

Climatography of the United States

No. 20

1971-2000

Station: HOMER AP, AK

COOP ID: 503665

Climate Division: AK 5

NWS Call Sign: HOM

Elevation: 89 Feet

Lat: 59° 39N

Lon: 151° 29W

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	29.3	17.5	23.4	51+	1994	31	37.1	1977	-24+	1989	29	9.7	1971	1290	0	.0	.0	.1	16.1	27.1	4.3
Feb	31.4	18.3	24.9	52	1934	18	35.8	1997	-19	1999	5	12.5	1999	1125	0	.0	.0	@	12.9	24.7	2.2
Mar	36.3	22.5	29.4	53	1974	26	38.0	1984	-21	1971	5	16.0	1972	1103	0	.0	.0	.1	7.5	26.9	1.4
Apr	43.4	29.3	36.4	63	1965	17	41.0	1995	-9	1944	1	27.1	1972	860	0	.0	.0	3.8	1.3	21.0	.0
May	50.6	36.7	43.7	71+	1997	25	48.0	1993	6	1949	4	38.1	1971	663	0	.0	.1	17.9	.0	6.6	.0
Jun	57.0	43.0	50.0	80	1953	25	52.3	1992	27	1973	3	46.6+	1972	451	0	.0	.2	29.0	.0	.1	.0
Jul	61.0	47.2	54.1	81	1993	10	57.4	1997	34+	1959	22	51.6	1971	338	0	.0	.6	31.0	.0	.0	.0
Aug	60.8	46.7	53.8	78	1944	10	56.7	1989	31	1955	30	51.3	1973	349	0	.0	.8	31.0	.0	.0	.0
Sep	54.8	41.0	47.9	69	1997	11	51.7	1995	20	1956	28	42.8	1992	514	0	.0	.0	27.1	.0	3.2	.0
Oct	44.1	31.4	37.8	64	1954	1	42.5	1979	0	1938	18	32.1	1996	844	0	.0	.0	5.5	1.5	17.3	.0
Nov	35.2	23.5	29.4	58+	1936	10	36.0	1979	-7+	1990	30	20.4	1990	1069	0	.0	.0	.5	9.8	24.6	.3
Dec	31.6	20.0	25.8	50	1969	20	35.1	1985	-16	1964	12	12.5	1980	1215	0	.0	.0	.0	14.2	27.2	1.5
Ann	44.6	31.4	38.1	81	Jul 1993	10	57.4	Jul 1997	-24+	Jan 1989	29	9.7	Jan 1971	9821	0	.0	1.7	146.0	63.3	178.7	9.7

+ 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: 1932-2001

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

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No. 20

1971-2000

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

Station: HOMER AP, AK

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Climate Division: AK 5

NWS Call Sign: HOM

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Lat: 59°39N

Lon: 151°29W

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	2.61	2.17	2.32	1984	12	6.68	1981	.18	1996	13.8	7.0	1.6	.2	.45	.68	1.06	1.42	1.79	2.18	2.64	3.19	3.92	5.11	6.24	
Feb	2.04	1.72	1.68	1941	11	5.62	1978	.12	1979	11.6	5.9	1.0	.1	.30	.47	.77	1.05	1.34	1.66	2.03	2.49	3.09	4.09	5.04	
Mar	1.82	1.67	1.83	1987	21	6.02	1981	.03	1989	11.3	5.1	.9	.2	.14	.26	.49	.74	1.02	1.34	1.73	2.21	2.89	4.02	5.14	
Apr	1.21	.99	1.44+	1980	21	4.09	1988	.10	1981	9.8	3.5	.4	.1	.22	.33	.51	.67	.84	1.02	1.22	1.47	1.79	2.32	2.82	
May	1.07	1.02	1.11	1973	14	2.31	1998	.08	1974	10.0	3.2	.3	.0	.18	.27	.43	.57	.73	.89	1.08	1.31	1.62	2.11	2.59	
Jun	.96	.91	1.19	1949	22	2.47	1978	.29	1986	9.1	3.1	.2	.0	.36	.45	.58	.69	.79	.89	1.01	1.14	1.31	1.57	1.81	
Jul	1.45	1.19	1.32	1948	5	3.73	1981	.27	1996	11.1	4.6	.5	.1	.32	.46	.67	.86	1.05	1.25	1.48	1.76	2.11	2.68	3.22	
Aug	2.28	2.37	1.80	1936	11	4.17	1984	.47	1978	13.1	6.5	.9	.1	.70	.92	1.24	1.52	1.79	2.07	2.37	2.73	3.20	3.92	4.59	
Sep	3.37	3.43	1.50	1990	8	6.18	1990	1.06	1992	16.0	8.9	1.9	.3	1.41	1.71	2.14	2.50	2.83	3.17	3.53	3.95	4.47	5.28	6.01	
Oct	2.77	2.43	2.24	1946	19	6.87	1987	.83	1992	14.3	8.1	1.2	.3	.77	1.03	1.43	1.78	2.12	2.47	2.87	3.33	3.93	4.88	5.77	
Nov	2.87	2.32	3.02	1952	23	8.72	1983	.16	1990	13.0	7.4	1.6	.3	.29	.49	.89	1.29	1.72	2.21	2.79	3.51	4.49	6.13	7.73	
Dec	3.00	2.76	2.12	1991	31	7.78	1986	.12	1977	15.7	8.3	1.6	.3	.33	.55	.97	1.39	1.84	2.34	2.93	3.67	4.67	6.32	7.93	
Ann	25.45	24.35	3.02	Nov 1952	23	8.72	Nov 1983	.03	Mar 1989	148.8	71.6	12.1	2.0	16.72	18.36	20.48	22.12	23.58	25.01	26.49	28.14	30.15	33.10	35.67	

+ 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: 1932-2001

(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: HOMER AP, AK

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NWS Call Sign: HOM

Elevation: 89 Feet

Lat: 59°39N

Lon: 151°29W

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	8.4	7.9	2	2	7.8	1981	21	15.8	1972	20	1980	3	12	1972	6.3	3.1	.8	.1	.0	17.2	10.6	6.2	2.6
Feb	11.0	7.6	2	2	11.2	1974	13	45.4	1974	22	1974	15	11	1992	5.7	3.4	1.2	.6	.0	14.3	9.4	6.7	2.1
Mar	9.3	5.4	3	1	11.5	1976	27	32.7	1976	34	1971	16	23	1971	5.6	2.6	1.1	.6	@	14.3	8.4	6.2	3.1
Apr	3.4	.9	1	0	6.4	1972	19	15.6	1972	21	1971	9	17	1972	2.8	1.3	.2	.1	.0	5.3	3.8	3.1	2.0
May	.4	.0	#	0	3.1	1971	6	6.6	1971	8	1972	1	1	1972	.3	.1	@	.0	.0	.3	.1	.1	.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	.1	1977	29	.2	1977	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Oct	2.7	1.0	#	0	6.9	1996	12	20.4	1976	9	1976	30	1+	1997	1.9	.7	.3	.2	.0	1.1	.5	.3	.0
Nov	7.0	6.0	#	1	12.0	1974	21	14.9	1971	14+	1981	7	3+	1981	4.7	2.3	.8	.4	@	8.0	2.9	1.1	.2
Dec	12.6	10.3	2	2	19.2	1979	28	53.1	1979	26	1979	29	9	1973	7.4	3.9	1.4	.5	@	17.2	10.2	5.9	1.5
Ann	54.8	39.1	N/A	N/A	19.2	Dec 1979	28	53.1	Dec 1979	34	Mar 1971	16	23	Mar 1971	34.8	17.4	5.8	2.5	@	77.7	45.9	29.6	11.5

+ 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	6/30	6/23	6/18	6/13	6/09	6/05	6/01	5/27	5/19
32	6/05	5/30	5/26	5/23	5/20	5/17	5/13	5/09	5/04
28	5/18	5/12	5/08	5/04	5/01	4/27	4/24	4/19	4/14
24	4/28	4/22	4/17	4/14	4/10	4/07	4/03	3/30	3/24
20	4/21	4/12	4/06	4/01	3/27	3/23	3/17	3/11	3/03
16	4/14	4/06	3/30	3/25	3/20	3/16	3/10	3/04	2/24
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	8/24	8/29	9/02	9/05	9/08	9/11	9/14	9/18	9/23
32	9/11	9/15	9/19	9/21	9/24	9/27	9/30	10/03	10/08
28	9/21	9/25	9/28	10/01	10/03	10/05	10/08	10/11	10/15
24	10/09	10/13	10/16	10/19	10/21	10/24	10/26	10/29	11/03
20	10/17	10/21	10/24	10/27	10/29	11/01	11/03	11/07	11/11
16	10/24	10/29	11/02	11/05	11/09	11/12	11/15	11/19	11/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	117	108	101	96	90	85	79	72	63
32	150	142	136	131	127	122	117	111	103
28	177	169	164	159	155	150	145	140	132
24	216	208	203	198	193	189	184	178	170
20	247	236	228	221	215	209	202	194	183
16	268	256	247	239	232	225	218	209	197

* 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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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	1290	1125	1103	860	663	451	338	349	514	844	1069	1215	9821
60	1135	985	948	710	508	301	184	196	364	689	919	1060	7999
57	1042	901	855	620	415	213	100	113	276	596	829	967	6927
55	988	845	793	560	353	159	58	71	219	534	769	905	6254
50	843	710	647	415	210	56	5	11	102	380	619	755	4753
32	387	285	207	54	2	0	0	0	0	29	182	288	1434

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	120	85	127	184	362	539	685	674	476	208	103	96	3659
55	8	0	0	0	0	8	30	32	6	0	0	0	84
57	0	0	0	0	0	2	10	12	2	0	0	0	26
60	0	0	0	0	0	0	1	2	0	0	0	0	3
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	18	131	307	445	434	248	50	7	0	0	0	0	18	149	456	901	1335	1583	1633	1640	1640
45	0	0	0	0	35	161	290	279	114	11	0	0	0	0	0	0	35	196	486	765	879	890	890	890
50	0	0	0	0	3	47	141	133	26	0	0	0	0	0	0	0	3	50	191	324	350	350	350	350
55	0	0	0	0	0	3	25	30	0	0	0	0	0	0	0	0	0	3	28	58	58	58	58	58
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	0	2	37	114	183	187	84	6	0	0	0	0	0	2	39	153	336	523	607	613	613	613

(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