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: RIPLEY, WV **COOP ID: 467552**

Climate Division: WV 3 **NWS Call Sign:** **Elevation: 590 Feet** **Lat: 38˚49N** **Lon: 81˚43W**

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	40.7	19.9	30.3	80	1950	25	39.7	1974	-28+	1994	19	16.2	1977	1076	0	.0	.0	8.2	7.1	25.4	1.7
Feb	45.5	21.8	33.7	78+	1957	26	40.9	1976	-16	1996	4	20.7	1978	879	0	.0	.0	11.2	3.9	21.7	1.2
Mar	55.7	29.5	42.6	89+	1952	21	51.4	1973	-11	1980	3	36.9	1996	694	0	.0	.0	22.1	.7	17.4	.1
Apr	66.3	38.1	52.2	95	1985	22	56.9	1999	11	1982	7	48.2	1982	386	2	.0	.5	27.9	.0	7.9	.0
May	75.8	49.0	62.4	97	1962	19	69.6	1991	23	1966	10	57.2	1997	149	68	.0	1.6	31.0	.0	1.2	.0
Jun	82.9	57.8	70.4	102	1988	25	73.9	1971	35+	1966	2	66.1	1977	20	180	.1	5.5	30.0	.0	.0	.0
Jul	86.6	62.6	74.6	107	1988	16	79.0	1999	39	1988	1	71.4	2000	0	298	.4	10.3	31.0	.0	.0	.0
Aug	84.8	60.5	72.7	103+	1983	20	77.8	1995	35	1965	29	66.5	1982	14	250	.3	7.3	31.0	.0	.0	.0
Sep	78.9	53.2	66.1	102	1953	3	70.6	1998	29+	1981	24	61.0	1982	70	102	.1	2.6	30.0	.0	.2	.0
Oct	68.0	40.3	54.2	92+	1949	10	61.5	1971	14	1962	27	46.8	1976	354	17	.0	.0	30.2	.0	6.0	.0
Nov	56.1	31.8	44.0	86+	1948	5	51.5	1985	0	1958	30	34.6	1976	631	0	.0	.0	21.1	.2	15.1	.0
Dec	45.7	25.1	35.4	82	1982	2	44.0	1971	-17+	1989	22	22.1	1989	917	0	.0	.0	12.5	3.9	22.3	.7
Ann	65.6	40.8	53.2	107	Jul 1988	16	79.0	Jul 1999	-28+	Jan 1994	19	16.2	Jan 1977	5190	917	.9	27.8	286.2	15.8	117.2	3.7

\+ 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

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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	3.40	3.47	1.88	1951	15	6.53	1978	.84	1981
Feb	3.26	3.01	2.54	2000	19	6.07	1989	.75	1977
Mar	3.96	3.42	4.00	1997	2	9.41	1997	1.52	1979
Apr	3.44	3.54	2.05	1962	12	6.92	1973	.56	1985
May	4.47	4.14	5.55	1985	16	9.69	1985	1.05	1991
Jun	4.27	3.29	6.80	1998	28	15.51	1998	.33	1984
Jul	4.90	4.50	3.16	2001	18	9.21	1980	2.04	1974
Aug	3.90	3.92	4.40	1963	4	7.38	1989	1.55	1993
Sep	3.36	3.31	3.00	1971	13	8.31	1971	.62	1998
Oct	3.12	2.50	4.00	1985	21	7.61	1973	.52+	1994
Nov	3.53	3.49	2.30	1972	1	7.15	1985	1.12	1976
Dec	3.50	2.81	2.79	1948	15	9.66	1978	.95	1989
Ann	45.11	45.26	6.80	Jun 1998	28	15.51	Jun 1998	.33	Jun 1984

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.1	8.6	2.0	.5
Feb	12.0	7.4	1.9	.5
Mar	12.8	8.5	3.0	.6
Apr	13.0	8.0	2.3	.5
May	12.9	9.1	3.0	.9
Jun	11.6	8.1	3.1	.9
Jul	10.7	8.0	3.8	1.4
Aug	10.2	6.9	2.9	1.0
Sep	9.3	6.8	2.4	.7
Oct	10.6	6.7	1.9	.7
Nov	11.5	7.4	2.5	.7
Dec	13.4	7.8	2.2	.7
Ann	142.1	93.3	31.0	9.1

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	1.01	1.33	1.82	2.23	2.64	3.06	3.53	4.08	4.79	5.91	6.94
Feb	1.26	1.57	2.00	2.36	2.69	3.04	3.41	3.85	4.40	5.24	6.01
Mar	1.53	1.89	2.42	2.85	3.27	3.69	4.14	4.67	5.34	6.37	7.31
Apr	1.05	1.38	1.87	2.29	2.69	3.11	3.57	4.12	4.82	5.92	6.93
May	1.61	2.03	2.64	3.15	3.64	4.13	4.67	5.30	6.11	7.35	8.49
Jun	.97	1.36	1.99	2.55	3.11	3.71	4.38	5.18	6.24	7.91	9.49
Jul	2.28	2.71	3.30	3.78	4.22	4.66	5.14	5.68	6.36	7.39	8.32
Aug	1.72	2.07	2.55	2.95	3.32	3.69	4.09	4.55	5.12	6.00	6.79
Sep	.82	1.14	1.63	2.06	2.49	2.95	3.46	4.07	4.86	6.12	7.30
Oct	.63	.92	1.37	1.79	2.21	2.67	3.18	3.79	4.61	5.91	7.15
Nov	1.34	1.67	2.14	2.53	2.90	3.28	3.69	4.16	4.77	5.70	6.55
Dec	1.13	1.46	1.95	2.37	2.77	3.19	3.64	4.18	4.86	5.93	6.92
Ann	33.32	35.63	38.58	40.80	42.77	44.67	46.62	48.76	51.36	55.11	58.34

\+ 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	7.5	4.3	2	1
Feb	7.4	6.9	1	#
Mar	2.4	1.2	#	#
Apr	.7	.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	.8	.0	#	0
Dec	2.1	1.0	#	#
Ann	21.0	13.4	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	8.5	1994	4	18.1	1985	35	1977	31	20	1977
Feb	9.0	1985	13	21.0	1979	12	1986	15	5	1985
Mar	7.0	1971	3	12.7	1971	16	1993	15	2	1993
Apr	8.5	1987	5	15.0	1987	9	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	2.2	1974	20	2.2	1974	#+	1974	20	#+	1974
Nov	4.5	1971	24	6.8	1976	3	1971	24	#+	1997
Dec	3.0	1985	25	6.2	1985	5	1999	29	2	1989
Ann	9.0	Feb 1985	13	21.0	Feb 1979	35	Jan 1977	31	20	Jan 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.7	2.8	.8	.2	.0
Feb	2.6	1.6	.6	.2	.0
Mar	1.2	.6	.2	.1	.0
Apr	.2	.2	.1	.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	.0
Nov	.5	.3	@	.0	.0
Dec	1.9	.9	.1	.0	.0
Ann	10.2	6.5	1.8	.6	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.5	2.5	.9	.0
Feb	5.6	3.0	1.7	.4
Mar	.7	.2	.1	.0
Apr	.1	.1	.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	.0
Nov	.2	@	.0	.0
Dec	2.0	.3	@	.0
Ann	15.1	6.1	2.8	.4

+ 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	5/27	5/21	5/17	5/14	5/11	5/07	5/04	4/30	4/24
32	5/16	5/11	5/08	5/05	5/02	4/29	4/26	4/22	4/18
28	5/02	4/27	4/22	4/19	4/15	4/12	4/08	4/04	3/29
24	4/19	4/15	4/11	4/08	4/05	4/03	3/31	3/27	3/23
20	4/07	4/02	3/30	3/27	3/24	3/21	3/18	3/14	3/09
16	3/30	3/22	3/16	3/12	3/07	3/03	2/26	2/21	2/13

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	165	158	153	148	144	140	135	130	122
32	184	177	172	168	163	159	155	150	143
28	218	209	202	196	191	186	180	173	164
24	242	232	224	218	212	207	200	193	183
20	267	257	250	244	239	233	227	220	210
16	295	286	280	274	269	264	259	252	244

***** 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	1076	879	694	386	149	20	0	14	70	354	631	917	5190
60	921	739	539	248	70	4	0	2	23	231	483	762	4022
57	828	655	452	176	39	1	0	0	10	170	399	675	3405
55	768	599	395	134	25	0	0	0	5	135	344	617	3022
50	625	469	262	57	6	0	0	0	1	68	221	475	2184
32	209	114	21	0	0	0	0	0	0	0	11	116	471

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	157	160	350	606	942	1150	1321	1259	1022	686	371	222	8246
55	3	0	11	50	254	461	608	546	337	108	13	10	2401
57	0	0	6	31	206	401	546	484	282	81	8	6	2051
60	0	0	0	14	144	314	453	393	206	49	2	0	1575
65	0	0	0	2	68	180	298	250	102	17	0	0	917
70	0	0	0	0	23	79	155	134	37	4	0	0	432

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	49	72	215	426	725	934	1089	1037	813	479	214	87	49	121	336	762	1487	2421	3510	4547	5360	5839	6053	6140
45	23	35	125	294	570	784	934	882	663	336	129	41	23	58	183	477	1047	1831	2765	3647	4310	4646	4775	4816
50	3	12	69	181	418	635	779	727	513	207	64	19	3	15	84	265	683	1318	2097	2824	3337	3544	3608	3627
55	0	0	34	101	282	485	624	572	370	110	27	3	0	0	34	135	417	902	1526	2098	2468	2578	2605	2608
60	0	0	8	44	158	339	469	417	238	50	4	0	0	0	8	52	210	549	1018	1435	1673	1723	1727	1727
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	37	56	160	289	472	620	740	701	532	318	142	57	37	93	253	542	1014	1634	2374	3075	3607	3925	4067	4124

(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