U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: KING SALMON AP, AK **COOP ID: 504766**

Climate Division: AK 6 **NWS Call Sign: AKN** **Elevation: 49 Feet** **Lat: 58˚41N** **Lon: 156˚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	22.8	8.0	15.4	53	1963	27	33.8	1977	-48	1989	28	-3.2	1971	1538	0	.0	.0	@	17.6	27.6	10.8
Feb	23.8	7.4	15.6	57	1991	27	30.3+	2000	-41+	1993	1	-1.9	1984	1384	0	.0	.0	.3	15.9	25.6	11.1
Mar	32.0	15.1	23.5	55	1996	28	36.6	1984	-42	1971	13	1.5	1972	1286	0	.0	.0	.5	11.9	27.1	6.3
Apr	41.3	24.9	33.1	65	1958	28	41.0	1993	-19	1956	6	21.2	1985	957	0	.0	.0	5.3	4.3	24.2	1.0
May	52.1	34.8	43.5	80	1997	25	48.3	1993	13+	1965	4	37.8	1971	667	0	.0	.7	19.3	.1	10.6	.0
Jun	59.5	42.2	50.9	83	1997	28	54.4	1983	29+	1999	4	46.8	1972	425	0	.0	2.3	28.1	.0	.4	.0
Jul	63.8	47.5	55.7	85	1971	11	59.8	1997	33+	1993	1	52.1	1982	290	0	.0	6.1	30.8	.0	.0	.0
Aug	62.2	47.4	54.8	84	1968	5	57.6	1987	25	1984	31	51.4	1980	317	0	.0	4.2	30.9	.0	.3	.0
Sep	54.9	40.3	47.6	74	1974	3	52.5	1995	15	1983	26	41.0	1992	521	0	.0	.2	25.9	.0	5.5	.0
Oct	40.5	26.0	33.3	62	1967	4	39.5	1979	-12	1983	25	27.3	1985	984	0	.0	.0	4.9	5.6	21.5	.8
Nov	30.5	15.9	23.2	56	1986	1	32.8	2000	-28	1988	22	12.6	1975	1254	0	.0	.0	.2	14.5	25.3	5.7
Dec	25.1	9.3	17.2	48+	1998	18	34.5	1985	-38	2001	19	1.6	1999	1481	0	.0	.0	.0	16.9	27.8	10.5
Ann	42.4	26.6	34.5	85	Jul 1971	11	59.8	Jul 1997	-48	Jan 1989	28	-3.2	Jan 1971	11104	0	.0	13.5	146.2	86.8	195.9	46.2

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1955-2001

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

Issue Date: May 2005

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.03	.95	1.05	1987	8	2.38	1987	.25	1997
Feb	.72	.65	1.28	1969	24	2.26	1981	.11	1973
Mar	.79	.65	.83	1970	29	1.99	1977	.13	1997
Apr	.94	.87	1.21	1963	20	2.65	1975	.19	1992
May	1.35	1.27	.98	1977	17	3.05	1998	.46	1979
Jun	1.70	1.61	.84	1999	7	3.04	1982	.50	1993
Jul	2.15	2.00	1.11	1988	12	5.08	1990	.74	1975
Aug	2.89	2.98	1.59	1994	3	4.73+	1995	1.05	1975
Sep	2.81	2.69	1.67	1960	1	5.90	1989	.89	1984
Oct	2.10	2.26	1.32	1958	14	3.96	1998	.03	1997
Nov	1.54	1.40	1.37	1985	9	3.35	1985	.13	1995
Dec	1.39	1.25	1.15	1984	1	3.65	1978	.14	1995
Ann	19.41	19.50	1.67	Sep 1960	1	5.90	Sep 1989	.03	Oct 1997

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	3.8	.1	.0
Feb	8.6	2.3	.2	.0
Mar	9.8	2.7	.1	.0
Apr	11.2	3.5	.1	.0
May	12.8	4.6	.2	.0
Jun	14.0	5.9	.3	.0
Jul	14.7	6.3	1.0	.1
Aug	16.3	8.5	1.5	.1
Sep	16.9	8.0	1.1	.2
Oct	13.2	6.3	.8	.0
Nov	12.6	4.8	.4	.0
Dec	12.9	4.3	.3	.0
Ann	154.3	61.0	6.1	.4

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.33	.42	.57	.69	.81	.93	1.07	1.23	1.43	1.75	2.05
Feb	.13	.20	.30	.40	.50	.61	.73	.87	1.07	1.38	1.68
Mar	.10	.16	.27	.38	.50	.63	.78	.96	1.21	1.62	2.02
Apr	.26	.34	.48	.60	.72	.84	.97	1.13	1.34	1.67	1.97
May	.52	.64	.82	.97	1.11	1.26	1.41	1.59	1.82	2.17	2.49
Jun	.74	.90	1.11	1.28	1.44	1.61	1.78	1.98	2.23	2.62	2.97
Jul	.84	1.04	1.32	1.56	1.78	2.01	2.25	2.53	2.89	3.44	3.95
Aug	1.53	1.76	2.08	2.33	2.56	2.79	3.03	3.31	3.65	4.16	4.61
Sep	1.12	1.38	1.75	2.05	2.34	2.63	2.94	3.30	3.76	4.47	5.11
Oct	.50	.70	1.01	1.28	1.55	1.84	2.16	2.54	3.04	3.83	4.57
Nov	.36	.50	.73	.93	1.13	1.34	1.58	1.87	2.24	2.84	3.40
Dec	.31	.44	.64	.83	1.01	1.20	1.42	1.68	2.03	2.57	3.09
Ann	14.16	15.19	16.49	17.48	18.35	19.19	20.06	21.01	22.17	23.85	25.29

\+ 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: 1955-2001
(3) Derived from 1971-2000 daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	7.9	7.9	2	1
Feb	4.8	4.4	2	1
Mar	5.7	4.6	2	1
Apr	4.2	3.7	#	0
May	.8	.2	#	0
Jun	.1	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	#	0
Oct	3.0	2.0	#	0
Nov	5.8	5.2	#	0
Dec	8.1	7.9	1	1
Ann	40.4	35.9	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	17.8	1993	26	26.9	1993	20	2000	17	15	2000
Feb	5.7	1977	21	14.7	1971	16	2000	1	9	1975
Mar	11.0	1981	6	19.0	1977	15	1990	1	12	1975
Apr	7.2	1999	10	11.5	1975	10+	1977	1	5	1975
May	3.8	1985	12	6.1	1985	3	1985	12	0	0
Jun	1.2	1972	2	1.3	1972	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.4	1981	29	.5	1981	1	1981	29	0	0
Oct	8.7	1983	21	15.7	1990	8	1998	25	1+	1998
Nov	5.0	1979	16	15.6	1994	7	1988	30	5	1988
Dec	6.0	1993	9	23.7	1993	10+	1993	15	5	1993
Ann	17.8	Jan 1993	26	26.9	Jan 1993	20	Jan 2000	17	15	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.4	2.8	.4	.2	@
Feb	6.0	1.6	.2	@	.0
Mar	7.1	2.2	.2	.1	@
Apr	5.6	1.6	.1	@	.0
May	1.4	.2	@	.0	.0
Jun	.1	@	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.0	.0	.0	.0
Oct	2.8	1.1	.2	.1	.0
Nov	6.7	2.1	.3	@	.0
Dec	8.0	2.6	.6	.1	.0
Ann	45.2	14.2	2.0	.5	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	13.9	8.7	5.4	1.3
Feb	14.1	8.6	5.1	.9
Mar	13.6	7.5	5.7	2.2
Apr	4.9	1.5	.6	.2
May	.1	@	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	@	.0	.0	.0
Oct	2.2	.5	.2	.0
Nov	9.0	3.0	1.1	.0
Dec	16.0	8.1	3.0	.1
Ann	73.8	37.9	21.1	4.7

+ 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

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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	7/11	7/05	6/30	6/26	6/23	6/19	6/16	6/11	6/05
32	6/13	6/08	6/04	6/01	5/29	5/26	5/23	5/19	5/14
28	5/26	5/20	5/16	5/13	5/10	5/07	5/04	4/30	4/24
24	5/10	5/06	5/02	4/29	4/27	4/24	4/21	4/17	4/13
20	5/04	4/29	4/25	4/22	4/19	4/16	4/12	4/08	4/03
16	4/26	4/21	4/17	4/14	4/11	4/08	4/05	4/01	3/27

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	8/11	8/17	8/22	8/25	8/29	9/01	9/05	9/09	9/15
32	8/23	8/29	9/03	9/07	9/10	9/14	9/18	9/22	9/29
28	9/06	9/11	9/15	9/19	9/22	9/25	9/28	10/02	10/08
24	9/20	9/24	9/26	9/28	9/30	10/03	10/05	10/07	10/11
20	9/28	10/02	10/04	10/06	10/08	10/10	10/12	10/15	10/18
16	10/02	10/06	10/08	10/10	10/12	10/14	10/17	10/19	10/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	94	85	78	72	66	60	54	47	38
32	131	122	115	109	103	98	92	85	76
28	159	151	144	139	134	129	124	117	109
24	174	168	164	160	156	153	149	144	138
20	192	185	180	176	172	168	164	158	151
16	203	196	192	187	184	180	176	171	165

***** 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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1538	1384	1286	957	667	425	290	317	521	984	1254	1481	11104
60	1383	1244	1134	807	512	276	143	169	372	829	1104	1326	9299
57	1305	1173	1051	721	420	194	74	97	286	736	1014	1242	8313
55	1246	1119	992	667	363	144	42	61	233	674	954	1184	7679
50	1100	987	848	527	226	55	5	11	122	521	805	1039	6246
32	629	560	412	158	10	0	0	0	1	102	322	567	2761

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	115	100	150	191	366	566	733	706	470	141	59	110	3707
55	18	15	17	9	6	20	62	54	12	0	0	14	227
57	16	13	14	4	1	9	33	28	5	0	0	10	133
60	0	0	4	0	0	2	8	8	1	0	0	0	23
65	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	14	138	328	486	458	239	33	3	0	0	0	0	14	152	480	966	1424	1663	1696	1699	1699
45	0	0	0	0	46	182	331	305	118	5	0	0	0	0	0	0	46	228	559	864	982	987	987	987
50	0	0	0	0	9	71	181	154	34	0	0	0	0	0	0	0	9	80	261	415	449	449	449	449
55	0	0	0	0	0	10	59	47	1	0	0	0	0	0	0	0	0	10	69	116	117	117	117	117
60	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	5	8	8	8	8	8
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	0	6	70	152	230	205	91	4	0	0	0	0	0	6	76	228	458	663	754	758	758	758

(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.
Compete 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 are 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

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

c. Snow Tables
1. Cooperative Summary of the Day

d. Freeze Data Table
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