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: ROMNEY 1 SW, WV **COOP ID: 467730**

Climate Division: WV 6 **NWS Call Sign:** **Elevation: 670 Feet** **Lat: 39˚20N** **Lon: 78˚46W**

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	38.4	19.8	29.1	78	1950	26	37.9	1990	-17+	1968	2	17.2	1977	1112	0	.0	.0	5.5	8.3	27.6	1.6
Feb	43.2	21.8	32.5	81	1985	25	39.4	2000	-12	1967	8	20.2	1979	910	0	.0	.0	8.4	4.7	23.8	.6
Mar	53.2	29.4	41.3	90	1998	31	48.3	1973	-4	1960	8	35.5	1984	735	0	.0	@	18.6	1.1	20.6	@
Apr	65.2	37.8	51.5	94+	1976	19	55.8	1981	15	1969	1	46.8	1975	406	1	.0	.3	26.6	.0	8.9	.0
May	75.1	47.7	61.4	98	1996	20	68.4	1991	23	1968	7	56.9	1997	166	55	.0	1.6	30.9	.0	.9	.0
Jun	83.3	56.7	70.0	100	2000	11	73.3	1994	32+	1966	1	65.7	1972	16	166	@	6.3	30.0	.0	@	.0
Jul	86.8	61.4	74.1	103+	1954	14	77.8	1999	41+	1963	10	71.0	2000	0	282	.2	10.2	31.0	.0	.0	.0
Aug	84.8	59.8	72.3	103+	1988	18	76.4	1988	37+	1964	15	69.0	1976	6	232	.2	7.1	31.0	.0	.0	.0
Sep	77.9	52.7	65.3	99	1957	2	69.2	1980	26+	1963	24	61.3	1975	63	72	.0	2.3	30.0	.0	.1	.0
Oct	66.8	39.8	53.3	93+	1949	7	60.1	1984	13	1969	24	47.9	1987	369	8	.0	.1	29.9	.0	7.8	.0
Nov	54.4	31.6	43.0	85+	1950	1	48.6	1985	5+	2000	23	37.6	1996	659	0	.0	.0	19.8	.1	17.1	.0
Dec	43.0	24.1	33.6	80	2001	6	40.9	1984	-13	1960	23	22.6	1989	974	0	.0	.0	8.8	4.5	25.1	.3
Ann	64.3	40.2	52.3	103+	Aug 1988	18	77.8	Jul 1999	-17+	Jan 1968	2	17.2	Jan 1977	5416	816	.4	27.9	270.5	18.7	131.9	2.5

\+ 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

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	2.50	2.38	1.85	1996	8	6.33	1996	.78+	2000
Feb	2.11	1.82	2.20	1994	9	5.38	1998	.28	1977
Mar	2.98	2.63	2.49	1984	29	6.70	1994	1.05	1995
Apr	2.91	2.51	1.62	1988	7	6.82	1993	.99	1971
May	3.65	3.49	3.58	1960	8	7.66	1988	1.25	1977
Jun	3.22	2.67	3.40	1972	22	9.37	1972	.76	1990
Jul	3.87	3.89	2.47	1982	4	9.17	1996	.93	1983
Aug	3.49	3.32	2.80	1955	13	8.20	2000	1.12	1981
Sep	3.15	2.68	2.71	1987	13	9.46	1996	.26	1985
Oct	2.65	2.45	3.10	1976	9	9.38	1976	.27	1992
Nov	2.85	2.86	2.35	1993	28	8.14	1985	.38	1998
Dec	2.32	1.92	2.07	1992	11	5.23	1972	.53	1980
Ann	35.70	33.96	3.58	May 1960	8	9.46	Sep 1996	.26	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.3	6.4	1.6	.2
Feb	7.8	4.9	1.4	.3
Mar	9.7	6.7	1.9	.5
Apr	11.4	6.8	2.0	.3
May	12.3	8.1	2.7	.5
Jun	11.2	7.1	2.2	.5
Jul	11.0	7.7	2.8	.9
Aug	10.6	7.2	2.4	.7
Sep	9.8	6.0	1.8	.7
Oct	8.6	5.1	1.8	.6
Nov	9.5	5.9	1.8	.7
Dec	8.5	5.5	1.5	.3
Ann	119.7	77.4	23.9	6.2

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	.73	.96	1.32	1.63	1.93	2.25	2.59	3.00	3.53	4.36	5.13
Feb	.43	.62	.93	1.22	1.50	1.81	2.15	2.56	3.11	3.99	4.82
Mar	.85	1.14	1.56	1.94	2.30	2.68	3.10	3.59	4.23	5.23	6.17
Apr	.82	1.10	1.51	1.88	2.24	2.61	3.02	3.51	4.14	5.13	6.05
May	1.31	1.65	2.15	2.57	2.96	3.37	3.81	4.33	4.99	6.00	6.94
Jun	.90	1.21	1.67	2.07	2.47	2.88	3.34	3.88	4.58	5.68	6.70
Jul	1.19	1.56	2.11	2.58	3.03	3.50	4.02	4.63	5.42	6.64	7.78
Aug	1.25	1.58	2.05	2.45	2.83	3.22	3.64	4.13	4.76	5.73	6.62
Sep	.63	.92	1.38	1.80	2.23	2.69	3.21	3.83	4.66	5.98	7.23
Oct	.40	.62	1.01	1.37	1.75	2.17	2.65	3.23	4.02	5.29	6.52
Nov	.73	1.00	1.41	1.78	2.14	2.52	2.95	3.45	4.10	5.14	6.11
Dec	.60	.82	1.15	1.45	1.74	2.05	2.40	2.80	3.34	4.18	4.96
Ann	26.06	27.94	30.34	32.16	33.77	35.33	36.93	38.69	40.83	43.91	46.58

\+ 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	9.0	6.5	2	1
Feb	6.9	3.5	1	1
Mar	6.3	2.8	1	#
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
Nov	1.5	.0	#	#
Dec	3.3	2.0	1	#
Ann	27.4	14.8	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	26.0	1971	1	36.0	1996	34	1996	13	10	1996
Feb	21.0	1983	12	35.0	1983	21	1983	12	6	1979
Mar	21.5	1993	14	30.0	1993	24	1993	14	4	1993
Apr	2.5	1973	12	2.5	1973	1+	1996	9	#+	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	#	1992	19	#	1992	#	1992	19	#	1992
Nov	5.0	1976	12	9.0	1995	9	1971	25	1	1995
Dec	20.5	1992	11	20.5	1992	23	1992	11	4	1992
Ann	26.0	Jan 1971	1	36.0	Jan 1996	34	Jan 1996	13	10	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.6	3.0	1.2	.6	.1
Feb	2.5	2.1	1.0	.3	.1
Mar	2.0	1.5	.7	.4	.1
Apr	.3	.2	.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	.0	.0
Nov	.7	.5	.2	.1	.0
Dec	1.7	1.2	.2	.1	.1
Ann	10.8	8.5	3.3	1.5	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	10.6	5.4	3.2	1.8
Feb	7.2	4.3	2.4	.2
Mar	3.2	1.4	.7	.1
Apr	.3	.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	1.2	.3	.1	.0
Dec	4.0	1.4	.6	.2
Ann	26.5	12.8	7.0	2.3

+ 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	5/30	5/24	5/20	5/17	5/14	5/11	5/08	5/04	4/29
32	5/19	5/14	5/10	5/07	5/04	4/30	4/27	4/23	4/18
28	4/30	4/26	4/22	4/19	4/17	4/14	4/11	4/08	4/03
24	4/18	4/14	4/10	4/07	4/05	4/02	3/30	3/27	3/22
20	4/05	4/01	3/28	3/25	3/23	3/20	3/17	3/14	3/09
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	9/19	9/23	9/26	9/29	10/02	10/04	10/07	10/10	10/14
32	9/29	10/04	10/07	10/10	10/12	10/15	10/18	10/21	10/25
28	10/12	10/16	10/19	10/22	10/25	10/27	10/30	11/02	11/07
24	10/15	10/20	10/24	10/28	10/31	11/03	11/07	11/11	11/17
20	10/31	11/06	11/10	11/14	11/17	11/20	11/24	11/28	12/04
16	11/14	11/21	11/26	12/01	12/04	12/08	12/13	12/18	12/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	158	152	147	143	140	136	132	128	122
32	181	174	169	165	161	157	153	148	141
28	209	203	198	194	190	187	183	178	172
24	226	220	216	212	209	205	202	197	191
20	260	253	247	243	239	234	230	225	217
16	295	285	278	272	266	260	254	247	237

***** 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	1112	910	735	406	166	16	0	6	63	369	659	974	5416
60	957	770	580	263	81	3	0	0	17	238	510	819	4238
57	864	686	491	187	47	1	0	0	6	172	423	726	3603
55	802	630	433	142	30	0	0	0	3	134	367	664	3205
50	655	497	296	59	8	0	0	0	0	64	238	519	2336
32	210	122	28	0	0	0	0	0	0	0	12	121	493

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	122	135	316	585	912	1140	1304	1250	999	661	343	170	7937
55	0	0	8	37	229	450	591	537	312	83	8	0	2255
57	0	0	4	22	184	391	529	475	255	58	4	0	1922
60	0	0	0	8	126	302	436	382	176	31	1	0	1462
65	0	0	0	1	55	166	282	232	72	8	0	0	816
70	0	0	0	0	17	64	144	109	17	0	0	0	351

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	26	45	155	369	669	903	1066	1011	772	430	169	48	26	71	226	595	1264	2167	3233	4244	5016	5446	5615	5663
45	5	19	83	238	514	753	911	856	622	286	93	22	5	24	107	345	859	1612	2523	3379	4001	4287	4380	4402
50	0	5	39	143	365	603	756	701	472	168	43	7	0	5	44	187	552	1155	1911	2612	3084	3252	3295	3302
55	0	0	17	73	235	454	601	546	329	82	13	1	0	0	17	90	325	779	1380	1926	2255	2337	2350	2351
60	0	0	5	33	128	310	446	393	202	31	3	0	0	0	5	38	166	476	922	1315	1517	1548	1551	1551
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	24	44	122	249	427	591	711	672	498	286	121	37	24	68	190	439	866	1457	2168	2840	3338	3624	3745	3782

(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