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: MOUNDSVILLE, WV **COOP ID: 466248**

Climate Division: WV 1 **NWS Call Sign:** **Elevation: 620 Feet** **Lat: 39˚54N** **Lon: 80˚45W**

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	38.0	20.1	29.1	74	1999	23	38.5	1990	-20	1994	19	15.0	1977	1115	0	.0	.0	5.3	9.7	26.5	2.1
Feb	41.8	21.8	31.8	78	2000	27	39.8	1998	-13	1977	8	18.9	1978	929	0	.0	.0	7.5	6.2	22.8	1.5
Mar	52.3	29.9	41.1	84	1998	31	48.6	1973	-3	1980	1	34.5	1984	741	0	.0	.0	18.2	1.3	19.8	@
Apr	63.7	39.0	51.4	92	1986	29	55.8	1985	11	1964	1	45.4	1975	411	2	.0	.1	26.4	@	9.0	.0
May	73.4	49.2	61.3	93	1991	30	69.8	1991	25	1966	10	56.2	1997	175	60	.0	.5	30.9	.0	1.0	.0
Jun	81.8	58.4	70.1	98+	1971	28	73.8	1991	36+	1977	8	65.6	1974	21	174	.0	3.8	30.0	.0	.0	.0
Jul	85.3	62.8	74.1	99+	1966	2	77.9	1999	44+	1965	21	70.7	1976	0	282	@	7.3	31.0	.0	.0	.0
Aug	84.0	61.5	72.8	99+	1983	21	77.5	1995	40+	1982	29	69.2	1976	8	249	.0	5.3	31.0	.0	.0	.0
Sep	77.6	54.4	66.0	96+	1964	10	71.1	1987	31	1983	27	61.6	1974	68	97	.0	1.4	30.0	.0	@	.0
Oct	65.8	41.7	53.8	87+	1969	13	61.4	1971	18	1969	24	47.3	1976	359	12	.0	.0	29.6	.0	4.2	.0
Nov	53.6	33.7	43.7	81	1982	3	49.4	1985	6	1976	30	35.7	1976	642	0	.0	.0	17.9	.4	15.7	.0
Dec	42.5	25.6	34.1	78	1982	4	41.0	1984	-11	1983	25	20.6	1989	959	0	.0	.0	8.4	5.2	23.3	.6
Ann	63.3	41.5	52.4	99+	Aug 1983	21	77.9	Jul 1999	-20	Jan 1994	19	15.0	Jan 1977	5428	876	@	18.4	266.2	22.8	122.3	4.2

\+ 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: 1963-2001

(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	2.85	2.63	1.68	1994	28	6.59	1999	.77	1983
Feb	2.32	2.49	2.25	1966	13	4.57	1975	.51	1978
Mar	3.27	3.07	1.66	1997	2	5.67+	1996	1.22	1981
Apr	3.48	3.55	1.71	1981	13	7.15	1981	.76	1971
May	4.22	4.41	2.50	1971	6	7.55	1996	1.40	1986
Jun	4.46	4.83	2.57	1968	11	10.40	1998	.82	1999
Jul	4.24	3.65	3.40	1999	2	8.10	1980	1.46	1987
Aug	4.09	3.93	5.01	1975	31	11.68	1975	1.07	1996
Sep	3.41	3.47	2.24	1965	12	6.43	1975	.51	1985
Oct	2.66	2.57	1.54	1975	18	6.05	1995	.56	1991
Nov	3.47	3.09	3.77	1985	5	15.97	1985	.63	1976
Dec	3.08	2.56	2.74	1991	3	7.31	1990	1.43	1971
Ann	41.55	40.65	5.01	Aug 1975	31	15.97	Nov 1985	.51+	Sep 1985

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.9	7.5	1.5	.3
Feb	11.5	6.5	1.3	.3
Mar	13.3	7.9	2.2	.5
Apr	13.3	8.4	2.2	.5
May	13.3	8.9	3.0	.6
Jun	11.8	8.3	3.2	1.0
Jul	10.5	7.5	3.0	.9
Aug	10.3	7.1	2.7	.9
Sep	10.5	6.7	2.3	1.0
Oct	10.3	6.3	1.8	.3
Nov	12.8	8.1	2.0	.4
Dec	12.9	7.4	1.7	.4
Ann	144.4	90.6	26.9	7.1

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	.87	1.14	1.55	1.89	2.23	2.58	2.96	3.42	4.00	4.91	5.75
Feb	.69	.91	1.24	1.53	1.81	2.10	2.41	2.79	3.27	4.03	4.73
Mar	1.31	1.62	2.04	2.39	2.72	3.06	3.42	3.84	4.38	5.19	5.93
Apr	1.37	1.69	2.15	2.53	2.88	3.25	3.64	4.10	4.68	5.56	6.37
May	1.75	2.13	2.67	3.12	3.54	3.96	4.42	4.94	5.61	6.62	7.55
Jun	1.18	1.60	2.24	2.81	3.37	3.96	4.61	5.39	6.40	7.99	9.47
Jul	1.75	2.14	2.69	3.14	3.56	3.99	4.45	4.98	5.65	6.68	7.61
Aug	1.26	1.65	2.23	2.73	3.21	3.70	4.25	4.90	5.73	7.02	8.22
Sep	1.24	1.56	2.02	2.41	2.78	3.16	3.57	4.04	4.65	5.58	6.44
Oct	.66	.91	1.30	1.64	1.98	2.34	2.74	3.21	3.83	4.82	5.74
Nov	.98	1.31	1.81	2.25	2.67	3.11	3.60	4.18	4.92	6.10	7.19
Dec	1.28	1.56	1.95	2.28	2.58	2.89	3.22	3.61	4.09	4.83	5.50
Ann	32.42	34.25	36.56	38.29	39.81	41.27	42.76	44.40	46.37	49.19	51.60

\+ 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: 1963-2001
(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	7.7	6.5	2	1
Feb	3.8	4.0	1	#
Mar	3.7	1.5	#	#
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	.3	.0	#	0
Dec	1.3	.7	#	#
Ann	16.8	12.7	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	12.0	1994	4	28.0	1994	28	1994	25	20	1994
Feb	7.0	1979	13	9.0	1981	15	1977	3	7	1979
Mar	20.0	1993	14	21.4	1993	21	1993	14	1+	1999
Apr	.5	1992	2	.5	1992	1	1992	2	#+	1997
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	1993	31	1.0	1993	1	1993	31	#	1993
Nov	4.0	1971	24	4.0	1971	4	1971	24	#+	2000
Dec	3.0	1974	1	4.5	1974	3	1984	6	3	1973
Ann	20.0	Mar 1993	14	28.0	Jan 1994	28	Jan 1994	25	20	Jan 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.0	2.2	.8	.2	.1
Feb	2.4	1.5	.8	.2	.0
Mar	1.0	.9	.5	.2	.1
Apr	@	.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
Nov	.2	.1	@	.0	.0
Dec	1.4	.5	.1	.0	.0
Ann	8.0	5.2	2.2	.6	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	8.3	5.4	2.9	2.4
Feb	5.2	3.8	3.0	.6
Mar	.7	.4	.3	.0
Apr	.1	.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	.1	.0	.0	.0
Nov	.3	.1	.0	.0
Dec	1.5	.1	.0	.0
Ann	16.2	9.8	6.2	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	5/22	5/17	5/13	5/10	5/07	5/04	5/01	4/27	4/22
32	5/13	5/09	5/05	5/02	4/30	4/27	4/24	4/21	4/16
28	4/29	4/24	4/21	4/18	4/15	4/12	4/09	4/06	4/01
24	4/18	4/13	4/09	4/06	4/03	3/31	3/28	3/24	3/19
20	4/09	4/03	3/30	3/26	3/22	3/19	3/15	3/11	3/04
16	3/27	3/20	3/16	3/12	3/08	3/04	3/01	2/24	2/17

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	9/28	10/01	10/04	10/06	10/08	10/09	10/11	10/14	10/17
32	10/05	10/10	10/13	10/16	10/19	10/21	10/24	10/27	11/01
28	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/09	11/14
24	10/22	10/28	11/02	11/06	11/09	11/13	11/17	11/21	11/28
20	11/03	11/11	11/16	11/21	11/25	11/30	12/04	12/10	12/17
16	11/21	11/28	12/03	12/07	12/10	12/14	12/18	12/23	12/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	171	165	160	156	153	149	145	140	134
32	190	184	179	175	171	167	163	159	152
28	218	211	206	202	198	194	190	185	178
24	247	238	231	225	220	214	209	202	193
20	279	268	260	253	247	241	234	226	215
16	301	293	287	281	276	272	266	260	252

***** 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	1115	929	741	411	175	21	0	8	68	359	642	959	5428
60	960	789	586	270	90	4	0	0	22	232	493	804	4250
57	867	705	497	195	54	1	0	0	9	168	407	711	3614
55	805	649	440	151	36	0	0	0	5	132	352	655	3225
50	661	518	303	67	10	0	0	0	1	64	226	511	2361
32	227	144	32	0	0	0	0	0	0	0	11	131	545

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	135	138	314	581	909	1142	1305	1264	1019	675	360	194	8036
55	0	0	9	42	232	453	592	551	334	94	11	6	2324
57	0	0	4	26	187	394	530	489	278	69	5	0	1982
60	0	0	0	11	130	306	437	396	201	39	1	0	1521
65	0	0	0	2	60	174	282	249	97	12	0	0	876
70	0	0	0	0	21	74	142	125	34	2	0	0	398

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	30	44	159	357	659	898	1057	1013	780	439	174	58	30	74	233	590	1249	2147	3204	4217	4997	5436	5610	5668
45	13	17	88	234	505	748	902	858	630	296	97	28	13	30	118	352	857	1605	2507	3365	3995	4291	4388	4416
50	2	2	45	137	357	598	747	703	482	178	45	6	2	4	49	186	543	1141	1888	2591	3073	3251	3296	3302
55	0	0	22	72	228	449	592	548	338	90	18	0	0	0	22	94	322	771	1363	1911	2249	2339	2357	2357
60	0	0	3	31	125	305	437	396	209	39	4	0	0	0	3	34	159	464	901	1297	1506	1545	1549	1549
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	24	38	115	234	415	594	716	691	502	274	109	34	24	62	177	411	826	1420	2136	2827	3329	3603	3712	3746

(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