

Climatology of the United States

No. 20

1971-2000

Station: AUKE BAY, AK

COOP ID: 500464

Climate Division: AK 1

NWS Call Sign:

Elevation: 42 Feet

Lat: 58° 23N

Lon: 134° 39W

Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	30.7	22.4	26.6	55	1981	15	38.0	1981	-12	1965	6	15.3	1982	1192	0	.0	.0	.1	15.3	25.2	1.7
Feb	35.2	24.8	30.0	58	1992	27	40.0	1977	-15	1968	2	14.8	1979	981	0	.0	.0	.1	7.7	21.6	.9
Mar	40.9	28.6	34.8	58	1998	21	39.9	1981	-8	1972	8	28.9	1972	937	0	.0	.0	1.0	2.2	21.5	.2
Apr	49.7	33.7	41.7	71	1995	29	45.2	1993	12	1963	5	35.9	1972	699	0	.0	.1	13.3	@	11.3	.0
May	57.5	40.5	49.0	78+	1993	14	53.9	1993	27	1972	1	44.2	1971	496	0	.0	1.5	27.0	.0	1.4	.0
Jun	63.6	46.7	55.2	85+	1991	21	58.0	1982	32	1971	4	51.4	1985	296	0	.0	5.3	29.6	.0	@	.0
Jul	66.1	50.1	58.1	89	1996	16	61.6	1989	38+	1968	19	55.2	1988	218	3	.0	8.3	31.0	.0	.0	.0
Aug	64.8	49.4	57.1	82	1979	23	61.4	1994	37+	1974	24	53.4	1973	249	4	.0	6.8	31.0	.0	.0	.0
Sep	57.3	44.8	51.1	73	1996	3	55.0	1995	27	1983	27	47.0	1992	419	0	.0	.4	28.7	.0	.5	.0
Oct	47.4	38.4	42.9	61+	1997	2	47.3	1979	13	1984	30	39.9	1985	685	0	.0	.0	9.1	.1	5.1	.0
Nov	37.5	29.8	33.7	54+	1976	13	40.8	1976	-4	1985	26	23.2	1985	939	0	.0	.0	.4	5.7	17.4	.1
Dec	33.0	25.6	29.3	51	1985	20	36.0	1997	-14+	1964	15	21.8	1977	1106	0	.0	.0	@	11.5	23.1	.7
Ann	48.6	36.2	42.5	89	Jul 1996	16	61.6	Jul 1989	-15	Feb 1968	2	14.8	Feb 1979	8217	7	.0	22.4	171.3	42.5	127.1	3.6

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1963-2001

(3) Derived from 1971-2000 serially complete daily data

005-A

**Climatography
of the United States
No. 20
1971-2000**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: AUKE BAY, AK

COOP ID: 500464

Climate Division: AK 1

NWS Call Sign:

Elevation: 42 Feet

Lat: 58°23N

Lon: 134°39W

Precipitation (inches)

	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution											
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	4.99	5.45	2.13	1965	15	9.38	1985	1.44	1995	19.7	11.8	2.8	.6	1.82	2.29	2.96	3.53	4.07	4.62	5.22	5.91	6.80	8.18	9.43	
Feb	3.83	3.39	1.98	1988	19	7.70	1985	.07	1989	16.7	10.3	2.0	.3	.69	1.03	1.59	2.12	2.65	3.22	3.88	4.67	5.72	7.42	9.03	
Mar	3.41	3.29	1.35	1975	29	6.83	1986	.72	1983	18.8	11.3	1.4	.0	1.40	1.71	2.15	2.51	2.85	3.20	3.58	4.01	4.55	5.39	6.15	
Apr	3.00	2.95	1.12+	1999	15	5.52	1999	1.42	1979	18.3	9.3	1.1	.1	1.57	1.82	2.15	2.41	2.65	2.89	3.14	3.43	3.79	4.32	4.79	
May	4.02	4.08	1.78	1972	19	7.44	1992	1.64	1977	19.4	11.1	2.3	.3	1.80	2.16	2.65	3.05	3.43	3.81	4.21	4.68	5.26	6.15	6.95	
Jun	4.27	3.82	2.41	2000	29	8.10	1974	1.68	1982	17.6	9.9	2.6	.4	2.08	2.44	2.94	3.34	3.71	4.08	4.48	4.93	5.49	6.33	7.09	
Jul	5.11	5.21	2.02	1968	28	9.68	1997	2.13	1982	18.1	11.4	3.3	.7	2.55	2.98	3.57	4.03	4.47	4.90	5.36	5.88	6.53	7.51	8.38	
Aug	6.45	6.38	2.75	1990	4	10.96	1972	2.91	1994	19.3	12.8	4.7	1.2	3.06	3.62	4.38	5.00	5.57	6.15	6.76	7.46	8.33	9.66	10.84	
Sep	8.87	8.59	3.58	1996	25	16.46	1991	3.55	1986	22.2	15.9	6.2	2.0	4.42	5.17	6.19	7.00	7.75	8.50	9.30	10.20	11.33	13.03	14.55	
Oct	9.41	8.76	3.51	1979	9	15.65	1974	4.28	1975	25.2	18.5	5.9	1.6	4.95	5.71	6.75	7.57	8.32	9.07	9.86	10.76	11.88	13.54	15.03	
Nov	5.49	5.75	1.90	1974	15	10.35	1993	1.66	1985	20.8	13.8	3.3	.6	1.91	2.43	3.18	3.82	4.43	5.05	5.74	6.53	7.55	9.13	10.58	
Dec	5.23	4.84	2.61	1997	2	10.40	1997	1.42	1983	20.9	13.6	2.6	.6	2.00	2.49	3.18	3.76	4.31	4.87	5.47	6.18	7.07	8.44	9.69	
Ann	64.08	64.23	3.58	Sep 1996	25	16.46	Sep 1991	.07	Feb 1989	237.0	149.7	38.2	8.4	51.33	53.92	57.16	59.58	61.70	63.72	65.80	68.06	70.78	74.66	77.97	

+ Also occurred on an earlier date(s)

Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1963-2001

(3) Derived from 1971-2000 daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: AUKE BAY, AK

COOP ID: 500464

Climate Division: AK 1

NWS Call Sign:

Elevation: 42 Feet

Lat: 58°23N

Lon: 134°39W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	27.0	23.9	10	11	18.9	1994	17	71.0	1982	45	1973	21	26+	1973	11.0	7.3	3.3	1.8	.3	24.5	22.0	20.1	14.3
Feb	16.2	16.3	11	9	14.2	1985	14	37.0	1972	42	1982	21	35	1972	7.4	4.5	2.0	1.1	.1	20.6	19.2	16.5	13.3
Mar	9.9	6.2	8	5	15.0	1971	4	52.3	1971	47	1972	10	31	1972	5.3	3.1	1.2	.4	.1	18.0	16.3	15.1	10.8
Apr	.9	.2	1	0	5.0	1975	20	7.5	1972	23	1972	2	15	1972	1.4	.4	@	@	.0	4.4	3.9	3.4	2.3
May	#	.0	#	0	.0	0	0	.0	0	1	1972	1	0	0	.0	.0	.0	.0	.0	@	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	#	.0	0	0	.5	1974	30	.5	1974	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	4.5	1991	30	6.6	1991	5	1991	31	0	0	.6	.3	@	.0	.0	.4	.1	.1	.0
Nov	11.6	5.0	1	0	12.0	1978	11	44.2	1990	23	1994	23	8+	1994	5.3	3.3	1.4	.6	.1	8.8	6.2	5.1	1.8
Dec	20.2	15.7	5	3	13.0	1975	7	59.6	1991	36	1975	14	18	1990	9.1	5.5	2.3	1.0	.3	17.6	14.1	12.8	8.2
Ann	86.5	67.3	N/A	N/A	18.9	Jan 1994	17	71.0	Jan 1982	47	Mar 1972	10	35	Feb 1972	40.1	24.4	10.2	4.9	.9	94.3	81.8	73.1	50.7

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

Complete documentation available from:

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No. 20 1971-2000

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NWS Call Sign:

Elevation: 42 Feet

Lat: 58° 23N

Lon: 134° 39W

Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/04	5/29	5/25	5/22	5/19	5/16	5/13	5/09	5/04
32	5/19	5/14	5/10	5/06	5/03	4/30	4/27	4/23	4/17
28	4/26	4/21	4/17	4/14	4/12	4/09	4/06	4/02	3/28
24	4/17	4/08	4/01	3/27	3/21	3/16	3/10	3/04	2/23
20	4/12	4/01	3/23	3/16	3/10	3/03	2/24	2/16	2/05
16	3/29	3/18	3/10	3/04	2/25	2/19	2/12	2/04	1/24
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/19	9/24	9/27	9/30	10/03	10/05	10/08	10/12	10/16
32	9/23	9/30	10/05	10/09	10/12	10/16	10/20	10/25	10/31
28	10/08	10/16	10/22	10/27	11/01	11/06	11/11	11/17	11/25
24	10/25	11/02	11/07	11/12	11/17	11/22	11/26	12/02	12/10
20	10/28	11/07	11/15	11/21	11/27	12/03	12/09	12/17	12/27
16	11/05	11/15	11/23	11/29	12/05	12/11	12/17	12/24	1/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	149	144	140	136	132	127	122	115
32	190	180	173	167	161	156	150	143	133
28	234	223	216	209	203	196	190	182	171
24	276	264	255	247	240	233	225	216	203
20	306	291	280	270	262	253	244	233	217
16	321	307	298	290	282	274	266	256	243

* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Climate Division: AK 1 NWS Call Sign: Elevation: 42 Feet Lat: 58° 23N Lon: 134° 39W

Degree Days to Selected Base Temperatures (° F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1192	981	937	699	496	296	218	249	419	685	939	1106	8217
60	1037	841	782	549	344	160	89	121	271	530	789	951	6464
57	944	757	689	459	258	97	40	67	187	437	699	858	5492
55	883	701	627	400	205	64	18	39	136	375	639	796	4883
50	739	572	473	256	100	15	0	7	42	226	498	647	3575
32	288	187	58	3	0	0	0	0	0	5	112	200	853

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	119	130	144	294	527	694	808	778	571	342	163	117	4687
55	1	0	0	1	20	68	113	104	17	0	0	0	324
57	0	0	0	0	10	41	73	70	7	0	0	0	201
60	0	0	0	0	3	14	29	31	2	0	0	0	79
65	0	0	0	0	0	0	3	4	0	0	0	0	7
70	0	0	0	0	0	0	0	0	0	0	0	0	0

Growing Degree Units (2)																								
Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0	0	2	81	281	455	566	532	331	118	10	0	0	0	2	83	364	819	1385	1917	2248	2366	2376	2376
45	0	0	0	18	138	306	411	377	188	31	0	0	0	0	0	18	156	462	873	1250	1438	1469	1469	1469
50	0	0	0	1	45	162	256	222	63	0	0	0	0	0	0	1	46	208	464	686	749	749	749	749
55	0	0	0	0	6	62	105	84	7	0	0	0	0	0	0	0	6	68	173	257	264	264	264	264
60	0	0	0	0	0	11	33	22	0	0	0	0	0	0	0	0	0	11	44	66	66	66	66	66
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	0	37	127	212	267	248	112	10	0	0	0	0	0	37	164	376	643	891	1003	1013	1013	1013

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Notes

a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.

b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.

c. Only observed validated values were used to select the extreme daily values.

d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.

Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.

e. Degree Days were derived using the same techniques as the 1971-2000 normals.

Complete documentation for the 1971-2000 Normals is available on the internet from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

f. Mean "number of days statistics" for temperature were calculated from a serially complete daily data set. A serial dataset was not available for precipitation,

To ensure that a station's data was adequate to estimate these statistics, the following criteria were used:

1. A station must have 80% of its data for the 1971-2000 time period.
2. Only months with at least 21 days are used.
3. There must be a least 21 months (meeting criteria 2.) in the sample.

g. Snowfall and snow depth statistics were derived daily values quality controlled to be consistent with the Snow Climatology.

Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these differences are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data. Other inconsistencies may appear from comparing statistically modeled values such as degree days to observed temperatures.

a. Temperature/ Precipitation Tables

1. 1971-2000 Monthly Normals
2. Cooperative Summary of the Day
3. National Weather Service station records
4. 1971-2000 serially complete daily data

c. Snow Tables

1. Cooperative Summary of the Day

d. Freeze Data Table

1971-2000 serially complete daily data

b. Degree Day Table

1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html

U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html

Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html