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: CRESTON, WV **COOP ID: 462054**

Climate Division: WV 2 **NWS Call Sign:** **Elevation: 650 Feet** **Lat: 38˚58N** **Lon: 81˚16W**

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	41.0	19.7	30.4	80	1950	26	40.5	1989	-30	1994	20	16.0	1977	1075	0	.0	.0	8.2	7.8	26.6	2.7
Feb	45.5	21.3	33.4	80	2000	27	40.6	1998	-20	1996	6	20.1	1978	885	0	.0	.0	10.6	5.0	23.6	2.0
Mar	55.9	28.3	42.1	90	1989	29	50.9	1973	-6+	1993	15	34.5	1984	709	0	.0	@	20.4	1.0	21.5	.2
Apr	66.7	36.2	51.5	95	1986	29	58.9	1986	12	1969	1	46.1	1975	409	4	.0	.4	27.3	@	11.9	.0
May	75.9	46.5	61.2	97	1949	20	69.2	1991	21+	1966	10	56.2	1997	191	74	.0	1.7	30.9	.0	2.0	.0
Jun	83.4	56.0	69.7	103	1988	26	75.4	1987	32+	1966	2	62.7	1972	35	176	.1	5.3	30.0	.0	.0	.0
Jul	86.6	61.1	73.9	106	1988	17	79.8	1987	42+	1963	9	68.7	1984	11	285	.5	9.4	31.0	.0	.0	.0
Aug	85.1	60.3	72.7	105	1988	18	79.6	1988	37+	1965	29	68.0	1982	16	255	.2	6.6	31.0	.0	.0	.0
Sep	78.9	52.9	65.9	104+	1953	2	70.8	1986	29	1983	24	60.3	1984	78	105	.0	2.0	30.0	.0	.1	.0
Oct	68.2	39.6	53.9	94	1953	1	60.9	1984	14	1952	21	47.8	1976	360	16	.0	@	30.3	.0	8.2	.0
Nov	56.4	30.8	43.6	86	1961	4	55.5	1985	2	1958	30	35.6	1976	642	0	.0	.0	20.4	.2	18.1	.0
Dec	45.6	24.1	34.9	80	1982	4	42.0	1984	-19+	1989	22	21.1	1989	934	0	.0	.0	11.2	4.4	24.0	.6
Ann	65.8	39.7	52.8	106	Jul 1988	17	79.8	Jul 1987	-30	Jan 1994	20	16.0	Jan 1977	5345	915	.8	25.4	281.3	18.4	136.0	5.5

+ 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

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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	3.63	3.18	2.38	1999	22	7.15	1996	1.22	2000
Feb	3.24	3.28	3.24	2000	19	6.54	1989	.79	1977
Mar	3.99	3.70	2.72	1967	6	8.47	1997	1.87	1971
Apr	3.36	3.52	2.10	1972	22	6.38	1972	.60	1971
May	4.54	4.56	2.15	1985	3	8.33	1996	1.22	1987
Jun	4.36	4.25	2.98	1998	28	9.91	1998	.41	1984
Jul	4.79	4.17	3.26	1983	24	11.97	1980	1.77	1993
Aug	4.16	3.93	4.44	1969	10	8.02	1980	1.46	1988
Sep	3.55	3.13	2.64	1996	7	8.49	1971	.26	1983
Oct	3.12	2.98	3.21	1954	16	7.88	1983	.43	1994
Nov	3.57	3.36	2.64	1985	5	8.63	1985	.95	1976
Dec	3.60	3.14	3.58	1978	9	10.23	1978	1.55	2000
Ann	45.91	45.10	4.44	Aug 1969	10	11.97	Jul 1980	.26	Sep 1983

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.7	8.8	2.3	.6
Feb	11.3	7.7	1.9	.4
Mar	12.7	8.9	2.7	.8
Apr	12.8	8.1	2.0	.5
May	12.7	8.8	3.4	.9
Jun	11.3	8.1	3.1	.8
Jul	11.2	8.5	3.5	1.1
Aug	9.8	7.3	2.7	1.1
Sep	8.7	6.2	2.5	1.0
Oct	9.8	6.4	2.1	.6
Nov	11.4	7.9	2.5	.6
Dec	12.5	8.0	2.2	.6
Ann	137.9	94.7	30.9	9.0

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	1.14	1.48	1.99	2.43	2.85	3.29	3.77	4.34	5.07	6.21	7.26
Feb	1.16	1.46	1.90	2.27	2.63	2.99	3.39	3.85	4.44	5.34	6.18
Mar	1.70	2.06	2.57	2.98	3.37	3.76	4.19	4.67	5.29	6.22	7.07
Apr	1.33	1.64	2.08	2.44	2.79	3.14	3.52	3.96	4.51	5.37	6.15
May	1.64	2.07	2.68	3.20	3.69	4.20	4.75	5.39	6.21	7.47	8.62
Jun	1.26	1.68	2.30	2.84	3.37	3.92	4.52	5.24	6.16	7.61	8.96
Jul	1.83	2.28	2.91	3.44	3.94	4.45	5.01	5.65	6.47	7.72	8.87
Aug	1.66	2.04	2.59	3.04	3.46	3.89	4.36	4.90	5.59	6.64	7.59
Sep	.84	1.18	1.70	2.16	2.62	3.11	3.65	4.30	5.15	6.51	7.78
Oct	.73	1.03	1.48	1.89	2.30	2.73	3.21	3.78	4.54	5.73	6.86
Nov	1.39	1.72	2.19	2.58	2.95	3.33	3.73	4.20	4.80	5.72	6.55
Dec	1.42	1.76	2.23	2.62	2.99	3.36	3.77	4.24	4.84	5.75	6.58
Ann	34.77	36.98	39.78	41.89	43.75	45.54	47.37	49.39	51.82	55.32	58.33

\+ 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	6.8	3.0	1	1
Feb	4.9	3.4	1	#
Mar	3.2	1.0	#	#
Apr	.4	.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	.6	.0	#	0
Dec	1.7	.8	#	#
Ann	17.6	8.2	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	11.5	1996	8	27.8	1994	18	1996	8	8	1978
Feb	7.5	1986	11	17.3	1979	13	1985	2	9	1978
Mar	10.0	1993	14	14.9	1993	15	1993	14	2	1993
Apr	5.0	1987	5	8.0	1987	8	1987	5	#+	1996
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	#	1977	17	#	1977	0	0	0	0	0
Nov	5.4	1995	15	6.8	1995	2	1995	16	#+	2000
Dec	3.0	1981	22	7.1	1993	5	1993	30	2	1989
Ann	11.5	Jan 1996	8	27.8	Jan 1994	18	Jan 1996	8	9	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.8	2.6	.7	.3	@
Feb	3.0	1.7	.5	.2	.0
Mar	1.5	.9	.5	.1	@
Apr	.2	.1	.1	@	.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	.6	.2	@	@	.0
Dec	2.7	1.0	.1	.0	.0
Ann	12.8	6.5	1.9	.6	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	4.7	1.9	.9	.3
Feb	2.7	.8	.4	.0
Mar	1.1	.4	.2	.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	@	.0	.0	.0
Dec	.9	.2	.0	.0
Ann	9.4	3.3	1.5	.3

+ 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	5/29	5/24	5/20	5/16	5/13	5/10	5/06	5/02	4/27
32	5/16	5/11	5/08	5/05	5/03	4/30	4/28	4/25	4/20
28	5/09	5/04	4/30	4/27	4/24	4/21	4/18	4/14	4/09
24	4/23	4/18	4/14	4/11	4/09	4/06	4/03	3/30	3/26
20	4/16	4/10	4/07	4/04	4/01	3/29	3/26	3/22	3/17
16	4/02	3/26	3/20	3/16	3/12	3/08	3/03	2/26	2/19

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	9/23	9/27	9/30	10/02	10/05	10/07	10/09	10/12	10/16
32	9/29	10/04	10/08	10/11	10/14	10/17	10/20	10/23	10/29
28	10/08	10/13	10/17	10/21	10/24	10/27	10/30	11/03	11/09
24	10/17	10/22	10/26	10/30	11/02	11/05	11/09	11/13	11/19
20	10/23	10/29	11/03	11/07	11/10	11/14	11/18	11/22	11/28
16	11/08	11/14	11/19	11/23	11/26	11/30	12/04	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	165	157	152	148	144	140	135	130	123
32	182	176	171	167	163	159	155	150	144
28	204	196	191	186	182	178	173	168	160
24	228	221	215	211	207	203	198	193	186
20	251	241	234	228	223	217	211	204	194
16	284	275	269	264	259	254	249	243	234

***** 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	1075	885	709	409	191	35	11	16	78	360	642	934	5345
60	920	745	558	273	107	9	0	2	29	235	497	779	4154
57	827	661	472	201	69	3	0	0	13	174	415	688	3523
55	770	606	415	160	49	2	0	0	7	138	361	633	3141
50	625	477	286	78	18	0	0	0	1	71	242	489	2287
32	211	123	32	0	0	0	0	0	0	0	20	120	506

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	159	162	345	585	906	1131	1297	1262	1016	680	368	209	8120
55	5	2	16	54	242	442	584	549	333	105	19	8	2359
57	0	0	11	36	199	384	522	487	279	78	13	2	2011
60	0	0	4	18	145	300	429	396	205	47	5	0	1549
65	0	0	0	4	74	176	285	255	105	16	0	0	915
70	0	0	0	0	30	85	161	140	41	3	0	0	460

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	41	57	171	364	665	896	1061	1022	784	442	187	68	41	98	269	633	1298	2194	3255	4277	5061	5503	5690	5758
45	12	26	93	244	510	746	906	867	634	302	111	31	12	38	131	375	885	1631	2537	3404	4038	4340	4451	4482
50	3	7	47	148	363	596	751	712	485	179	54	12	3	10	57	205	568	1164	1915	2627	3112	3291	3345	3357
55	0	0	21	78	229	451	596	557	343	92	20	0	0	0	21	99	328	779	1375	1932	2275	2367	2387	2387
60	0	0	4	34	127	306	441	402	214	41	4	0	0	0	4	38	165	471	912	1314	1528	1569	1573	1573
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	34	55	146	268	438	590	714	684	514	305	140	52	34	89	235	503	941	1531	2245	2929	3443	3748	3888	3940

(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