

# Climatology of the United States

No. 20

1971-2000

Station: MAJURO AP, PI

COOP ID: 914460

Climate Division: PI 4

NWS Call Sign: MAJ

Elevation: 10 Feet

Lat: 7°05N

Lon: 171°23E

## 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	85.2	76.3	80.8	89+	1998	18	82.3	1997	69	1958	7	79.4	1976	0	487	.0	31.0	31.0	.0	.0	.0
Feb	85.6	76.6	81.1	89	1991	7	82.2	1998	70+	1985	28	79.4	1976	0	451	.0	28.3	28.3	.0	.0	.0
Mar	85.9	76.5	81.2	90+	1998	15	83.0	1998	70+	1993	8	79.6	1991	0	502	.1	31.0	31.0	.0	.0	.0
Apr	85.7	76.4	81.1	89+	1998	30	83.0	1998	70+	1985	18	79.5+	1976	0	482	.0	30.0	30.0	.0	.0	.0
May	86.0	76.5	81.3	90+	1992	17	83.0	1983	70	1985	6	80.0	1976	0	504	.1	31.0	31.0	.0	.0	.0
Jun	86.0	76.3	81.2	90	1998	20	82.3	1998	70+	1958	25	79.7	1975	0	485	@	30.0	30.0	.0	.0	.0
Jul	85.9	76.2	81.1	90	1980	20	82.8	1997	70+	1989	29	79.7	1975	0	498	@	31.0	31.0	.0	.0	.0
Aug	86.4	76.3	81.4	91+	1969	7	82.3	1994	71+	1990	2	79.9	1975	0	507	.3	31.0	31.0	.0	.0	.0
Sep	86.6	76.4	81.5	90+	2000	17	82.7	2000	70	1991	23	80.0	1975	0	496	.9	30.0	30.0	.0	.0	.0
Oct	86.6	76.3	81.5	91	1958	8	82.5	2000	70+	1984	23	78.8	1975	0	510	.7	31.0	31.0	.0	.0	.0
Nov	86.3	76.4	81.4	91	1990	17	82.6	1994	68	1991	28	79.4	1975	0	490	.5	30.0	30.0	.0	.0	.0
Dec	85.5	76.3	80.9	90+	1990	7	82.0+	2000	70+	1984	4	79.5	1975	0	493	.1	31.0	31.0	.0	.0	.0
Ann	86.0	76.4	81.2	91+	Nov 1990	17	83.0+	Apr 1998	68	Nov 1991	28	78.8	Oct 1975	0	5905	2.7	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/normal/usnormals.html](http://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: 1954-2001

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

056-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: MAJURO AP, PI**

**COOP ID: 914460**

**Climate Division: PI 4**

**NWS Call Sign: MAJ**

**Elevation: 10 Feet**

**Lat: 7°05N**

**Lon: 171°23E**

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	8.09	7.93	9.36	2000	27	23.83	2000	.78	1973	18.3	11.2	5.2	2.0	1.33	2.03	3.21	4.32	5.47	6.72	8.14	9.88	12.20	15.96	19.57
Feb	6.86	5.50	6.65	1991	28	20.93	2000	.20	1992	16.0	9.7	3.7	1.9	.50	.94	1.83	2.77	3.82	5.03	6.49	8.33	10.89	15.20	19.46
Mar	8.43	7.16	8.74	1991	1	29.54	1991	.15	1992	18.2	11.6	4.9	2.1	.70	1.27	2.38	3.55	4.83	6.30	8.06	10.26	13.31	18.41	23.43
Apr	11.30	11.19	6.63	1973	4	31.10	1971	.36	1992	20.4	13.1	6.3	3.8	1.47	2.38	3.99	5.56	7.22	9.05	11.18	13.80	17.35	23.17	28.80
May	11.53	11.33	8.08	1997	8	21.33	1997	1.49	1983	23.5	15.3	7.0	3.5	4.14	5.22	6.79	8.11	9.36	10.65	12.05	13.68	15.76	18.98	21.93
Jun	11.09	11.46	5.96	1983	27	17.63	1975	5.31	2000	23.9	16.6	6.6	3.5	5.28	6.24	7.56	8.61	9.60	10.58	11.63	12.82	14.32	16.59	18.62
Jul	12.41	12.53	5.39+	1971	22	21.17	1987	4.93	1997	24.1	17.0	7.7	4.0	6.44	7.46	8.84	9.94	10.94	11.94	13.00	14.21	15.70	17.94	19.94
Aug	11.95	11.71	5.23	1986	28	19.98	1986	6.05	1983	23.5	17.2	8.0	3.7	7.48	8.30	9.38	10.21	10.96	11.70	12.46	13.32	14.37	15.92	17.27
Sep	11.96	11.17	5.12	1972	24	19.73	1991	5.90	1992	22.6	16.1	7.4	3.8	5.72	6.76	8.17	9.31	10.37	11.42	12.55	13.83	15.44	17.87	20.05
Oct	13.73	13.68	8.39	1974	19	20.56	1978	6.17	1990	23.2	17.6	8.2	4.1	7.01	8.15	9.70	10.93	12.07	13.20	14.40	15.76	17.46	20.01	22.28
Nov	12.81	13.03	8.15	1957	17	23.56	1978	4.53	1972	22.6	16.3	7.7	4.1	6.38	7.46	8.93	10.11	11.20	12.28	13.43	14.74	16.38	18.84	21.05
Dec	11.50	11.39	14.98	1972	12	23.36	1972	2.77	1976	21.9	15.1	6.9	3.1	3.79	4.88	6.48	7.84	9.15	10.51	11.99	13.72	15.95	19.40	22.59
Ann	131.66	129.51	14.98	Dec 1972	12	31.10	Apr 1971	.15	Mar 1992	258.2	176.8	79.6	39.6	96.58	103.45	112.22	118.84	124.70	130.35	136.17	142.58	150.34	161.55	171.21

+ 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: 1954-2001

(3) Derived from 1971-2000 daily data

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Lon: 171°23E

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	.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

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	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	1510	1375	1525	1472	1527	1475	1521	1530	1486	1533	1480	1516	17950
55	797	731	812	782	814	785	808	817	796	820	790	803	9555
57	735	675	750	722	752	725	746	755	736	758	730	741	8825
60	642	591	657	632	659	635	653	662	646	665	640	648	7730
65	487	451	502	482	504	485	498	507	496	510	490	493	5905
70	332	311	347	332	349	335	343	352	346	355	340	338	4080

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	1270	1201	1288	1241	1290	1242	1282	1293	1257	1299	1252	1273	1270	2471	3759	5000	6290	7532	8814	10107	11364	12663	13915	15188
45	1115	1056	1133	1091	1135	1092	1127	1138	1107	1144	1102	1118	1115	2171	3304	4395	5530	6622	7749	8887	9994	11138	12240	13358
50	960	911	978	941	980	942	972	983	957	989	952	963	960	1871	2849	3790	4770	5712	6684	7667	8624	9613	10565	11528
55	805	766	823	791	825	792	817	828	807	834	802	808	805	1571	2394	3185	4010	4802	5619	6447	7254	8088	8890	9698
60	650	621	668	641	670	642	662	673	657	679	652	653	650	1271	1939	2580	3250	3892	4554	5227	5884	6563	7215	7868
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	959	905	966	930	967	931	961	964	934	962	932	960	959	1864	2830	3760	4727	5658	6619	7583	8517	9479	10411	11371

(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](http://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](http://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](http://www.ncdc.noaa.gov/normals.html)

U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html)

Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html)