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: FLOYD 2 NE, VA **COOP ID: 443071**

Climate Division: VA 6 **NWS Call Sign:** **Elevation: 2,625 Feet** **Lat: 36˚56N** **Lon: 80˚17W**

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	40.7	19.3	30.0	72+	1952	2	41.5	1974	-19	1985	21	17.2	1977	1086	0	.0	.0	9.0	5.6	26.5	1.2
Feb	45.2	20.6	32.9	75	1977	26	39.9	1990	-15	1996	5	23.0	1978	900	0	.0	.0	12.7	3.2	22.7	.5
Mar	52.9	27.8	40.4	83+	1986	31	46.0	2000	-7	1993	15	35.5	1996	764	0	.0	.0	22.1	.7	18.7	.1
Apr	62.3	35.1	48.7	87	1976	18	54.8	1999	0	1982	7	45.0	1982	490	0	.0	.0	28.0	.0	10.5	@
May	70.3	45.3	57.8	90	1996	21	62.5	1991	22	1983	10	53.9	1994	239	15	.0	@	30.9	.0	2.8	.0
Jun	77.1	53.5	65.3	95+	1952	27	69.0	1981	30+	1977	8	61.0	1972	62	72	.0	.1	30.0	.0	.1	.0
Jul	80.9	58.1	69.5	100+	1954	14	73.3	1999	36+	1962	27	67.2	1976	9	149	.0	1.7	31.0	.0	.0	.0
Aug	79.9	55.8	67.9	97	1983	20	70.8	1995	32	1986	30	64.3	1976	19	107	.0	.8	31.0	.0	@	.0
Sep	73.7	49.3	61.5	97	1954	6	65.3	1998	24	1983	24	57.8	1976	129	24	.0	.1	30.0	.0	.9	.0
Oct	64.8	37.2	51.0	89	1951	5	58.2	1984	15+	1969	29	44.9	1988	436	2	.0	.0	29.8	.0	9.7	.0
Nov	53.9	28.8	41.4	80	1950	1	50.0	1985	-2	1950	25	34.4	1976	710	0	.0	.0	21.2	.4	18.0	.0
Dec	44.9	22.2	33.6	74	1998	7	41.0	1971	-13	1962	13	23.8	1989	976	0	.0	.0	12.1	3.2	24.3	.5
Ann	62.2	37.8	50.0	100+	Jul 1954	14	73.3	Jul 1999	-19	Jan 1985	21	17.2	Jan 1977	5820	369	.0	2.7	287.8	13.1	134.2	2.3

\+ 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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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	3.13	2.97	3.50	1995	15	7.84	1995	.78	1981
Feb	2.79	2.89	3.00	1999	24	5.97	1998	.40	1978
Mar	3.85	3.92	3.35	1977	13	8.35	1975	.66	1988
Apr	3.76	3.41	3.43	1983	10	9.34	1987	1.03	1995
May	4.09	4.18	2.93	1987	25	9.56	1971	.82	1997
Jun	3.83	2.84	5.69	1972	21	10.50	1972	.20	1986
Jul	3.21	2.97	3.79	1990	15	6.95	1990	.40	1999
Aug	3.06	2.45	5.16	1985	18	7.96	1985	.23	1999
Sep	3.77	2.91	7.25	1959	30	12.29	1979	.38	1998
Oct	3.37	2.66	5.60	1954	15	10.36	1990	.00	2000
Nov	3.42	3.33	5.87	1985	5	10.39	1985	.23	1981
Dec	2.51	2.42	3.00	1950	7	5.84	1973	.10	1988
Ann	40.79	41.29	7.25	Sep 1959	30	12.29	Sep 1979	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.4	6.1	2.2	.5
Feb	8.0	5.6	2.2	.9
Mar	9.0	6.7	2.8	1.1
Apr	8.9	6.6	2.3	1.0
May	11.3	7.7	2.7	1.0
Jun	9.9	6.7	2.4	1.0
Jul	10.6	6.9	1.9	.6
Aug	8.2	5.6	2.1	.6
Sep	7.8	5.5	2.4	1.1
Oct	6.6	4.8	2.2	.9
Nov	7.6	5.4	2.6	1.0
Dec	7.9	5.2	1.9	.5
Ann	104.2	72.8	27.7	10.2

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	.83	1.13	1.58	1.98	2.37	2.78	3.24	3.78	4.49	5.60	6.63
Feb	.85	1.11	1.51	1.85	2.18	2.53	2.90	3.35	3.92	4.82	5.65
Mar	1.13	1.49	2.04	2.52	2.98	3.47	4.00	4.63	5.44	6.72	7.90
Apr	1.27	1.62	2.14	2.59	3.01	3.45	3.92	4.48	5.20	6.31	7.33
May	1.31	1.70	2.28	2.77	3.24	3.73	4.26	4.89	5.70	6.96	8.12
Jun	.46	.76	1.30	1.83	2.40	3.03	3.76	4.67	5.91	7.94	9.91
Jul	.86	1.17	1.63	2.04	2.44	2.86	3.32	3.87	4.59	5.72	6.77
Aug	.57	.85	1.29	1.71	2.13	2.59	3.11	3.73	4.56	5.90	7.17
Sep	.32	.57	1.07	1.59	2.17	2.82	3.61	4.59	5.95	8.23	10.47
Oct	.33	.72	1.28	1.77	2.27	2.81	3.42	4.17	5.16	6.76	8.28
Nov	.70	1.01	1.51	1.97	2.43	2.93	3.49	4.16	5.05	6.48	7.83
Dec	.40	.61	.98	1.32	1.68	2.07	2.52	3.07	3.80	4.98	6.12
Ann	28.96	31.25	34.19	36.42	38.40	40.32	42.30	44.48	47.14	50.99	54.32

\+ 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	3.5	1.0	#	0
Feb	5.8	3.5	#	0
Mar	2.3	.5	#	0
Apr	.9	.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	.9	.0	#	0
Dec	1.6	.0	#	0
Ann	15.0	5.0	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	6.0	1975	21	10.0	1981	5	1973	9	#+	1973
Feb	12.0	1979	19	19.0	1979	7	1972	19	1	1972
Mar	12.0	1981	23	12.0	1981	7	1980	2	#+	1999
Apr	6.0	1971	7	7.0	1987	6	1971	7	#	1971
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	1.0	1974	20	1.0	1974	0	0	0	0	0
Nov	4.5	1971	25	9.0	1971	5	1971	25	#+	1974
Dec	7.0	1993	16	11.0	1981	5	1973	17	#+	1997
Ann	12.0+	Mar 1981	23	19.0	Feb 1979	7+	Mar 1980	2	1	Feb 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.9	.5	.3	.1	.0
Feb	1.3	.9	.3	.2	@
Mar	.5	.5	.1	.1	@
Apr	.3	.2	.2	@	.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
Nov	.4	.2	.2	.0	.0
Dec	.6	.5	.2	.2	.0
Ann	4.0	2.8	1.3	.6	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	6/11	6/05	5/31	5/28	5/24	5/20	5/16	5/12	5/05
32	6/02	5/27	5/23	5/20	5/16	5/13	5/09	5/05	4/29
28	5/15	5/10	5/06	5/03	5/01	4/28	4/25	4/21	4/16
24	4/29	4/24	4/20	4/16	4/13	4/10	4/06	4/02	3/28
20	4/15	4/10	4/06	4/03	3/30	3/27	3/24	3/20	3/14
16	4/05	3/29	3/23	3/19	3/14	3/10	3/06	2/28	2/21

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	9/02	9/08	9/12	9/15	9/19	9/22	9/26	9/30	10/06
32	9/16	9/20	9/24	9/26	9/29	10/02	10/04	10/08	10/12
28	9/25	9/30	10/03	10/05	10/08	10/10	10/13	10/16	10/20
24	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
20	10/17	10/23	10/27	10/31	11/04	11/07	11/11	11/15	11/21
16	10/29	11/06	11/11	11/16	11/21	11/25	11/30	12/06	12/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	144	135	128	122	117	112	106	99	90
32	156	149	144	139	135	131	127	121	114
28	178	171	167	163	160	156	152	148	142
24	218	209	202	196	191	186	181	174	165
20	240	232	227	222	217	213	208	203	195
16	286	274	265	257	251	244	236	228	215

***** 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	1086	900	764	490	239	62	9	19	129	436	710	976	5820
60	931	760	609	342	125	15	0	1	46	294	560	821	4504
57	838	676	516	257	75	5	0	0	21	218	471	728	3805
55	776	620	455	205	50	2	0	0	11	174	413	666	3372
50	632	483	312	98	13	0	0	0	2	88	278	519	2425
32	203	105	22	0	0	0	0	0	0	0	17	115	462

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	141	129	281	500	799	999	1163	1111	885	589	297	162	7056
55	0	0	1	15	136	311	450	398	206	50	4	0	1571
57	0	0	0	7	100	254	388	336	156	32	2	0	1275
60	0	0	0	2	57	174	295	244	92	15	0	0	879
65	0	0	0	0	15	72	149	107	24	2	0	0	369
70	0	0	0	0	2	16	47	25	2	0	0	0	92

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	39	60	171	346	603	796	944	900	688	394	160	65	39	99	270	616	1219	2015	2959	3859	4547	4941	5101	5166
45	11	23	87	220	448	646	789	745	538	250	86	30	11	34	121	341	789	1435	2224	2969	3507	3757	3843	3873
50	1	7	39	120	299	496	634	590	391	139	36	8	1	8	47	167	466	962	1596	2186	2577	2716	2752	2760
55	0	0	10	54	171	349	479	435	253	58	8	0	0	0	10	64	235	584	1063	1498	1751	1809	1817	1817
60	0	0	2	15	72	209	325	282	134	17	0	0	0	0	2	17	89	298	623	905	1039	1056	1056	1056
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	32	56	125	241	379	514	633	593	440	266	117	48	32	88	213	454	833	1347	1980	2573	3013	3279	3396	3444

(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 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