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: SALISBURY, MD **COOP ID: 188000**

Climate Division: MD 1 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 38˚22N** **Lon: 75˚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	46.1	28.3	37.2	75	1967	25	44.7	1990	-5+	1957	18	26.4	1977	862	0	.0	.0	11.4	3.2	20.9	.1
Feb	48.7	29.8	39.3	77+	1975	24	46.7	1976	2+	1961	2	28.0	1978	721	0	.0	.0	13.3	2.3	17.7	.0
Mar	57.2	36.8	47.0	88+	1990	14	51.5	2000	9	1960	11	42.2	1984	558	0	.0	.0	24.1	.2	10.6	.0
Apr	67.2	44.5	55.9	95	1960	26	61.6	1994	22	1995	6	51.0	1975	281	6	.0	.2	29.2	.0	1.9	.0
May	75.5	54.1	64.8	97	1962	19	71.4	1991	32	1966	11	61.4	1978	81	74	.0	1.2	31.0	.0	.0	.0
Jun	82.9	62.9	72.9	101	1959	30	77.0	1994	41+	1967	1	69.0	1972	6	242	.0	4.5	30.0	.0	.0	.0
Jul	86.9	68.0	77.5	101+	1952	23	81.4	1999	46	2001	7	74.2	1976	0	386	.1	10.5	31.0	.0	.0	.0
Aug	85.3	66.6	76.0	100	1949	11	78.8	1978	45+	1949	26	73.0	1976	0	339	.0	6.7	31.0	.0	.0	.0
Sep	79.9	60.0	70.0	97+	1980	2	74.5	1998	35	1956	21	66.9	1984	16	165	.0	1.8	30.0	.0	.0	.0
Oct	69.9	48.2	59.1	90+	1986	1	64.8	1971	26+	1969	24	53.6	1988	218	33	.0	.1	30.9	.0	1.1	.0
Nov	60.0	39.9	50.0	86	1950	1	56.8	1985	14	1989	24	42.6	1976	453	1	.0	.0	25.3	.0	7.3	.0
Dec	50.2	32.1	41.2	78	1998	7	47.9	1971	-4	1958	16	28.7	1989	740	0	.0	.0	16.6	1.8	16.6	.0
Ann	67.5	47.6	57.6	101+	Jun 1959	30	81.4	Jul 1999	-5+	Jan 1957	18	26.4	Jan 1977	3936	1246	.1	25.0	303.8	7.5	76.1	.1

\+ 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

Issue Date: February 2004

(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

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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	4.02	3.64	4.50	1998	28	8.18	1998	.74	1981
Feb	3.45	3.20	2.48	1994	11	7.36	1998	1.22	1978
Mar	4.55	4.04	3.80	2001	21	8.90	1994	.65	1986
Apr	3.34	3.31	3.65	1954	28	6.27	1989	.39	1985
May	3.67	3.65	2.29	1992	8	7.40	1971	.44	1986
Jun	3.62	3.37	3.78	1962	13	11.09	1972	.47	1988
Jul	4.54	4.35	5.85	1994	29	13.74	1994	.87	1993
Aug	4.72	4.26	6.81	1953	14	10.16	1973	.60	1984
Sep	3.99	3.53	5.90	1999	16	9.55	1999	.84	1980
Oct	3.43	2.99	5.60	1971	26	11.26	1976	.15	2000
Nov	3.17	2.92	2.50	1979	11	6.49	1997	.44	1991
Dec	3.47	3.67	2.36	1969	26	7.74	1977	.59	1988
Ann	45.97	44.94	6.81	Aug 1953	14	13.74	Jul 1994	.15	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.4	2.9	1.0
Feb	9.9	6.3	2.4	.8
Mar	11.2	7.8	3.4	1.1
Apr	10.4	6.4	2.3	.7
May	10.8	6.9	2.6	1.0
Jun	9.0	6.5	2.6	.9
Jul	10.5	6.8	2.8	1.4
Aug	9.3	6.2	3.1	1.6
Sep	8.2	5.3	2.4	1.1
Oct	7.8	5.1	2.3	1.1
Nov	9.3	5.6	2.0	1.0
Dec	10.6	7.0	2.5	.6
Ann	118.1	77.3	31.3	12.3

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	1.53	1.90	2.44	2.88	3.31	3.74	4.21	4.75	5.44	6.51	7.48
Feb	1.27	1.60	2.06	2.45	2.82	3.20	3.61	4.08	4.69	5.63	6.48
Mar	1.36	1.79	2.44	3.00	3.54	4.10	4.72	5.46	6.40	7.88	9.25
Apr	1.16	1.47	1.93	2.32	2.69	3.07	3.49	3.97	4.59	5.55	6.44
May	1.13	1.48	2.00	2.44	2.87	3.32	3.81	4.39	5.14	6.30	7.38
Jun	.88	1.22	1.75	2.22	2.69	3.18	3.73	4.38	5.24	6.59	7.86
Jul	.95	1.37	2.03	2.64	3.25	3.90	4.64	5.52	6.68	8.55	10.31
Aug	1.16	1.61	2.29	2.90	3.51	4.15	4.86	5.71	6.82	8.57	10.22
Sep	.93	1.30	1.89	2.41	2.93	3.48	4.10	4.84	5.81	7.34	8.79
Oct	.64	.94	1.44	1.91	2.38	2.90	3.48	4.18	5.11	6.61	8.04
Nov	.93	1.23	1.69	2.08	2.46	2.85	3.29	3.80	4.46	5.50	6.47
Dec	.98	1.31	1.81	2.24	2.67	3.11	3.60	4.18	4.93	6.10	7.20
Ann	33.52	35.95	39.05	41.40	43.48	45.48	47.55	49.82	52.58	56.57	60.00

\+ 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

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(2) Derived from station's available digital record: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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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	1.3	.5	1	0
Feb	1.4	.0	#	0
Mar	.6	.0	#	0
Apr	#	.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
Nov	#	.0	#	0
Dec	.6	.0	#	0
Ann	3.9	.5	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	5.5	1982	15	5.5	1982	17	1987	28	4	1980
Feb	20.0	1979	19	20.0	1979	18	1996	4	4	1996
Mar	3.5	1999	9	3.5	1999	4	1999	9	#+	1999
Apr	#	1982	6	#+	1982	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	#	1972	19	#	1972	0	0	0	0	0
Nov	#	1996	14	#+	1996	#	1996	14	#	1996
Dec	5.5	1982	12	5.5	1982	6	1995	7	#+	1997
Ann	20.0	Feb 1979	19	20.0	Feb 1979	18	Feb 1996	4	4+	Feb 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.9	.1	.1	.0
Feb	.7	.5	.3	.2	.1
Mar	.2	.2	.1	.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	.3	.1	.1	.1	.0
Ann	2.3	1.7	.6	.4	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.0	.9	.3	.0
Feb	.2	.0	.0	.0
Mar	.1	@	.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	.1	.0	.0	.0
Ann	2.4	.9	.3	.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	5/06	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/06
32	4/17	4/13	4/10	4/08	4/05	4/03	4/01	3/29	3/25
28	4/06	4/01	3/28	3/25	3/22	3/19	3/15	3/12	3/06
24	3/29	3/24	3/20	3/16	3/13	3/09	3/06	3/02	2/24
20	3/16	3/08	3/03	2/26	2/22	2/17	2/13	2/07	1/30
16	3/04	2/24	2/19	2/15	2/10	2/06	2/01	1/26	1/14

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	10/08	10/12	10/16	10/18	10/21	10/24	10/26	10/30	11/03
32	10/14	10/20	10/24	10/27	10/30	11/02	11/06	11/10	11/15
28	10/26	11/02	11/06	11/10	11/14	11/17	11/21	11/26	12/02
24	11/17	11/22	11/26	11/30	12/03	12/06	12/10	12/14	12/19
20	12/02	12/07	12/11	12/14	12/17	12/20	12/23	12/27	1/01
16	12/07	12/16	12/22	12/28	1/02	1/08	1/14	1/22	2/05

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	205	197	192	187	182	178	173	167	159
32	230	222	216	212	207	203	198	192	184
28	263	254	247	242	236	231	225	218	209
24	287	279	274	269	265	260	256	250	242
20	325	315	309	303	298	292	286	280	270
16	>365	358	341	332	325	318	311	304	294

***** 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	862	721	558	281	81	6	0	0	16	218	453	740	3936
60	707	581	404	156	25	0	0	0	3	119	314	592	2901
57	618	504	319	98	9	0	0	0	1	76	238	505	2368
55	561	451	264	68	4	0	0	0	0	53	193	449	2043
50	419	325	150	20	0	0	0	0	0	17	104	319	1354
32	77	46	3	0	0	0	0	0	0	0	1	44	171

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	239	249	469	715	1016	1227	1409	1362	1139	837	540	327	9529
55	9	9	16	93	307	537	696	649	449	177	41	18	3001
57	5	6	9	63	250	477	634	587	390	138	26	13	2598
60	0	0	2	31	173	387	541	494	301	88	12	6	2035
65	0	0	0	6	74	242	386	339	165	33	1	0	1246
70	0	0	0	0	21	121	237	190	60	8	0	0	637

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	90	117	262	489	780	1000	1178	1128	911	607	322	143	90	207	469	958	1738	2738	3916	5044	5955	6562	6884	7027
45	40	59	151	344	625	850	1023	973	761	454	202	74	40	99	250	594	1219	2069	3092	4065	4826	5280	5482	5556
50	16	26	80	219	470	700	868	818	611	305	115	35	16	42	122	341	811	1511	2379	3197	3808	4113	4228	4263
55	1	6	34	117	321	550	713	663	461	179	54	7	1	7	41	158	479	1029	1742	2405	2866	3045	3099	3106
60	0	0	11	55	184	401	558	508	317	91	19	0	0	0	11	66	250	651	1209	1717	2034	2125	2144	2144
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	51	69	152	290	487	684	827	792	612	367	183	77	51	120	272	562	1049	1733	2560	3352	3964	4331	4514	4591

(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:
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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