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: PAGO PAGO AP, PI **COOP ID: 914690**

Climate Division: PI 2 **NWS Call Sign: NSTU** **Elevation: 10 Feet** **Lat: 14˚20S** **Lon: 170˚43W**

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	86.8	76.1	81.5	95	1998	8	83.8	2000	69+	1976	17	79.2	1972	0	511	2.7	31.0	31.0	.0	.0	.0
Feb	87.2	76.3	81.8	96	1998	27	84.1	1994	70+	1978	28	78.9	1974	0	469	4.0	28.3	28.3	.0	.0	.0
Mar	87.3	76.6	82.0	95	1998	25	85.8	1998	69+	1971	9	79.5	1971	0	526	3.6	31.0	31.0	.0	.0	.0
Apr	86.9	76.3	81.6	95	1998	14	85.2	1998	68+	1979	22	79.3	1971	0	498	2.9	30.0	30.0	.0	.0	.0
May	85.6	76.2	80.9	93	2000	4	84.2	1998	66+	1974	26	78.4	1974	0	493	.9	31.0	31.0	.0	.0	.0
Jun	84.5	76.1	80.3	91	1995	10	83.6	1995	65+	1987	16	78.5	1971	0	460	.1	30.0	30.0	.0	.0	.0
Jul	83.8	75.5	79.7	91+	2001	3	82.4	1995	64+	1978	6	78.1	1971	0	454	@	31.0	31.0	.0	.0	.0
Aug	84.0	75.5	79.8	90+	2001	16	82.9	1998	64	1979	15	78.1	1974	0	457	.1	31.0	31.0	.0	.0	.0
Sep	84.8	75.8	80.3	92+	2000	26	82.6	1998	63	1970	2	78.4	1971	0	460	.5	30.0	30.0	.0	.0	.0
Oct	85.2	76.2	80.7	94	2001	24	83.7	1997	67+	1973	14	78.8	1973	0	486	.8	31.0	31.0	.0	.0	.0
Nov	85.8	76.5	81.2	95	1998	18	83.8	1997	68	1971	21	79.3	1978	0	485	1.7	30.0	30.0	.0	.0	.0
Dec	86.9	76.4	81.7	94+	2001	16	83.7+	2000	68+	1979	16	79.4	1975	0	515	3.9	31.0	31.0	.0	.0	.0
Ann	85.7	76.1	81.0	96	Feb 1998	27	85.8	Mar 1998	63	Sep 1970	2	78.1+	Aug 1974	0	5814	21.2	365.3	365.3	.0	.0	.0

\+ 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: 1966-2001

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

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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	14.02	13.07	6.89	1986	8	24.88	1986	5.69	1976
Feb	12.14	11.88	8.25	1990	3	30.25	1982	2.02	1998
Mar	11.15	9.79	5.25	1981	2	25.64	1978	4.01	1976
Apr	11.16	9.49	10.18	1975	29	28.35	1992	.74	1998
May	10.43	9.27	8.60	1999	12	29.10	1999	1.61	1983
Jun	5.94	5.56	5.54	1985	1	12.60	1985	1.97	1992
Jul	5.76	4.48	5.20	1981	26	15.68	1994	.72	1974
Aug	6.43	5.43	5.82	1978	10	17.22	1995	.29	1989
Sep	7.36	6.15	7.67	1972	7	25.29	1972	.63	1987
Oct	10.03	9.48	7.50	1967	9	29.59	1996	2.10	1975
Nov	11.16	9.66	6.36	1992	6	25.67	1978	3.22	1998
Dec	13.38	12.84	7.99	1991	9	26.95	1984	2.25	1995
Ann	118.96	121.61	10.18	Apr 1975	29	30.25	Feb 1982	.29	Aug 1989

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	24.3	17.7	8.4	3.8
Feb	21.4	15.1	6.8	3.6
Mar	23.2	16.3	6.5	2.8
Apr	21.4	13.9	6.7	3.4
May	19.9	13.1	5.7	2.9
Jun	18.2	9.8	3.4	1.5
Jul	18.4	9.4	3.2	1.7
Aug	17.8	9.2	3.3	1.6
Sep	17.2	10.1	3.8	2.0
Oct	21.5	13.0	5.8	3.1
Nov	20.4	13.7	6.7	3.7
Dec	22.9	14.9	7.7	4.2
Ann	246.6	156.2	68.0	34.3

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	6.53	7.76	9.44	10.81	12.07	13.35	14.70	16.26	18.20	21.15	23.80
Feb	4.64	5.77	7.39	8.73	10.00	11.30	12.71	14.34	16.41	19.60	22.51
Mar	4.05	5.10	6.61	7.88	9.08	10.32	11.66	13.22	15.22	18.29	21.11
Apr	2.73	3.78	5.40	6.85	8.28	9.80	11.49	13.50	16.14	20.31	24.22
May	2.45	3.42	4.95	6.31	7.67	9.11	10.72	12.64	15.17	19.17	22.93
Jun	1.78	2.64	3.57	4.29	4.95	5.62	6.33	7.16	8.20	9.79	11.24
Jul	1.24	1.77	2.62	3.38	4.15	4.97	5.89	7.00	8.45	10.78	12.97
Aug	.85	1.37	2.29	3.19	4.13	5.17	6.37	7.86	9.86	13.14	16.32
Sep	1.20	1.83	2.90	3.92	4.96	6.10	7.40	8.99	11.11	14.56	17.85
Oct	2.75	3.70	5.14	6.41	7.65	8.95	10.39	12.09	14.30	17.78	21.02
Nov	4.04	5.09	6.60	7.87	9.08	10.32	11.66	13.23	15.23	18.31	21.14
Dec	4.15	5.43	7.32	8.94	10.51	12.13	13.92	16.02	18.73	22.95	26.86
Ann	78.53	86.13	96.00	103.57	110.35	116.95	123.81	131.44	140.76	154.39	166.26

\+ 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: 1966-2001
(3) Derived from 1971-2000 daily data

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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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ 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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	>365	>365	>365	>365	>365	>365	>365	>365	>365
32	>365	>365	>365	>365	>365	>365	>365	>365	>365
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1534	1393	1549	1488	1516	1450	1477	1480	1450	1509	1475	1538	17859
55	821	749	836	798	803	760	764	767	760	796	785	825	9464
57	759	693	774	738	741	700	702	705	700	734	725	763	8734
60	666	609	681	648	648	610	609	612	610	641	635	670	7639
65	511	469	526	498	493	460	454	457	460	486	485	515	5814
70	356	329	371	348	338	310	299	302	310	331	335	360	3989

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	1301	1220	1307	1255	1276	1220	1235	1239	1221	1274	1247	1300	1301	2521	3828	5083	6359	7579	8814	10053	11274	12548	13795	15095
45	1146	1075	1152	1105	1121	1070	1080	1084	1071	1119	1097	1145	1146	2221	3373	4478	5599	6669	7749	8833	9904	11023	12120	13265
50	991	930	997	955	966	920	925	929	921	964	947	990	991	1921	2918	3873	4839	5759	6684	7613	8534	9498	10445	11435
55	836	785	842	805	811	770	770	774	771	809	797	835	836	1621	2463	3268	4079	4849	5619	6393	7164	7973	8770	9605
60	681	640	687	655	656	620	615	619	621	654	647	680	681	1321	2008	2663	3319	3939	4554	5173	5794	6448	7095	7775
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	963	904	976	930	960	916	925	928	917	958	936	968	963	1867	2843	3773	4733	5649	6574	7502	8419	9377	10313	11281

(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