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 FAA ARPT, MD **COOP ID: 188005**

Climate Division: MD 5 **NWS Call Sign: SBY** **Elevation: 50 Feet** **Lat: 38˚20N** **Lon: 75˚31W**

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	44.7	26.7	35.7	75	1950	25	43.4	1990	-8	1957	18	23.9	1977	908	0	.0	.0	10.3	4.6	22.6	.3
Feb	47.3	28.4	37.9	79	1997	27	46.1	1976	-2+	1971	2	26.4	1979	761	0	.0	.0	11.6	3.2	19.5	.2
Mar	55.7	35.3	45.5	88	1990	14	51.2	1973	9	1980	4	40.4	1996	605	0	.0	.0	21.5	.4	13.5	.0
Apr	65.5	43.0	54.3	94+	1985	22	59.6	1994	22	1969	1	48.9	1975	325	2	.0	.2	28.5	.0	3.4	.0
May	74.1	52.6	63.4	96	1962	19	68.4	1991	32+	1956	9	59.7	1992	104	52	.0	1.1	31.0	.0	@	.0
Jun	82.5	61.9	72.2	100	1952	26	75.8	1994	37	1966	2	68.3	1979	7	222	.0	4.6	30.0	.0	.0	.0
Jul	87.0	67.6	77.3	102+	1977	21	80.6+	1995	45	2001	3	73.4	2000	0	381	.2	10.9	31.0	.0	.0	.0
Aug	85.1	65.9	75.5	100+	1948	27	80.3	1978	45+	1952	24	71.5	1981	0	326	.0	6.6	31.0	.0	.0	.0
Sep	79.2	59.0	69.1	99	1995	1	73.2	1977	34	1956	21	66.2	1984	23	145	.0	1.9	30.0	.0	.0	.0
Oct	68.8	46.4	57.6	92	1997	6	65.5	1971	23	2001	29	52.3	1988	255	26	.0	.1	30.7	.0	2.0	.0
Nov	59.0	38.2	48.6	85	1950	1	56.0	1985	13	1989	24	41.3	1976	492	1	.0	.0	24.6	.1	10.2	.0
Dec	49.4	30.6	40.0	77+	1998	6	46.8	1972	-6	1958	16	27.7	1989	774	0	.0	.0	14.9	2.0	19.3	.1
Ann	66.5	46.3	56.4	102+	Jul 1977	21	80.6+	Jul 1995	-8	Jan 1957	18	23.9	Jan 1977	4254	1155	.2	25.4	295.1	10.3	90.5	.6

+ 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

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Climate Division: MD 5 **NWS Call Sign: SBY** **Elevation: 50 Feet** **Lat: 38˚20N** **Lon: 75˚31W**

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	4.09	3.70	4.48	1998	28	8.59	1979	.49	1981
Feb	3.56	3.47	2.40	1996	3	6.91	1998	1.11	1978
Mar	4.62	4.20	3.47+	1979	6	9.29	1994	.65	1986
Apr	3.41	3.23	2.24	1980	27	6.30	1983	.56	1985
May	3.87	3.88	2.57	1995	25	6.96	1978	.48	1986
Jun	3.57	3.25	3.77	1979	4	9.27	1972	.38	1988
Jul	4.54	4.42	4.20	1989	16	10.42	1975	.92	1993
Aug	4.99	5.02	5.23	1955	12	10.28	1985	.58	1987
Sep	3.73	3.48	5.44	1960	12	9.47	1979	.50	1978
Oct	3.64	3.09	4.93	1980	25	9.13	1976	.13	2000
Nov	3.30	3.08	2.84	1979	11	6.98	1997	.63	1991
Dec	3.72	3.59	3.56	1977	18	8.33	1977	.69	1988
Ann	47.04	46.12	5.44	Sep 1960	12	10.42	Jul 1975	.13	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	7.3	3.0	1.0
Feb	10.1	6.8	2.5	.8
Mar	11.0	7.3	3.1	1.1
Apr	10.0	6.3	2.2	1.0
May	10.6	6.6	2.6	1.0
Jun	9.5	6.6	2.4	.7
Jul	10.0	6.7	2.8	1.3
Aug	9.1	6.0	3.0	1.6
Sep	7.9	5.2	2.5	1.2
Oct	7.7	5.0	2.3	1.2
Nov	9.0	6.1	2.1	.8
Dec	10.6	6.8	2.8	.8
Ann	116.4	76.7	31.3	12.5

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	1.29	1.68	2.25	2.75	3.22	3.71	4.25	4.89	5.70	6.97	8.15
Feb	1.26	1.59	2.08	2.49	2.88	3.28	3.72	4.23	4.88	5.88	6.81
Mar	1.40	1.84	2.49	3.06	3.61	4.17	4.80	5.54	6.49	7.97	9.35
Apr	1.33	1.65	2.09	2.47	2.82	3.18	3.57	4.02	4.59	5.46	6.26
May	1.08	1.45	2.00	2.49	2.96	3.46	4.00	4.65	5.49	6.82	8.05
Jun	.90	1.24	1.76	2.22	2.67	3.15	3.68	4.32	5.15	6.45	7.68
Jul	1.08	1.50	2.17	2.76	3.35	3.97	4.67	5.50	6.59	8.32	9.95
Aug	1.21	1.67	2.40	3.05	3.70	4.38	5.14	6.05	7.23	9.12	10.88
Sep	.73	1.07	1.62	2.12	2.63	3.18	3.80	4.54	5.53	7.11	8.61
Oct	.72	1.05	1.58	2.07	2.57	3.10	3.71	4.43	5.40	6.94	8.41
Nov	.96	1.27	1.74	2.15	2.55	2.97	3.42	3.96	4.66	5.76	6.78
Dec	1.02	1.37	1.91	2.38	2.84	3.32	3.85	4.48	5.30	6.58	7.78
Ann	34.57	37.02	40.13	42.48	44.56	46.56	48.63	50.90	53.65	57.63	61.05

\+ 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

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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	3.6	1.3	#	0
Feb	3.9	1.3	#	0
Mar	1.3	.0	#	0
Apr	.2	.0	#	0
May	.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	.4	.0	#	0
Dec	1.4	.0	#	0
Ann	10.8	2.6	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	10.1	1987	26	19.8	1987	18	1987	27	3	1987
Feb	11.7	1996	2	27.1	1996	18+	1996	5	3	1996
Mar	5.0	1999	9	6.7	1978	6	1980	2	#	1999
Apr	2.2	1996	9	2.6	1996	1	1972	8	#	1972
May	.0	0	0	.0	0	0	0	0	#	2000
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	#	1979	10	#+	1979	0	0	0	0	0
Nov	6.7	1976	12	6.7	1976	1+	1989	25	#	1989
Dec	10.0	1989	8	20.2	1989	11	1989	13	2	1989
Ann	11.7	Feb 1996	2	27.1	Feb 1996	18+	Feb 1996	5	3+	Feb 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.0	1.2	.3	.2	@
Feb	1.9	1.2	.4	.3	@
Mar	.8	.6	.2	@	.0
Apr	.3	.1	.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	.1	.1	@	@	.0
Dec	.8	.3	.3	.1	@
Ann	5.9	3.5	1.2	.6	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.2	1.2	.4	.2
Feb	3.1	1.3	.6	.2
Mar	.7	.2	.1	.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	.0
Nov	.2	.0	.0	.0
Dec	1.5	.6	.3	.1
Ann	8.7	3.3	1.4	.5

+ 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	5/10	5/05	5/02	4/30	4/27	4/25	4/22	4/19	4/15
32	4/24	4/20	4/16	4/13	4/11	4/08	4/05	4/02	3/28
28	4/14	4/08	4/05	4/02	3/30	3/27	3/23	3/20	3/14
24	3/27	3/22	3/19	3/17	3/14	3/12	3/09	3/06	3/02
20	3/21	3/15	3/10	3/07	3/03	2/28	2/24	2/20	2/13
16	3/10	3/01	2/24	2/19	2/14	2/09	2/04	1/28	1/19

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	10/03	10/07	10/10	10/12	10/15	10/17	10/19	10/22	10/26
32	10/12	10/17	10/21	10/24	10/27	10/29	11/01	11/05	11/10
28	10/23	10/29	11/02	11/05	11/09	11/12	11/15	11/19	11/25
24	11/09	11/15	11/19	11/22	11/25	11/29	12/02	12/06	12/11
20	11/27	12/03	12/07	12/10	12/14	12/17	12/20	12/25	12/30
16	12/05	12/11	12/16	12/20	12/24	12/28	1/02	1/07	1/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	188	182	177	173	170	166	162	157	151
32	219	212	207	202	198	194	190	185	177
28	245	238	232	228	223	219	214	209	202
24	275	268	263	259	255	251	247	242	235
20	309	301	295	290	285	280	275	269	261
16	>365	337	326	318	311	305	298	290	279

***** 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	908	761	605	325	104	7	0	0	23	255	492	774	4254
60	753	621	450	190	35	0	0	0	4	148	351	620	3172
57	660	540	360	124	14	0	0	0	1	99	272	535	2605
55	606	489	303	87	6	0	0	0	0	73	224	476	2264
50	462	360	176	28	0	0	0	0	0	28	126	340	1520
32	99	60	4	0	0	0	0	0	0	0	2	46	211

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	214	222	422	667	972	1205	1404	1349	1112	794	501	294	9156
55	8	7	8	64	265	515	691	636	423	154	32	12	2815
57	0	3	3	41	210	455	629	574	363	118	20	8	2424
60	0	0	0	17	138	365	536	481	276	74	10	1	1898
65	0	0	0	2	52	222	381	326	145	26	1	0	1155
70	0	0	0	0	12	105	231	182	50	6	0	0	586

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	76	97	222	437	730	973	1165	1107	878	552	287	126	76	173	395	832	1562	2535	3700	4807	5685	6237	6524	6650
45	35	51	128	297	575	823	1010	952	728	404	179	65	35	86	214	511	1086	1909	2919	3871	4599	5003	5182	5247
50	15	22	64	180	422	673	855	797	578	265	98	32	15	37	101	281	703	1376	2231	3028	3606	3871	3969	4001
55	1	8	29	96	278	523	700	642	428	151	51	5	1	9	38	134	412	935	1635	2277	2705	2856	2907	2912
60	0	0	9	42	157	375	545	487	291	73	18	1	0	0	9	51	208	583	1128	1615	1906	1979	1997	1998
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	43	57	133	260	449	656	811	770	580	339	169	72	43	100	233	493	942	1598	2409	3179	3759	4098	4267	4339

(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