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: HOLLISTER, ID **COOP ID: 104295**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 4,525 Feet** **Lat: 42˚21N** **Lon: 114˚35W**

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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	37.3	19.5	28.4	60+	1990	9	35.6	1998	-26	1962	22	15.9	1979	1135	0	.0	.0	3.2	8.1	28.5	1.8
Feb	43.4	23.3	33.4	72	1977	20	41.5	1991	-19	1989	6	23.8	1989	887	0	.0	.0	7.4	3.4	23.8	.9
Mar	51.2	27.7	39.5	75+	1986	27	45.5	1986	-3	1993	1	33.4	1976	792	0	.0	.0	17.4	.6	23.1	@
Apr	59.8	32.4	46.1	85+	1992	30	54.2	1987	9	1959	9	37.8	1975	569	2	.0	.0	24.7	.0	15.3	.0
May	68.0	39.2	53.6	93	1954	19	60.2	1992	18	1968	6	48.3	1977	362	8	.0	.0	29.8	.0	5.3	.0
Jun	77.8	46.5	62.2	97	1984	28	68.0	1988	26	1951	3	56.6	1995	155	69	.0	2.7	29.9	.0	.5	.0
Jul	86.1	53.8	70.0	103	1998	20	74.6	1985	30	1988	30	62.4	1993	28	181	.2	9.7	31.0	.0	.1	.0
Aug	84.9	53.3	69.1	101	1983	7	72.6	1981	32+	1992	25	63.9	1976	35	162	.1	6.6	31.0	.0	@	.0
Sep	75.1	45.3	60.2	96+	1979	7	66.5	1990	20+	1983	20	53.7	1985	186	43	.0	.9	29.8	.0	2.2	.0
Oct	62.9	36.1	49.5	88	1992	1	57.5	1988	6	1971	29	45.0	1984	481	1	.0	.0	27.3	.2	10.7	.0
Nov	47.4	27.4	37.4	77	1980	5	45.3	1999	-11	1955	15	29.7	1985	829	0	.0	.0	11.4	2.9	22.3	.2
Dec	38.8	19.9	29.4	64+	1995	1	35.7	1980	-27	1990	22	19.1	1985	1106	0	.0	.0	3.5	8.0	28.1	1.8
Ann	61.1	35.4	48.2	103	Jul 1998	20	74.6	Jul 1985	-27	Dec 1990	22	15.9	Jan 1979	6565	466	.3	19.9	246.4	23.2	159.9	4.7

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

Issue Date: February 2004

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: HOLLISTER, ID **COOP ID: 104295**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 4,525 Feet** **Lat: 42˚21N** **Lon: 114˚35W**

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	.91	.78	1.00	1979	11	2.18	1979	.08	1992
Feb	.58	.51	.67	2000	14	2.34	1986	.03+	1991
Mar	.89	.91	1.12	1993	17	2.61	1993	.05	1977
Apr	.95	.81	1.14	1994	30	2.57	1981	.11	1977
May	1.52	1.24	1.58	1988	6	4.69	1998	.00	1992
Jun	1.12	.85	.99	1954	26	3.03	1995	.03	2000
Jul	.47	.39	1.23	1960	31	1.59	1977	.00+	2000
Aug	.51	.34	1.32	1968	20	2.23	1983	.00+	1996
Sep	.78	.51	1.42	1978	10	2.91	1978	.00+	1999
Oct	.84	.76	1.00	1972	20	1.87+	1982	.00+	1988
Nov	.96	.93	.84	1951	12	2.90	1988	.12	1993
Dec	.81	.64	1.34	1964	23	2.82	1996	.00+	1986
Ann	10.34	9.99	1.58	May 1988	6	4.69	May 1998	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.7	2.8	.1	@
Feb	5.6	1.9	.1	.0
Mar	6.0	2.5	.2	@
Apr	5.4	2.9	.1	@
May	6.6	4.0	.5	.1
Jun	5.3	3.2	.3	.0
Jul	2.5	1.5	.1	.0
Aug	2.2	1.6	.1	.0
Sep	2.8	1.9	.3	.1
Oct	4.3	2.5	.2	@
Nov	6.3	2.6	.2	.0
Dec	5.0	2.2	.1	.0
Ann	58.7	29.6	2.3	.2

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	.13	.20	.33	.46	.59	.74	.91	1.11	1.39	1.84	2.28
Feb	.06	.11	.19	.27	.36	.45	.56	.70	.89	1.21	1.51
Mar	.10	.17	.29	.42	.55	.70	.87	1.08	1.37	1.85	2.32
Apr	.13	.21	.34	.48	.61	.76	.94	1.16	1.45	1.92	2.38
May	.09	.24	.48	.71	.94	1.20	1.50	1.87	2.37	3.20	4.00
Jun	.08	.16	.30	.45	.62	.82	1.06	1.36	1.77	2.47	3.16
Jul	.00	.00	.00	.18	.28	.38	.49	.62	.80	1.08	1.33
Aug	.00	.00	.05	.15	.25	.36	.49	.65	.87	1.22	1.58
Sep	.00	.00	.07	.22	.38	.55	.75	.99	1.33	1.88	2.45
Oct	.00	.08	.22	.36	.49	.65	.83	1.04	1.34	1.83	2.31
Nov	.16	.24	.38	.51	.65	.80	.97	1.17	1.45	1.90	2.33
Dec	.00	.07	.21	.34	.47	.62	.80	1.01	1.31	1.79	2.27
Ann	6.53	7.23	8.15	8.86	9.50	10.12	10.77	11.50	12.39	13.70	14.84

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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

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

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: HOLLISTER, ID **COOP ID: 104295**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 4,525 Feet** **Lat: 42°21N** **Lon: 114°35W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	1.5	-99.9	1	0	6.0	1971	7	7.6	1971	10	1971	7	2+	1980	-9.9	-9.9	-9.9	-9.9	-9.9	4.2	2.4	.3	.1
Feb	5.4	3.2	#	0	11.0	1972	24	13.8	1972	8	1972	24	2	1972	-9.9	-9.9	-9.9	-9.9	-9.9	2.2	1.1	.2	.0
Mar	3.9	1.8	#	0	6.0	1974	2	12.5	1974	6	1974	9	1	1974	1.4	1.2	.5	.2	.0	.8	.4	.2	.0
Apr	3.7	.0	#	0	12.5	1975	6	23.0	1975	7	1975	6	1	1975	1.2	1.0	.3	.1	.1	.3	.2	.1	.0
May	2.7	.0	0	0	12.0	1975	21	25.5	1975	8	1975	21	1	1975	.4	.3	.3	.2	.1	.1	.1	.1	.0
Jun	#	.0	0	0	#	1973	17	#	1973	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.6	.0	#	0	3.5	1971	28	5.5	1971	2	1971	31	#+	1979	.2	.2	.1	.0	.0	.1	.0	.0	.0
Nov	2.4	.0	#	0	4.0	1972	19	8.0	1972	4+	1975	28	#+	1975	1.1	.8	.4	.0	.0	.8	.2	.0	.0
Dec	2.8	.3	1	0	8.0	1971	26	8.0	1971	12	1992	29	12	1992	-9.9	-9.9	-9.9	-9.9	-9.9	2.6	1.4	1.2	.0
Ann	23.0	-9.9	N/A	N/A	12.5	Apr 1975	6	25.5	May 1975	12	Dec 1992	29	12	Dec 1992	-9.9	-9.9	-9.9	-9.9	-9.9	11.1	5.8	2.1	.1

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

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: HOLLISTER, ID **COOP ID: 104295**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 4,525 Feet** **Lat: 42˚21N** **Lon: 114˚35W**

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	7/09	7/03	6/28	6/24	6/20	6/16	6/12	6/07	6/01
32	6/27	6/18	6/12	6/07	6/02	5/28	5/23	5/17	5/09
28	6/04	5/27	5/21	5/15	5/11	5/06	4/30	4/24	4/16
24	5/10	5/03	4/28	4/24	4/20	4/16	4/12	4/07	4/01
20	4/17	4/09	4/03	3/29	3/25	3/20	3/15	3/09	3/01
16	4/01	3/23	3/17	3/12	3/07	3/02	2/24	2/18	2/09

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	8/30	9/04	9/07	9/10	9/12	9/15	9/18	9/21	9/25
32	9/09	9/13	9/16	9/19	9/21	9/24	9/27	9/30	10/04
28	9/19	9/25	9/29	10/02	10/05	10/08	10/12	10/16	10/21
24	10/02	10/08	10/12	10/15	10/18	10/22	10/25	10/29	11/04
20	10/11	10/18	10/23	10/27	10/30	11/03	11/07	11/12	11/18
16	11/01	11/06	11/10	11/13	11/15	11/18	11/21	11/25	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	106	98	93	88	84	79	75	69	61
32	140	130	122	116	111	105	99	92	82
28	178	168	160	153	147	141	134	126	115
24	209	199	192	186	181	175	169	162	152
20	252	241	233	226	219	213	206	197	186
16	279	270	263	258	253	248	242	236	227

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

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: HOLLISTER, ID **COOP ID: 104295**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 4,525 Feet** **Lat: 42˚21N** **Lon: 114˚35W**

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	1135	887	792	569	362	155	28	35	186	481	829	1106	6565
60	980	747	637	427	227	78	6	8	96	332	679	951	5168
57	887	663	544	347	161	46	2	3	58	251	589	858	4409
55	825	607	483	297	124	30	1	1	38	202	530	796	3934
50	672	474	338	191	54	9	0	0	11	102	391	643	2885
32	217	107	24	11	0	0	0	0	0	1	58	193	611

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	105	144	256	434	669	904	1176	1149	846	544	220	111	6558
55	0	0	2	31	80	244	464	438	195	32	2	0	1488
57	0	0	1	21	55	200	403	377	154	19	0	0	1230
60	0	0	0	11	28	142	314	290	102	7	0	0	894
65	0	0	0	2	8	69	181	162	43	1	0	0	466
70	0	0	0	0	1	25	85	72	12	0	0	0	195

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	9	30	92	217	436	680	929	909	598	317	68	10	9	39	131	348	784	1464	2393	3302	3900	4217	4285	4295
45	0	6	34	119	293	530	774	754	450	194	23	0	0	6	40	159	452	982	1756	2510	2960	3154	3177	3177
50	0	0	7	52	171	380	619	599	309	100	3	0	0	0	7	59	230	610	1229	1828	2137	2237	2240	2240
55	0	0	1	21	86	247	465	445	190	39	0	0	0	0	1	22	108	355	820	1265	1455	1494	1494	1494
60	0	0	0	2	34	138	318	292	92	8	0	0	0	0	0	2	36	174	492	784	876	884	884	884
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	24	69	165	291	437	602	590	391	226	49	5	0	24	93	258	549	986	1588	2178	2569	2795	2844	2849

(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 and precipitation were calculated from a serially complete daily data set .
Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from 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 difference 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.

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. Snow Climatology
   2. 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
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf