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: ROWLESBURG 1, WV **COOP ID: 467785**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,423 Feet** **Lat: 39˚20N** **Lon: 79˚41W**

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	37.9	19.2	28.6	80	1950	26	38.9	1974	-21	1994	20	14.6	1977	1130	0	.0	.0	5.5	10.3	27.0	2.6
Feb	41.6	20.8	31.2	79	2000	27	38.5	1990	-19	1996	6	18.9	1978	947	0	.0	.0	7.2	7.3	23.8	1.6
Mar	51.6	27.9	39.8	85	1954	25	47.7	1973	-5	1978	2	33.5	1996	783	0	.0	.0	16.7	2.4	21.8	.2
Apr	62.4	36.1	49.3	93	1957	27	53.2	1985	12+	1972	10	44.4	1975	472	0	.0	.1	24.9	.1	10.3	.0
May	72.0	46.1	59.1	91+	1949	7	66.7	1991	23	1966	10	53.8	1997	222	36	.0	.1	30.6	.0	1.6	.0
Jun	79.3	55.0	67.2	98	1953	21	70.4	1994	32	1977	8	61.2	1972	46	110	.0	.6	30.0	.0	@	.0
Jul	82.3	60.1	71.2	101	1988	17	74.8	1987	40+	1988	1	67.4	1976	7	199	@	2.0	31.0	.0	.0	.0
Aug	81.6	59.2	70.4	98+	1948	28	75.1	1995	38	1971	25	66.6	1976	14	181	.0	2.0	31.0	.0	.0	.0
Sep	75.8	52.6	64.2	101	1953	3	67.6	1978	30+	1957	28	60.8	1976	76	52	.0	.3	30.0	.0	.1	.0
Oct	65.3	40.1	52.7	93	1949	11	59.5	1984	11	1952	21	46.7	1976	390	8	.0	.0	28.0	.0	5.9	.0
Nov	53.5	31.5	42.5	83	1948	6	50.7	1985	0+	1951	21	34.2	1976	675	0	.0	.0	17.4	1.1	16.9	.0
Dec	42.5	23.9	33.2	80	1951	7	41.4	1984	-13+	1983	25	20.1	1989	987	0	.0	.0	7.9	6.2	25.2	.8
Ann	62.2	39.4	50.8	101+	Jul 1988	17	75.1	Aug 1995	-21	Jan 1994	20	14.6	Jan 1977	5749	586	@	5.1	260.2	27.4	132.6	5.2

\+ 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: 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	4.36	4.46	1.95	1974	11	7.87	1979	1.73	1981
Feb	4.01	3.81	2.70	2000	19	8.21	1986	1.35	1978
Mar	4.62	4.43	3.05	1963	5	8.77	1997	1.88	1990
Apr	4.70	4.54	1.91	1980	9	9.13	1973	1.62	1971
May	5.23	5.31	3.23	1968	24	11.38	1996	1.72	1991
Jun	5.49	5.49	2.72	2000	6	10.74	1998	1.55	1988
Jul	5.90	5.13	3.53	1984	11	11.14	1992	2.39	1987
Aug	4.64	4.01	4.71	1961	12	9.52	1980	1.80	1993
Sep	4.15	3.52	2.85	1971	13	8.69	1993	.34	1985
Oct	3.78	4.03	4.01	1954	16	8.25	1976	1.03	1992
Nov	4.41	4.25	4.57	1985	5	13.36	1985	1.32	1998
Dec	4.40	4.12	2.97	1948	16	9.59	1990	1.92	1980
Ann	55.69	55.86	4.71	Aug 1961	12	13.36	Nov 1985	.34	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	16.3	10.6	2.8	.7
Feb	13.4	9.6	2.7	.5
Mar	13.8	10.6	2.9	.8
Apr	14.0	10.8	3.2	.7
May	13.8	10.1	3.8	1.1
Jun	12.8	9.6	3.7	1.6
Jul	12.2	9.4	4.1	1.7
Aug	11.5	8.4	3.5	1.0
Sep	11.3	8.0	3.2	1.0
Oct	11.0	8.1	2.4	.9
Nov	13.4	9.4	2.9	1.0
Dec	16.1	10.0	3.0	.7
Ann	159.6	114.6	38.2	11.7

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	1.81	2.20	2.76	3.23	3.66	4.10	4.57	5.11	5.80	6.86	7.81
Feb	1.64	2.01	2.52	2.95	3.35	3.76	4.20	4.71	5.35	6.33	7.22
Mar	2.21	2.61	3.16	3.60	4.00	4.41	4.84	5.34	5.96	6.89	7.74
Apr	2.20	2.61	3.17	3.63	4.05	4.48	4.93	5.44	6.09	7.07	7.96
May	2.02	2.51	3.20	3.78	4.32	4.87	5.47	6.17	7.05	8.41	9.64
Jun	1.91	2.43	3.18	3.82	4.42	5.05	5.73	6.52	7.54	9.11	10.55
Jul	2.55	3.08	3.82	4.43	5.00	5.57	6.18	6.89	7.78	9.13	10.35
Aug	1.92	2.34	2.94	3.43	3.89	4.36	4.87	5.45	6.18	7.31	8.33
Sep	1.33	1.72	2.30	2.80	3.28	3.78	4.33	4.96	5.79	7.07	8.25
Oct	1.09	1.45	1.99	2.46	2.92	3.39	3.92	4.54	5.34	6.60	7.76
Nov	1.54	1.96	2.56	3.07	3.56	4.06	4.61	5.24	6.06	7.32	8.48
Dec	1.79	2.19	2.76	3.23	3.68	4.13	4.61	5.17	5.88	6.97	7.95
Ann	44.17	46.50	49.42	51.60	53.52	55.35	57.23	59.28	61.75	65.27	68.28

\+ 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	14.7	14.8	4	3
Feb	12.6	10.4	3	1
Mar	8.8	7.4	1	#
Apr	1.3	.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	3.2	1.8	#	#
Dec	8.0	6.6	1	1
Ann	48.6	41.0	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	17.5	1996	8	39.9	1994	25	1978	22	12	1978
Feb	12.0	1983	12	38.9	1979	25	1979	1	16	1978
Mar	15.0	1993	14	46.0	1999	20	1978	4	8	1978
Apr	4.0	1973	11	8.0	1987	6	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	.0	0	0	.0	0	0	0	0	0	0
Oct	.5	1993	31	.5	1993	1	1993	31	#+	1993
Nov	9.0	1995	15	18.5	1995	14	1995	17	3	1995
Dec	7.5	2000	31	20.3	1992	11	1981	11	4	1989
Ann	17.5	Jan 1996	8	46.0	Mar 1999	25+	Feb 1979	1	16	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.5	5.8	2.1	.9	.1
Feb	6.0	4.5	1.5	.5	.1
Mar	3.6	2.7	.9	.4	.1
Apr	.9	.6	.1	.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	.0	.0	.0	.0
Nov	2.0	1.3	.3	.1	.0
Dec	5.8	3.9	.9	.2	.0
Ann	26.9	18.8	5.8	2.1	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.7	8.9	5.5	2.5
Feb	12.0	8.0	4.6	1.8
Mar	5.1	2.5	1.2	.2
Apr	.8	.3	.1	.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	2.6	.8	.1	.0
Dec	8.1	4.0	1.7	.2
Ann	41.3	24.5	13.2	4.7

+ 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	5/17	5/13	5/10	5/07	5/03	4/27
32	5/20	5/14	5/10	5/06	5/03	4/29	4/26	4/21	4/15
28	5/03	4/27	4/24	4/21	4/18	4/15	4/11	4/08	4/03
24	4/15	4/11	4/07	4/05	4/02	3/31	3/28	3/25	3/20
20	4/11	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
16	3/31	3/25	3/20	3/16	3/13	3/09	3/05	3/01	2/22

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	9/26	9/30	10/02	10/04	10/06	10/07	10/09	10/12	10/15
32	10/05	10/09	10/12	10/14	10/17	10/19	10/21	10/24	10/29
28	10/16	10/20	10/24	10/27	10/29	11/01	11/04	11/07	11/12
24	10/23	10/29	11/02	11/06	11/09	11/13	11/17	11/21	11/27
20	11/04	11/10	11/15	11/19	11/22	11/26	11/30	12/05	12/11
16	11/14	11/20	11/25	11/29	12/03	12/06	12/10	12/15	12/22

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	164	157	152	148	145	141	137	132	125
32	189	181	175	171	166	162	157	151	143
28	217	209	203	198	194	189	185	179	171
24	245	236	230	225	220	216	211	205	196
20	269	259	252	246	240	234	228	221	211
16	289	280	274	269	264	259	254	248	239

***** 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	1130	947	783	472	222	46	7	14	76	390	675	987	5749
60	975	807	628	325	122	11	0	0	22	256	526	832	4504
57	882	723	538	243	77	4	0	0	8	189	440	739	3843
55	820	667	480	193	54	2	0	0	4	151	386	680	3437
50	677	533	341	92	17	0	0	0	0	77	258	537	2532
32	240	147	43	0	0	0	0	0	0	0	20	145	595

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	133	124	283	518	837	1054	1215	1190	965	641	335	182	7477
55	0	0	7	21	178	366	502	477	279	79	11	3	1923
57	0	0	3	12	140	308	440	415	224	55	6	0	1603
60	0	0	0	3	92	225	347	322	147	29	2	0	1167
65	0	0	0	0	36	110	199	181	52	8	0	0	586
70	0	0	0	0	11	36	83	78	9	0	0	0	217

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	41	131	307	589	813	965	940	721	393	158	50	32	73	204	511	1100	1913	2878	3818	4539	4932	5090	5140
45	10	16	71	195	437	663	810	785	571	255	86	25	10	26	97	292	729	1392	2202	2987	3558	3813	3899	3924
50	0	1	33	108	293	514	655	630	423	144	41	7	0	1	34	142	435	949	1604	2234	2657	2801	2842	2849
55	0	0	9	50	174	369	500	475	283	67	12	0	0	0	9	59	233	602	1102	1577	1860	1927	1939	1939
60	0	0	1	16	87	229	346	323	159	21	1	0	0	0	1	17	104	333	679	1002	1161	1182	1183	1183
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	22	36	103	207	367	524	646	625	450	241	104	36	22	58	161	368	735	1259	1905	2530	2980	3221	3325	3361

(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