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: MARLINTON, WV **COOP ID: 465672**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 2,150 Feet** **Lat: 38˚13N** **Lon: 80˚05W**

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	34.7	13.0	23.9	76	1937	8	33.5	1974	-24	1994	20	11.7	1977	1275	0	.0	.0	4.0	8.8	29.5	3.2
Feb	39.0	15.8	27.4	72	1996	28	34.1	1976	-22	1934	28	17.4	1978	1053	0	.0	.0	6.3	5.8	26.9	1.8
Mar	48.6	22.5	35.6	86	1939	26	40.8	1973	0	1934	1	30.5	1984	914	0	.0	.0	17.0	1.6	25.0	.2
Apr	58.8	30.6	44.7	92	1942	30	48.6	1985	13	1997	10	40.0	1997	609	0	.0	.0	25.0	.1	15.1	.0
May	66.9	39.4	53.2	97	1941	22	60.4	1991	24+	1926	5	47.7	1997	375	8	.0	.1	30.7	.0	1.9	.0
Jun	73.7	47.5	60.6	93	1940	7	64.0	1994	30	1930	1	55.4	1972	155	23	.0	.1	30.0	.0	.2	.0
Jul	77.5	52.4	65.0	97	1988	17	68.6	1993	36+	1929	21	61.7	1984	66	65	.0	.7	31.0	.0	.0	.0
Aug	76.6	51.4	64.0	96	1988	18	67.8	1995	34+	1930	12	60.3	1976	78	45	.0	.6	31.0	.0	.0	.0
Sep	71.2	44.5	57.9	92	1941	9	61.5	1980	24	1942	29	54.6	1974	219	5	.0	.2	29.9	.0	1.1	.0
Oct	61.5	31.6	46.6	90	1941	6	53.0	1984	8	1930	22	39.9	1988	572	0	.0	.0	28.9	.0	13.9	.0
Nov	49.8	23.0	36.4	76+	1938	2	43.3	1985	-4+	1929	30	29.1	1976	859	0	.0	.0	16.5	1.8	23.0	.1
Dec	38.9	17.0	28.0	70	1941	3	35.3	1984	-17+	1989	23	15.2	1989	1150	0	.0	.0	7.2	5.8	28.3	1.6
Ann	58.1	32.4	45.3	97+	Jul 1988	17	68.6	Jul 1993	-24	Jan 1994	20	11.7	Jan 1977	7325	146	.0	1.7	257.5	23.9	164.9	6.9

\+ 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: 1926-2001

(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	3.90	3.89	2.02	2000	4	7.02	1978	.84	1981
Feb	3.11	3.25	2.12	1932	4	5.40	1994	.59	1978
Mar	4.06	3.81	1.80	1932	28	7.32	1993	1.69	1988
Apr	3.09	2.63	3.51	1989	26	6.09	1987	1.20	1976
May	4.59	4.88	2.70	2001	20	7.01	1996	1.68	1977
Jun	3.35	3.17	2.70	1940	27	6.39	2000	.73	1988
Jul	4.05	3.79	3.79	1939	29	8.83	1991	2.12	1999
Aug	4.43	4.03	3.20	1942	8	7.96	1989	1.85	1981
Sep	3.16	2.86	2.40	1932	23	8.21	1987	.39	1985
Oct	2.90	2.77	2.50	1929	2	7.97	1976	.19	2000
Nov	3.39	3.28	2.02	1928	30	9.06	1985	1.05	1976
Dec	3.71	3.30	2.48	1948	15	7.71	1978	1.62+	1994
Ann	43.74	42.97	3.79	Jul 1939	29	9.06	Nov 1985	.19	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.5	7.9	2.7	.9
Feb	11.4	6.2	1.8	.5
Mar	14.5	9.2	2.7	.8
Apr	13.0	7.3	2.1	.6
May	14.2	8.5	2.8	.9
Jun	14.0	8.3	2.2	.6
Jul	14.0	8.6	2.6	1.0
Aug	11.3	6.7	2.5	1.1
Sep	11.4	5.8	2.1	.8
Oct	10.8	6.0	2.1	.7
Nov	11.4	6.8	2.2	.7
Dec	13.5	7.3	2.5	.8
Ann	154.0	88.6	28.3	9.4

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	1.39	1.75	2.29	2.73	3.16	3.59	4.07	4.62	5.33	6.43	7.43
Feb	1.15	1.44	1.86	2.21	2.54	2.88	3.25	3.68	4.22	5.06	5.83
Mar	1.70	2.07	2.59	3.01	3.41	3.82	4.25	4.76	5.39	6.36	7.24
Apr	1.24	1.52	1.92	2.25	2.57	2.89	3.23	3.63	4.13	4.91	5.61
May	2.25	2.64	3.17	3.60	4.00	4.40	4.82	5.30	5.90	6.80	7.61
Jun	1.10	1.42	1.89	2.28	2.66	3.06	3.49	3.99	4.64	5.65	6.58
Jul	1.96	2.30	2.78	3.16	3.51	3.87	4.24	4.67	5.21	6.02	6.75
Aug	2.12	2.50	3.02	3.45	3.84	4.23	4.65	5.13	5.73	6.63	7.44
Sep	.65	.94	1.40	1.83	2.25	2.71	3.22	3.84	4.65	5.95	7.19
Oct	.62	.88	1.31	1.69	2.08	2.50	2.96	3.52	4.26	5.44	6.56
Nov	1.37	1.68	2.12	2.49	2.83	3.18	3.55	3.99	4.54	5.38	6.14
Dec	1.41	1.75	2.25	2.66	3.05	3.45	3.88	4.38	5.02	6.00	6.90
Ann	34.52	36.37	38.71	40.46	41.99	43.46	44.96	46.61	48.58	51.41	53.83

\+ 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: 1926-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	4.5	-99.9	2	2
Feb	7.9	6.2	1	1
Mar	7.4	4.5	#	#
Apr	.6	.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	.1	.0	#	0
Nov	1.0	.0	#	#
Dec	7.6	5.3	1	1
Ann	29.1	-9.9	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	12.3	1996	7	22.4	1987	24	1996	12	8	1996
Feb	10.0	1987	23	18.6	1993	13	1987	23	5	1987
Mar	10.4	1993	14	25.5	1999	15	1993	14	3	1993
Apr	2.0	1990	7	2.0+	1996	7	1987	5	1	1987
May	.0	0	0	.0	0	#	1989	8	#	1989
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	1.4	1993	31	1.4	1993	1	1993	31	#+	1993
Nov	3.7	1995	14	4.2	1989	4	1995	14	1	1995
Dec	14.0	1997	30	24.5	1997	16	1997	30	6	1989
Ann	14.0	Dec 1997	30	25.5	Mar 1999	24	Jan 1996	12	8	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.8	3.7	1.5	.9	.2
Feb	3.6	2.6	.9	.4	.1
Mar	2.9	2.5	.7	.4	.1
Apr	.6	.4	.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	.1	.1	.0	.0	.0
Nov	1.1	.5	.1	.0	.0
Dec	3.8	3.1	.7	.3	.1
Ann	16.9	12.9	3.9	2.0	.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	9.3	3.8	1.7	.0
Mar	3.8	1.6	.6	.2
Apr	.4	.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	.8	.2	.0	.0
Dec	4.7	1.8	.7	.2
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	6/18	6/09	6/03	5/28	5/23	5/18	5/13	5/06	4/28
32	5/31	5/24	5/19	5/14	5/10	5/06	5/02	4/26	4/19
28	5/17	5/11	5/06	5/02	4/28	4/24	4/20	4/16	4/09
24	5/02	4/27	4/24	4/21	4/18	4/15	4/12	4/08	4/03
20	4/24	4/18	4/14	4/10	4/07	4/04	3/31	3/27	3/21
16	4/13	4/07	4/03	3/30	3/26	3/23	3/19	3/14	3/08

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	9/09	9/15	9/19	9/22	9/25	9/28	10/02	10/06	10/11
32	9/21	9/25	9/28	10/01	10/03	10/06	10/08	10/11	10/15
28	9/26	10/01	10/05	10/08	10/11	10/14	10/17	10/20	10/25
24	10/06	10/11	10/15	10/18	10/21	10/24	10/27	10/30	11/04
20	10/18	10/23	10/27	10/31	11/03	11/06	11/10	11/14	11/19
16	10/21	10/29	11/04	11/09	11/14	11/18	11/23	11/29	12/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	145	137	130	124	118	111	103	92
32	172	163	156	151	145	140	134	127	118
28	190	182	175	170	165	160	154	148	139
24	208	200	194	190	185	181	176	170	163
20	234	225	219	214	209	205	199	193	185
16	266	254	246	238	232	225	217	209	197

***** 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	1275	1053	914	609	375	155	66	78	219	572	859	1150	7325
60	1120	913	759	460	241	65	13	15	102	420	709	995	5812
57	1027	829	666	371	174	32	4	4	54	334	619	902	5016
55	965	773	604	313	136	18	0	0	34	280	559	840	4522
50	810	633	451	181	62	3	0	0	7	165	413	685	3410
32	310	188	63	1	0	0	0	0	0	4	52	216	834

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	57	59	172	382	656	858	1022	991	776	455	183	90	5701
55	0	0	0	4	79	187	309	278	119	18	0	0	994
57	0	0	0	2	55	141	251	220	80	10	0	0	759
60	0	0	0	0	29	84	167	138	38	4	0	0	460
65	0	0	0	0	8	23	65	45	5	0	0	0	146
70	0	0	0	0	0	3	12	7	0	0	0	0	22

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	9	17	94	251	520	717	902	856	642	317	92	26	9	26	120	371	891	1608	2510	3366	4008	4325	4417	4443
45	0	3	41	148	370	567	747	701	494	188	46	4	0	3	44	192	562	1129	1876	2577	3071	3259	3305	3309
50	0	0	15	76	225	418	592	546	351	95	10	0	0	0	15	91	316	734	1326	1872	2223	2318	2328	2328
55	0	0	2	28	101	273	439	392	214	39	1	0	0	0	2	30	131	404	843	1235	1449	1488	1489	1489
60	0	0	0	4	32	139	286	240	111	8	0	0	0	0	0	4	36	175	461	701	812	820	820	820
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	8	27	90	202	326	458	595	553	402	237	80	25	8	35	125	327	653	1111	1706	2259	2661	2898	2978	3003

(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