moraine	2100	1/31/04	22	5.3	13	3.3	---	---
Point Mackenzie	200	1/28/04	22	4.3	10	1.6	19	4.3
Portage Valley	50	1/30/04	48	15.1	10	3.3	33	10.4
South Campbell Creek	1200	1/30/04	26	5.7	14	3.0	22	5.0

PRECIPITATION DATA

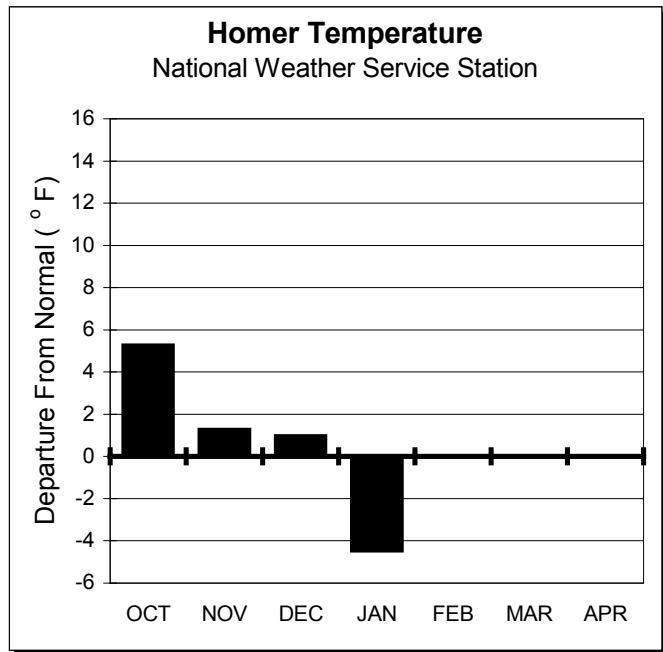
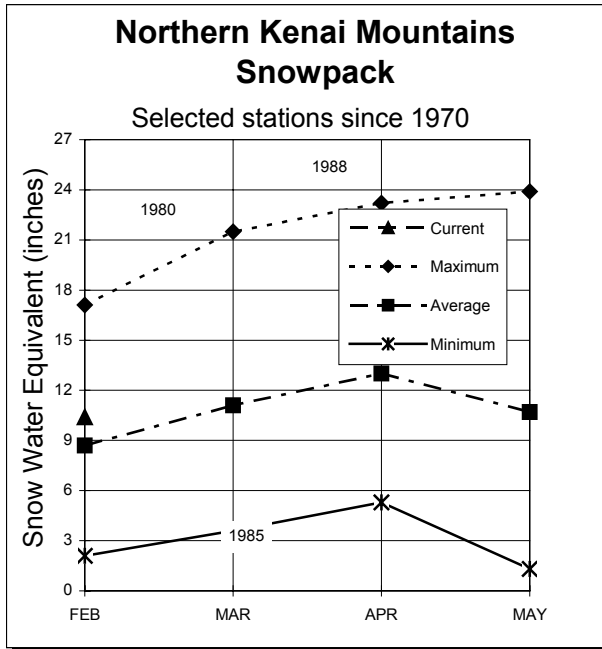
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Indian Pass	2350	1/31/04	17.0	17.1	18.1	94
Moraine	2100	1/31/04	7.8	8.1	---	---
Mt. Alyeska	1540	1/19/04	31.4	47	28.3	111
Point Mackenzie	200	1/28/04	7.4	5.0	6.5	114

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Campbell Creek	2	194	112
Ship Creek	2	165	89
Turnagain Arm	1	129	86

KENAI PENINSULA*



Current Basin Conditions

The Northern Kenai Mountains have at lower elevations a much higher percent of normal water content than at higher elevations. Moose Pass, at the 700 foot elevation, is 183 percent of normal water content. Turnagain Pass, at 1800 feet, has an estimated 19.9 inches of water content, 86 percent of the normal. Overall, the Kenai Mountains are 116 percent of normal water content and 201 percent of last year.

The northern Kenai Flats shows the Kenai Moose Pens SNOTEL site with 27 inches of snow and 5.9 inches of water content, 179 percent of normal.

Eleven miles southeast of Homer, at McNeil Canyon School, the snow depth is 32 inches, with 8.7 inches of water content, 122 percent of normal.

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

Kenai Peninsula

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
			(inches)					
December								
Bertha Creek	950	12/03/03	12	1.4	0	0.0	--	---
Bridge Creek	1300	11/28/03	8	0.9	0	0.0	--	---
Cooper Lake	1200	12/02/03	18	2.8	0	0.0	--	---
Demonstration Forest	780	11/28/03	6	0.7	0	0.0	--	---
Grouse Creek Divide	700	12/02/03	13	1.8	0	0.0	29	7.6
Jean Lake	620	12/02/03	12	1.5	0	0.0	--	---
Kenai Summit	1390	12/02/03	16	2.0	0	0.0	--	---
McNeil Canyon	1320	11/28/03	8	1.1	0	0.0	21	3.9
Moose Pass	700	12/02/03	12	1.5	0	0.0	--	---
Nuka Glacier	1250	12/05/03	11	3.0	0	0.0	--	---
Snug Harbor Road	500	12/02/03	10	1.6	0	0.0	--	---
Summit Creek	1400	12/02/03	16	2.0	0	0.0	23	5.6
January								
Bertha Creek	950	12/27/03	39	8.7	25	5.8	33	8.6
Cooper Lake	1200	12/30/03	49	11.8	22	3.5	28	6.9
Grouse Creek Divide	700	12/30/03	30	6.8	16	3.1	32	8.0
Jean Lake	620	12/30/03	26	5.9	8	1.1	---	---
Kenai Moose Pens	300	12/31/03	27	5.1	6	1.3	13	2.5
Kenai Summit	1390	12/26/03	32	6.7	21	4.7	31	7.3
Moose Pass	700	12/26/03	28	5.3	20	5.6	13	3.0
Nuka Glacier	1250	12/30/03*	45	10.2	28	6.2	---	---
Snug Harbor Road	500	12/30/03	27	7.0	9	1.0	12	1.9
Summit Creek	1400	12/26/03	28	5.7	15	2.9	26	6.4
Turnagain Pass	1880	1/15/04	69	18.4	42	12.3	70	19.1
February								
Bertha Creek	950	1/30/04	43	12.9	22	6.8	43	11.6
Bridge Creek	1300	2/02/04	33	7.2	12	3.5	32	7.8
Cooper Lake	1200	2/01/04	50	15	21	4.8	45	12.0
Demonstration Forest	780	2/02/04	24	4.8	10	2.5	23	5.7
Grandview	1100	1/26/04	65	21.0	40	12.6	64	18.9
Grouse Creek Divide	700	2/01/04	38	9.8	21	5.8	41	11.5
Jean Lake	620	2/01/04	31	7.0	9	1.1	15	3.1
Kenai Moose Pens	300	1/31/04*	27	5.9	6	1.7	15	3.3
Kenai Summit	1390	1/28/04	37	9.8	22	6.0	39	9.9
McNeil Canyon	1320	1/31/04*	32	8.7	13	4.6	31	7.1
Moose Pass	700	1/28/04	31	8.4	8	3.2	18	4.6
Nuka Glacier	1250	1/31/04*	53	14.4	19	4.8	61	24.2
Port Graham	300	1/31/04*	15	4.1	1	0.2	---	---
Snug Harbor Road	500	2/01/04	33	8.8	8	2.1	17	3.6
Summit Creek	1400	1/28/04	31	7.8	16	4.0	33	8.2
Turnagain Pass	1880	1/31/04	75	19.9	50	15.4	81	23.2

*Estimate

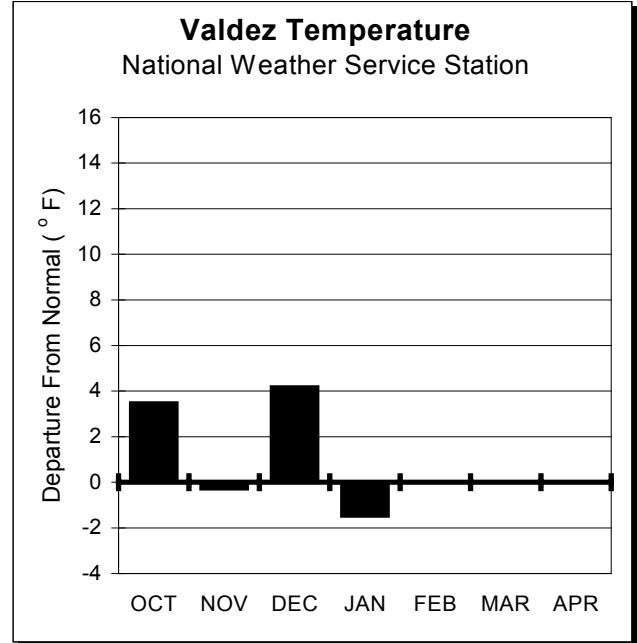
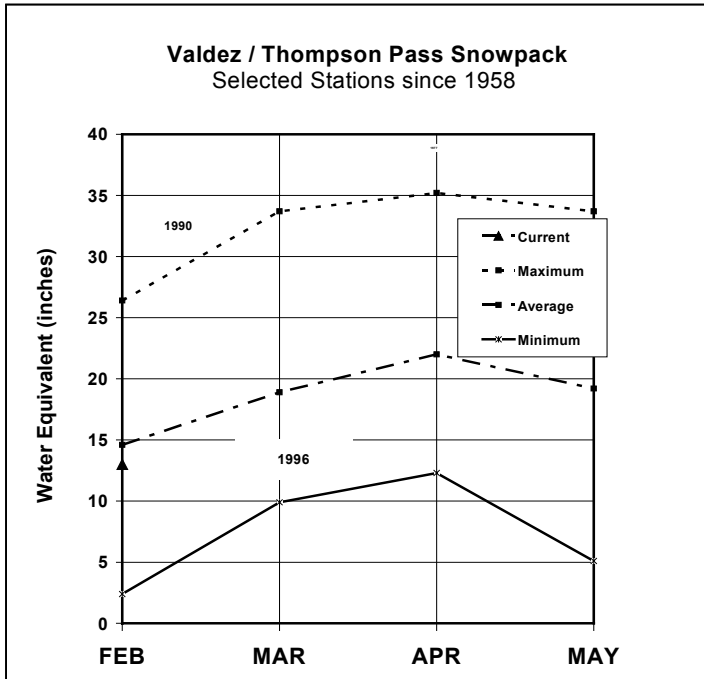
PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Cooper Lake	1200	1/31/04	28.3	37.5	17.9	158
Grandview	1100	1/31/04	31.3	52.4	27.1	116
Grouse Creek Divide	700	1/31/04	29.1	51.1	25.8	113
Kenai Moose Pens	300	1/31/04	8.8	5.6	6.3	140
McNeil Canyon	1320	1/31/04	14.0	20.4	11.3	124
Nuka Glacier**	1250	1/31/04	40.5	89.3	40.3	101
Summit Creek	1400	1/31/04	12.8	18.7	12.5	102
Turnagain Pass	1880	1/31/04	28.4	46.9	28.9	98

* Estimate **Wyoming Shielded gauge

WESTERN GULF*



Current Basin Conditions

The snow water content at Worthington Glacier snow course is essentially the same as last year, 90 percent of normal. The Lowe River snow course is 106 percent of normal, and the Valdez snow course is 82 percent of normal water content. Across the bay from Valdez, the Sugarloaf Mountain snow course above the Solomon Gulch Hydroelectric Power Plant is 86 percent of normal.

The new SNOTEL site, Upper Tsaina River, has 49 inches of snow depth with 13.4 inches of snow water content.

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

Western Gulf

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth (inches)	Water Content	Snow Depth	Water Content
December								
Grouse Creek Divide	700	12/02/03	13	1.8	0	0.0	16	2.8
Nuka Glacier	1250	12/05/03	11	3.0	0	0.0	--	---
January								
Grouse Creek Divide	700	12/30/03	30	6.8	16	3.1	32	8.0
Sugarloaf Mountain	550	1/04/04	42	12.6	40	4.9	49	12.2
Upper Tsaina River	1750	12/31/04	37	8.9	new		---	---
February								
Exit Glacier	400	No Report			23	7.4	48	11.7
Grouse Creek Divide	700	2/01/04	39	9.8	21	5.8	41	11.5
Lowe River	425	1/29/04	44	11.7	35	9.6	46	11.8
Nuka Glacier	1250	1/31/04*	53	14.4	19	4.8	61	24.2
Sugarloaf Mountain	550	1/28/04	50	15.6	33	8.8	65	18.2
Tsaina River	1650	1/29/04	38	7.4	45	10.3	50	12.5
Upper Tsaina River	1750	1/29/04	49	13.4	new		---	---
Valdez	50	1/29/04	37	9.8	24	6.1	45	11.9
Worthington Glacier	2100	1/29/04	53	14.9	53	14.6	62	16.6

*Estimate

PRECIPITATION DATA

INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Grouse Creek Divide	700	1/31/04	29.1	51.1	25.8	113
Nuka Glacier**	1250	1/31/04	40.5	89.3	40.3	101
Solomon Gulch*	30	1/31/04	20.6	33.5	30.5	68
Sugarloaf Mountain	550	1/28/04	25.2	44.6	29.9	84
Upper Tsaina River	1750	1/31/04	17.3	new	---	---

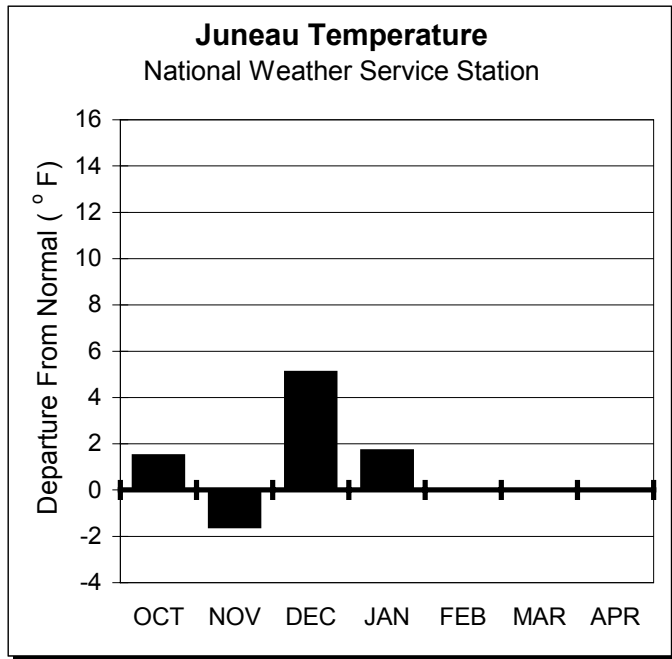
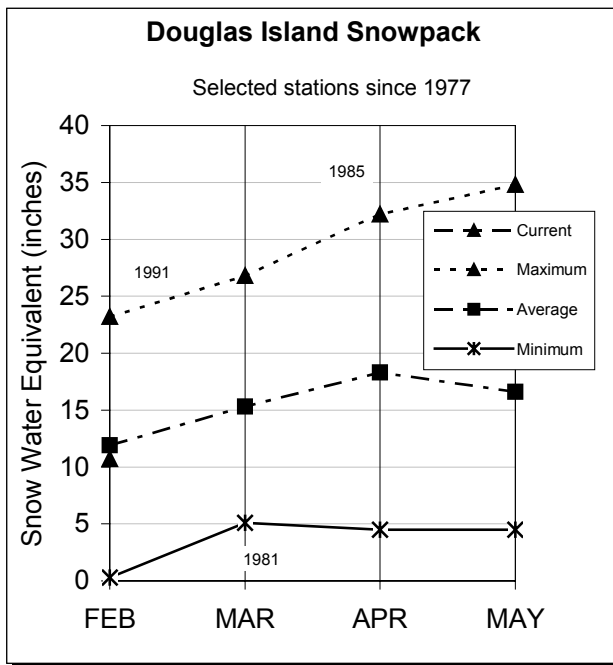
**Wyoming shielded gauge

*Copper Valley Electric Association

WATERSHED SNOWPACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Lowe River (Valdez)	4	133	89

SOUTHEAST*



Current Basin Conditions

The Petersburg Ridge snow course, at 1650 feet, is right at normal snow water content; however, the Petersburg Reservoir snow course, at 550 feet, has very little snow, 4 inches and 0.5 inches water content, 11 percent of normal.

The Long Lake SNOTEL site, above the Snettisham Hydroelectric Power Plant, has 78 inches of snow depth and 24.8 inches of snow water content, 171 percent of last year.

The Moore Creek Bridge snow course, north of Skagway, has 60 inches of snow and 17.4 inches of water content, 127 percent of normal, 242 percent of last year.

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

Southeast

SNOWPACK DATA

Snow Course	Elev. (feet)	Date	THIS YEAR		LAST YEAR		1971-2000 AVERAGE	
			Snow Depth	Water Content	Snow Depth	Water Content	Snow Depth	Water Content
December								
Cropley Lake	1650	11/28/03	45	9.4	--	--	--	---
Eagle Crest	1200	11/28/03	32	6.0	-	--	--	---
Fish Creek	500	11/28/03	14	2.1	--	--	--	---
Long Lake	850	12/01/03	49	12.2	0	0.0	---	---
Moore Creek Bridge	2250	12/01/03	23	4.4	1	0.2	--	---
Petersburg Reservoir	550	12/01/03	22	6.0	0	0.0	--	---
Petersburg Ridge	1650	12/02/03	27	7.0	0	0.0	--	---
January								
Cropley Lake	1650	12/30/03	56	18.5	23	3.5	48	14.1
Eagle Crest	1200	12/30/03	36	9.1	17	2.0	33	9.2
Fish Creek	500	12/30/03	10	2.6	9	0.7	17	3.3
Lake Grace Pass	1900	12/29/03	77	25.3	30	8.7	---	---
Long Lake	850	12/31/03	66	20.8	53	9.8	---	---
Lost Lake	425	12/29/03	36	9.7	0	0.0	---	---
Mint Creek Ridge	1900	12/29/03	72	22.4	29	9.3	---	---
Petersburg Reservoir	550	12/30/03	17	3.6	8	1.3	13	3.3
Petersburg Ridge	1650	12/29/03	40	13.4	18	3.2	40	11.3
Upper Swan Lake	1700	12/29/03	38	10.3	0	0.0	---	---
February								
Cropley Lake	1650	1/29/04	53	19.2	18	5.2	58	18.4
Eagle Crest	1200	1/29/04	34	10.0	7	1.9	41	12.2
Fish Creek	500	1/29/04	7	2.9	4	1.1	20	5.0
Long Lake	850	1/31/04	78	24.8	51	14.5	---	---
Moore Creek Bridge	2250	1/30/04	60	17.4	33	7.2	62	16.9
Petersburg Reservoir	550	2/02/04	4	0.5	4	0.6	17	4.5
Petersburg Ridge	1650	1/30/04	46	17.0	12	3.5	57	16.9

PRECIPITATION DATA

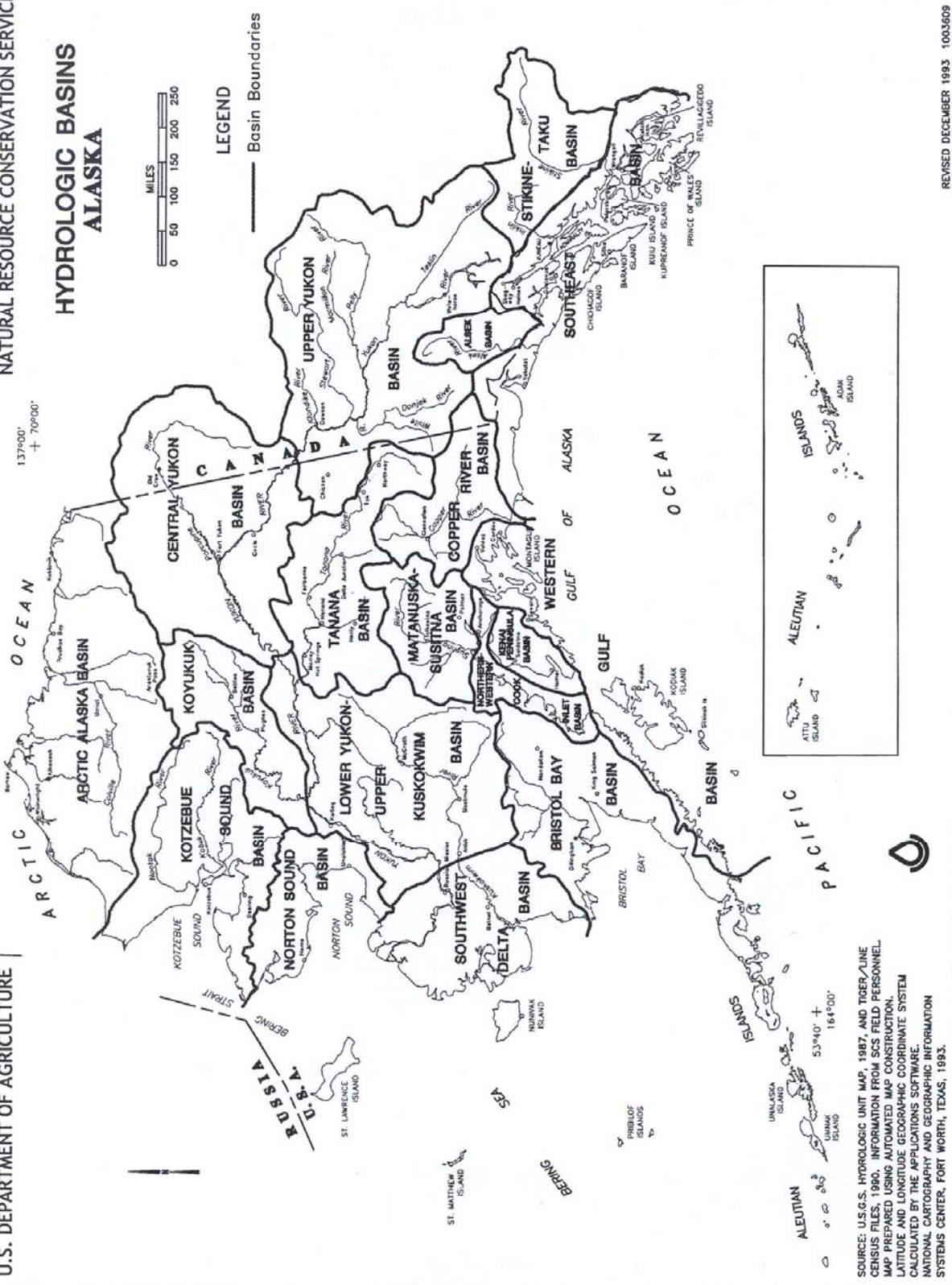
INCHES ACCUMULATED SINCE OCTOBER 1ST

Precipitation Gauge	Elevation (feet)	Date	This Year	Last Year	1971-2000 Ave	% of Average
Long Lake	850	1/31/04	66.2	75.7	77.5	85
Moore Creek Bridge	2250	1/30/04	16.3	---	---	---
Snettisham	25	1/31/04	72.1	79.5	81.6	91
Swan Lake	50	1/31/04	94.8	70.2	65.1	146

WATERSHED SNOW PACK ANALYSIS

Region / River Basin	No. of Courses Averaged	Percent of Last Year	Percent of Average
Douglas Island	3	391	90
Petersburg	2	427	82
Snettisham	1	171	---

HYDROLOGIC BASINS ALASKA



SOURCE: U.S.G.S. HYDROLOGIC UNIT MAP, 1987, AND TIGER/LINE CENSUS FILES, 1980. INFORMATION FROM SCS FIELD PERSONNEL. MAP PREPARED USING AUTOMATED MAP CONSTRUCTION. LATITUDE AND LONGITUDE GEOGRAPHIC COORDINATE SYSTEM CALCULATED BY THE APPLICATIONS SOFTWARE. NATIONAL CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS CENTER, FORT WORTH, TEXAS, 1993.

For further information contact:

NRCS Alaska web site: www.ak.nrcs.gov

Alaska Meteor Burst Communication System (AMBCS) web site: [**ambcs.org**](http://ambcs.org)

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