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: KOROR, PI **COOP ID: 914351**

Climate Division: PI 4 **NWS Call Sign: ROR** **Elevation: 94 Feet** **Lat: 7˚20N** **Lon: 134˚29E**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	87.6	75.1	81.4	93+	2000	16	82.8	2000	69	1998	21	80.5	1983	0	507	4.3	31.0	31.0	.0	.0	.0
Feb	87.5	74.9	81.2	92+	2000	15	82.8	1999	71+	1993	23	80.1+	1993	0	454	3.5	28.3	28.3	.0	.0	.0
Mar	88.3	75.2	81.8	94	2000	20	82.6	1988	69	1953	25	80.9	1972	0	518	6.0	31.0	31.0	.0	.0	.0
Apr	88.8	75.8	82.3	94	2001	27	83.4	1988	69	1979	13	81.3	1979	0	518	11.4	30.0	30.0	.0	.0	.0
May	89.1	76.0	82.6	94+	2001	11	83.3+	1997	71	1996	6	81.8	1982	0	545	16.9	31.0	31.0	.0	.0	.0
Jun	88.1	75.4	81.8	95	1976	3	82.7	1973	71+	1999	10	80.5	1985	0	503	9.9	30.0	30.0	.0	.0	.0
Jul	87.5	75.3	81.4	93	1968	3	83.1	1998	70+	1994	11	80.0	1985	0	509	4.7	31.0	31.0	.0	.0	.0
Aug	87.5	75.7	81.6	94+	2001	30	83.3	1998	70+	1989	28	80.7+	1985	0	515	4.8	31.0	31.0	.0	.0	.0
Sep	88.0	76.0	82.0	92+	2001	30	83.4	1987	70+	2000	1	80.5	1985	0	509	7.8	30.0	30.0	.0	.0	.0
Oct	88.3	75.8	82.1	93+	1999	6	82.8	1994	71+	1998	16	80.9	1971	0	527	10.4	31.0	31.0	.0	.0	.0
Nov	89.0	75.9	82.5	93+	2000	22	83.4	1997	70+	1990	11	81.7	1978	0	524	14.4	30.0	30.0	.0	.0	.0
Dec	88.4	75.6	82.0	94	1998	22	83.1	1998	71+	1996	20	80.6	1992	0	526	10.0	31.0	31.0	.0	.0	.0
Ann	88.2	75.6	81.9	95	Jun 1976	3	83.4+	Nov 1997	69+	Jan 1998	21	80.0	Jul 1985	0	6155	104.1	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: 1953-2001

(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	11.20	9.80	13.72	1974	16	28.13	1974	2.11	1973
Feb	9.65	7.91	7.90	1980	17	27.13	1997	.64	1983
Mar	8.79	8.01	13.78	1991	10	21.98	1972	.50	1998
Apr	9.45	8.08	12.04	1976	7	27.69	1979	2.17	1998
May	11.27	10.54	8.20	1958	9	19.12	1982	4.61	1997
Jun	17.54	17.48	8.01	1990	23	33.83	1990	5.91	1976
Jul	16.99	17.27	8.21	1962	7	31.58	1991	7.52	1998
Aug	14.47	14.04	7.60	1962	2	33.11	1987	4.59	1997
Sep	11.65	12.00	5.55	1991	29	23.16	1985	1.04	1982
Oct	13.41	12.91	6.18	1957	6	22.47	1974	3.72	1994
Nov	11.62	11.03	7.08	1990	10	20.71	1990	4.17	1997
Dec	12.33	11.21	4.82	1988	3	21.10	1975	1.49	1990
Ann	148.37	152.81	13.78	Mar 1991	10	33.83	Jun 1990	.50	Mar 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	23.2	15.4	7.0	3.0
Feb	19.5	12.6	5.3	2.7
Mar	20.6	12.7	5.3	2.3
Apr	18.7	11.8	5.2	2.4
May	22.7	16.1	7.6	3.5
Jun	25.1	19.4	10.0	5.8
Jul	23.5	17.7	9.4	5.4
Aug	21.2	16.5	8.7	4.9
Sep	19.2	13.7	7.4	4.0
Oct	23.0	17.0	8.4	4.5
Nov	23.0	16.1	7.5	3.7
Dec	23.9	16.2	7.2	3.9
Ann	263.6	185.2	89.0	46.1

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	3.19	4.25	5.86	7.25	8.62	10.04	11.61	13.46	15.87	19.64	23.15
Feb	1.51	2.34	3.74	5.07	6.44	7.95	9.67	11.78	14.60	19.19	23.58
Mar	1.90	2.71	4.00	5.17	6.34	7.59	8.99	10.68	12.89	16.43	19.78
Apr	2.09	2.96	4.34	5.59	6.85	8.18	9.68	11.47	13.83	17.59	21.14
May	6.07	6.97	8.18	9.14	10.02	10.89	11.81	12.85	14.14	16.06	17.77
Jun	8.82	10.29	12.29	13.89	15.36	16.83	18.39	20.16	22.37	25.69	28.66
Jul	8.11	9.57	11.59	13.21	14.71	16.22	17.82	19.65	21.95	25.41	28.52
Aug	6.38	7.68	9.48	10.94	12.31	13.69	15.17	16.87	19.01	22.26	25.20
Sep	3.56	4.66	6.32	7.74	9.11	10.54	12.12	13.96	16.35	20.08	23.53
Oct	6.33	7.49	9.09	10.38	11.58	12.78	14.06	15.53	17.36	20.13	22.63
Nov	5.52	6.53	7.91	9.02	10.05	11.09	12.19	13.44	15.02	17.40	19.53
Dec	4.54	5.69	7.36	8.75	10.07	11.43	12.90	14.60	16.79	20.14	23.22
Ann	116.45	122.87	130.96	137.01	142.33	147.42	152.63	158.34	165.20	175.04	183.45

\+ 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: 1953-2001
(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	.0	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	.0	.0	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	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	.0	0	0	.0	0	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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

Complete documentation available from:
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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)

Heating Degree Days (1)

Base 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

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1530	1378	1541	1508	1568	1493	1532	1538	1499	1550	1514	1549	18200
55	817	734	828	818	855	803	819	825	809	837	824	836	9805
57	755	678	766	758	793	743	757	763	749	775	764	774	9075
60	662	594	673	668	700	653	664	670	659	682	674	681	7980
65	507	454	518	518	545	503	509	515	509	527	524	526	6155
70	352	314	363	368	390	353	354	360	359	372	374	371	4330

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	1291	1203	1302	1274	1332	1263	1295	1300	1266	1313	1283	1310	1291	2494	3796	5070	6402	7665	8960	10260	11526	12839	14122	15432
45	1136	1058	1147	1124	1177	1113	1140	1145	1116	1158	1133	1155	1136	2194	3341	4465	5642	6755	7895	9040	10156	11314	12447	13602
50	981	913	992	974	1022	963	985	990	966	1003	983	1000	981	1894	2886	3860	4882	5845	6830	7820	8786	9789	10772	11772
55	826	768	837	824	867	813	830	835	816	848	833	845	826	1594	2431	3255	4122	4935	5765	6600	7416	8264	9097	9942
60	671	623	682	674	712	663	675	680	666	693	683	690	671	1294	1976	2650	3362	4025	4700	5380	6046	6739	7422	8112
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	956	889	960	931	963	927	954	959	931	961	931	961	956	1845	2805	3736	4699	5626	6580	7539	8470	9431	10362	11323

(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