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: LEWISBURG 3 N, WV **COOP ID: 465224**

Climate Division: WV 5 **NWS Call Sign:** **Elevation: 2,303 Feet** **Lat: 37˚51N** **Lon: 80˚24W**

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	38.3	19.2	28.8	75	1950	26	39.2	1974	-20	1985	21	15.7	1977	1124	0	.0	.0	6.4	7.2	26.6	1.6
Feb	43.0	21.2	32.1	76	1961	24	38.3	1976	-10+	1996	5	22.5	1978	922	0	.0	.0	10.2	4.4	23.1	.7
Mar	52.3	28.0	40.2	83	1973	14	46.7	1973	-6	1993	15	33.5	1996	770	0	.0	.0	20.1	1.2	18.9	@
Apr	62.3	36.4	49.4	91	1984	27	54.6	1986	13	1950	15	43.5	1987	470	0	.0	.1	26.9	.1	9.3	.0
May	71.2	46.6	58.9	90+	1962	18	63.8	1991	25+	1960	2	52.8	1997	215	25	.0	.1	30.7	.0	2.0	.0
Jun	77.8	55.0	66.4	95	1971	6	71.3	1984	32	1993	2	61.7	1972	54	96	.0	1.0	30.0	.0	@	.0
Jul	81.3	59.5	70.4	98	1988	17	73.5	1986	35+	1961	10	67.2	1996	8	175	.0	3.3	31.0	.0	.0	.0
Aug	80.2	57.8	69.0	97	1983	21	73.2	1988	35+	1962	11	65.4	1976	16	139	.0	1.8	31.0	.0	.0	.0
Sep	74.0	51.2	62.6	97	1953	2	67.0	1978	24	1956	21	59.1	1974	113	39	.0	.5	30.0	.0	.5	.0
Oct	64.3	38.4	51.4	94	1953	1	62.4	1984	11	1962	28	43.9	1988	433	11	.0	.0	29.3	.0	8.7	.0
Nov	52.3	29.9	41.1	80	1974	3	51.4	1985	3	1958	30	33.5	1976	718	0	.0	.0	19.2	.9	17.0	.0
Dec	42.2	23.0	32.6	75	1982	4	42.7	1984	-22	1989	23	18.2	1989	1004	0	.0	.0	9.9	5.0	24.1	.7
Ann	61.6	38.9	50.2	98	Jul 1988	17	73.5	Jul 1986	-22	Dec 1989	23	15.7	Jan 1977	5847	485	.0	6.8	274.7	18.8	130.2	3.0

\+ 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	3.19	3.33	2.17	1979	21	6.88	1996	.36	1983
Feb	2.92	2.69	2.00	1971	13	5.68	1971	.95	1980
Mar	3.62	3.36	2.00	1963	11	7.56	1991	1.05	1988
Apr	3.28	3.06	2.42	1978	26	7.57	1984	.20	1986
May	4.23	4.18	3.10	1959	23	7.93	1996	1.57	1993
Jun	3.75	3.42	2.91	1972	17	8.66	1972	.84	1991
Jul	4.16	3.70	4.06	1954	19	8.65	1978	1.81	1989
Aug	3.59	3.73	4.00	1975	31	8.35	1980	.97	1981
Sep	2.94	3.17	4.03	1964	29	6.21	1993	.03	1985
Oct	2.77	2.32	3.32	1954	15	6.67	1976	.04	2000
Nov	3.05	2.99	3.00	1985	4	7.78	1985	1.42	1976
Dec	3.10	2.64	2.76	1948	15	6.16+	1991	.76	1980
Ann	40.60	39.39	4.06	Jul 1954	19	8.66	Jun 1972	.03	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	7.3	1.9	.4
Feb	11.6	6.9	1.6	.6
Mar	12.2	8.1	2.7	.5
Apr	11.6	7.1	2.2	.7
May	12.2	8.4	2.8	.9
Jun	11.2	7.6	2.4	.7
Jul	11.5	7.8	3.0	.9
Aug	9.7	6.5	2.3	.9
Sep	8.6	5.7	2.0	.7
Oct	8.7	5.4	1.8	.7
Nov	10.6	6.5	2.1	.7
Dec	11.3	7.3	2.1	.5
Ann	131.4	84.6	26.9	8.2

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	.92	1.23	1.68	2.08	2.47	2.87	3.31	3.84	4.52	5.58	6.57
Feb	1.27	1.53	1.90	2.19	2.47	2.75	3.06	3.40	3.84	4.50	5.11
Mar	1.35	1.69	2.17	2.58	2.96	3.36	3.78	4.28	4.91	5.88	6.78
Apr	.89	1.20	1.67	2.09	2.49	2.92	3.39	3.95	4.68	5.83	6.90
May	1.90	2.27	2.79	3.22	3.61	4.01	4.44	4.92	5.54	6.47	7.31
Jun	1.09	1.45	1.98	2.45	2.90	3.37	3.89	4.51	5.30	6.55	7.71
Jul	1.75	2.12	2.66	3.09	3.50	3.92	4.36	4.88	5.53	6.52	7.42
Aug	1.09	1.43	1.94	2.38	2.80	3.24	3.73	4.30	5.03	6.18	7.24
Sep	.43	.68	1.10	1.51	1.93	2.40	2.93	3.59	4.48	5.92	7.31
Oct	.44	.68	1.08	1.46	1.86	2.29	2.78	3.39	4.19	5.50	6.76
Nov	1.24	1.52	1.92	2.24	2.55	2.86	3.19	3.58	4.07	4.82	5.50
Dec	1.17	1.46	1.88	2.22	2.55	2.88	3.24	3.66	4.20	5.02	5.77
Ann	31.20	33.07	35.44	37.22	38.79	40.29	41.84	43.53	45.57	48.50	51.01

\+ 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	5.8	5.4	2	1
Feb	7.0	5.9	1	1
Mar	4.0	4.3	#	#
Apr	.6	.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
Oct	.2	.0	#	0
Nov	1.5	.0	#	#
Dec	4.6	1.8	1	#
Ann	23.7	17.4	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	17.0	1998	28	17.0	1998	33	1996	13	9	1996
Feb	19.5	1983	11	20.0	1996	19	1983	13	9	1983
Mar	20.0	1993	14	20.0	1993	24	1993	16	4	1993
Apr	5.0	1989	9	5.2	1987	7	1987	5	1	1987
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	#	1983	24	#	1983	0	0	0	0	0
Oct	4.0	1973	29	4.0	1973	3	1993	31	#+	2000
Nov	6.5	1971	24	9.0	1976	7	1971	24	2	1989
Dec	11.0	1997	30	17.0	1997	14	1997	31	5	1989
Ann	20.0	Mar 1993	14	20.0+	Feb 1996	33	Jan 1996	13	9+	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.4	2.8	1.0	.5	.1
Feb	3.0	2.5	.8	.3	@
Mar	1.5	1.4	.5	.3	@
Apr	.3	.2	.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	.1	.1	@	.0	.0
Nov	.6	.5	.1	.1	.0
Dec	2.2	1.8	.6	.2	.1
Ann	11.1	9.3	3.1	1.4	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.4	3.7	2.5	1.0
Feb	5.9	3.3	1.6	.1
Mar	2.4	1.1	.7	.3
Apr	.2	@	.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
Nov	.7	.3	.1	.0
Dec	4.4	2.5	1.4	.2
Ann	20.1	10.9	6.3	1.6

+ 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	6/06	6/01	5/27	5/24	5/20	5/17	5/13	5/09	5/03
32	5/23	5/18	5/14	5/12	5/09	5/06	5/03	4/30	4/25
28	5/08	5/03	4/29	4/26	4/23	4/20	4/17	4/13	4/08
24	4/18	4/14	4/11	4/09	4/06	4/04	4/02	3/30	3/26
20	4/13	4/08	4/04	4/01	3/29	3/26	3/23	3/19	3/14
16	3/30	3/23	3/18	3/14	3/10	3/06	3/02	2/25	2/18

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	9/14	9/18	9/21	9/24	9/26	9/29	10/01	10/04	10/08
32	9/24	9/27	9/30	10/02	10/03	10/05	10/07	10/10	10/13
28	9/27	10/03	10/07	10/11	10/15	10/18	10/22	10/27	11/02
24	10/08	10/14	10/19	10/23	10/27	10/31	11/04	11/09	11/16
20	10/23	10/29	11/02	11/06	11/09	11/13	11/16	11/21	11/27
16	10/30	11/06	11/11	11/16	11/20	11/25	11/29	12/05	12/12

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	140	136	132	128	125	121	116	110
32	164	158	154	150	147	144	140	136	130
28	201	192	185	179	174	169	163	157	148
24	224	217	212	207	203	199	194	189	182
20	247	239	234	229	224	220	215	209	201
16	280	271	265	260	255	250	244	238	230

***** 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	1124	922	770	470	215	54	8	16	113	433	718	1004	5847
60	969	782	615	325	112	13	0	1	42	299	569	849	4576
57	876	698	524	245	67	4	0	0	20	230	481	756	3901
55	814	642	465	197	44	2	0	0	12	190	425	697	3488
50	663	502	325	99	12	0	0	0	2	108	293	553	2557
32	213	104	31	0	0	0	0	0	0	3	26	155	532

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	112	107	284	520	833	1032	1190	1146	917	604	298	174	7217
55	0	0	5	27	164	344	477	433	238	78	7	3	1776
57	0	0	2	15	125	287	415	371	187	56	3	0	1461
60	0	0	0	5	77	205	322	279	119	32	1	0	1040
65	0	0	0	0	25	96	175	139	39	11	0	0	485
70	0	0	0	0	5	29	65	46	6	2	0	0	153

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	32	60	172	363	627	834	984	950	724	407	168	61	32	92	264	627	1254	2088	3072	4022	4746	5153	5321	5382
45	8	23	93	236	475	684	829	795	574	270	88	28	8	31	124	360	835	1519	2348	3143	3717	3987	4075	4103
50	0	7	42	138	331	534	674	640	427	157	40	9	0	7	49	187	518	1052	1726	2366	2793	2950	2990	2999
55	0	0	13	69	199	384	519	485	287	77	9	0	0	0	13	82	281	665	1184	1669	1956	2033	2042	2042
60	0	0	2	23	96	244	365	330	165	32	0	0	0	0	2	25	121	365	730	1060	1225	1257	1257	1257
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	24	48	126	243	397	543	662	633	464	272	115	35	24	72	198	441	838	1381	2043	2676	3140	3412	3527	3562

(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