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: PINEVILLE, WV **COOP ID: 467029**

Climate Division: WV 5 **NWS Call Sign:** **Elevation: 1,280 Feet** **Lat: 37˚34N** **Lon: 81˚32W**

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	41.5	22.7	32.1	79	1950	26	44.3	1974	-17	1985	21	20.1	1977	1019	0	.0	.0	7.8	6.4	25.8	1.4
Feb	46.3	24.5	35.4	78	1977	27	43.0	1990	-16+	1996	5	24.5	1978	830	0	.0	.0	11.6	4.4	22.7	.6
Mar	56.2	31.5	43.9	87	1954	26	51.1	1973	-6	1980	3	37.9	1996	657	0	.0	.0	21.3	1.1	18.7	.2
Apr	66.9	39.3	53.1	92+	1976	18	57.5	1981	14	1964	1	48.2	1987	361	3	.0	.2	27.1	.1	8.8	.0
May	75.3	49.1	62.2	94	1950	6	68.3	1991	27+	1966	10	56.1	1997	152	65	.0	.2	30.8	.0	1.3	.0
Jun	82.0	58.2	70.1	99	1952	29	73.5	1981	31	1966	2	65.5	1972	15	169	.0	2.3	30.0	.0	.0	.0
Jul	85.3	62.8	74.1	101+	1954	3	77.2	1993	42+	1988	1	71.2	1996	0	281	.0	6.4	31.0	.0	.0	.0
Aug	84.2	61.5	72.9	101	1955	5	76.9	1995	43+	1965	30	70.2	1976	2	244	@	4.5	31.0	.0	.0	.0
Sep	78.1	54.7	66.4	102+	1953	2	70.0	1980	32	1963	25	63.1	1984	51	94	.0	.8	30.0	.0	.0	.0
Oct	67.4	41.5	54.5	96	1953	1	62.6	1971	15+	1962	27	47.5	1988	346	20	.0	.0	29.7	.0	5.3	.0
Nov	56.2	33.0	44.6	84+	1950	2	53.1	1985	4	1950	25	36.8	1976	612	0	.0	.0	20.5	.3	16.0	.0
Dec	45.5	26.1	35.8	80	1982	5	45.1	1971	-13+	1989	23	24.0	1989	906	0	.0	.0	11.6	4.2	23.5	.3
Ann	65.4	42.1	53.8	102+	Sep 1953	2	77.2	Jul 1993	-17	Jan 1985	21	20.1	Jan 1977	4951	876	@	14.4	282.4	16.5	122.1	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: 1941-2001

(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	3.88	3.95	2.75	1998	28	7.81	1979	1.15	1981
Feb	3.25	3.22	1.93	1955	27	7.30	1972	.91	1978
Mar	3.94	3.31	3.52	1963	12	9.64	1975	1.45	1986
Apr	3.90	3.64	2.74	1977	5	8.40	1987	.63	1976
May	4.98	5.09	3.62	1996	16	9.07	1996	2.14	1999
Jun	4.02	3.62	3.10	1953	7	8.80	1979	1.44	1988
Jul	5.07	4.91	4.75	2001	9	11.08	1980	1.61	1993
Aug	3.88	3.72	3.82	1949	16	7.74	1977	1.68	1998
Sep	3.44	3.42	2.81	1964	30	6.11	1988	.69	1985
Oct	3.07	2.90	2.34	1989	17	7.57	1976	.12	2000
Nov	3.23	3.26	2.60	1999	26	6.77	1985	1.18	1976
Dec	3.46	2.89	2.05	1993	5	7.39	1991	1.42	1980
Ann	46.12	44.78	4.75	Jul 2001	9	11.08	Jul 1980	.12	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.9	8.4	2.4	.6
Feb	13.6	7.6	2.0	.4
Mar	14.2	9.0	2.7	.5
Apr	13.9	8.3	2.4	.7
May	14.2	9.4	3.5	1.1
Jun	12.2	8.6	2.8	.8
Jul	12.9	9.1	3.7	1.4
Aug	10.7	7.3	2.8	1.0
Sep	9.8	6.5	2.6	.8
Oct	9.6	5.6	2.1	.5
Nov	12.0	7.1	2.1	.6
Dec	14.0	7.8	2.2	.5
Ann	153.0	94.7	31.3	8.9

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	1.26	1.63	2.17	2.64	3.08	3.54	4.05	4.64	5.40	6.58	7.67
Feb	1.35	1.64	2.06	2.40	2.72	3.05	3.40	3.81	4.32	5.10	5.81
Mar	1.36	1.74	2.28	2.73	3.17	3.62	4.11	4.69	5.42	6.56	7.60
Apr	1.34	1.71	2.25	2.70	3.14	3.59	4.07	4.65	5.38	6.51	7.55
May	2.33	2.76	3.36	3.84	4.29	4.74	5.23	5.78	6.47	7.51	8.45
Jun	1.64	2.01	2.53	2.96	3.36	3.77	4.22	4.73	5.37	6.36	7.26
Jul	2.42	2.86	3.46	3.94	4.39	4.84	5.32	5.86	6.54	7.57	8.50
Aug	1.94	2.27	2.71	3.07	3.39	3.72	4.07	4.46	4.95	5.69	6.35
Sep	1.21	1.54	2.01	2.40	2.78	3.17	3.59	4.08	4.71	5.68	6.57
Oct	.58	.85	1.30	1.72	2.14	2.60	3.12	3.74	4.58	5.92	7.19
Nov	1.11	1.42	1.86	2.24	2.60	2.97	3.37	3.84	4.45	5.38	6.24
Dec	1.26	1.59	2.06	2.45	2.82	3.21	3.62	4.10	4.72	5.67	6.54
Ann	36.55	38.48	40.92	42.73	44.33	45.85	47.42	49.12	51.18	54.11	56.62

\+ 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: 1941-2001
(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	8.0	5.1	1	1
Feb	5.1	4.9	1	#
Mar	3.4	.8	#	#
Apr	.8	.0	#	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	.0	.0	#	0
Nov	.8	.0	#	#
Dec	3.7	1.5	#	#
Ann	21.8	12.3	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	11.9	1996	7	26.4	1996	18	1996	12	6	1996
Feb	12.0	1985	13	14.2	1996	12	1985	14	4	1979
Mar	14.0	1993	14	21.0	1993	21	1993	14	3	1993
Apr	7.0	1987	4	21.0	1987	18	1987	5	2	1987
May	#	1989	7	#	1989	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	.7	1974	20	.7	1974	#+	1993	31	#+	1993
Nov	2.6	1971	22	4.4	1971	2	1995	15	#+	2000
Dec	8.1	1997	30	13.0	1974	9+	1997	31	2	1989
Ann	14.0	Mar 1993	14	26.4	Jan 1996	21	Mar 1993	14	6	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.2	3.4	.8	.4	@
Feb	2.5	2.0	.5	.3	@
Mar	1.4	1.2	.4	.2	@
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	@	.0	.0	.0	.0
Nov	.5	.4	.0	.0	.0
Dec	2.1	1.6	.4	.1	.0
Ann	10.9	8.8	2.2	1.1	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	8.4	4.1	2.1	.5
Feb	5.1	2.2	1.3	.2
Mar	1.8	.7	.4	.1
Apr	.3	.2	.1	.1
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	.5	.0	.0	.0
Dec	3.8	1.1	.3	.0
Ann	19.9	8.3	4.2	.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	5/21	5/16	5/12	5/09	5/06	5/04	5/01	4/27	4/22
32	5/16	5/11	5/07	5/03	4/30	4/27	4/23	4/19	4/13
28	4/29	4/23	4/19	4/15	4/12	4/08	4/05	4/01	3/26
24	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/21	3/16
20	4/02	3/25	3/20	3/16	3/11	3/07	3/02	2/25	2/18
16	3/21	3/14	3/09	3/05	3/01	2/25	2/20	2/15	2/08

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	9/29	10/03	10/06	10/09	10/11	10/14	10/17	10/20	10/24
32	10/06	10/11	10/15	10/17	10/20	10/23	10/26	10/29	11/03
28	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/14
24	10/20	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/29
20	11/05	11/11	11/16	11/20	11/24	11/27	12/01	12/06	12/12
16	11/17	11/24	11/29	12/03	12/08	12/12	12/16	12/21	12/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	170	165	161	157	154	150	145	139
32	194	186	181	177	173	168	164	159	152
28	223	215	209	204	200	195	190	184	176
24	247	238	232	227	222	218	213	207	198
20	285	275	268	262	257	251	245	238	228
16	309	299	292	287	281	276	270	263	254

***** 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	1019	830	657	361	152	15	0	2	51	346	612	906	4951
60	864	690	505	225	73	2	0	0	15	226	465	751	3816
57	771	606	419	155	41	0	0	0	6	167	381	658	3204
55	716	550	362	117	26	0	0	0	3	134	328	604	2840
50	571	419	237	46	7	0	0	0	0	69	208	460	2017
32	173	79	16	0	0	0	0	0	0	0	9	101	378

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	177	174	382	632	936	1144	1304	1265	1033	697	387	218	8349
55	7	0	15	59	248	454	591	552	346	118	16	8	2414
57	0	0	10	38	201	394	529	490	289	89	9	0	2049
60	0	0	3	17	140	306	436	397	208	55	3	0	1565
65	0	0	0	3	65	169	281	244	94	20	0	0	876
70	0	0	0	0	21	65	136	110	25	5	0	0	362

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	41	69	192	396	682	899	1059	1023	802	459	199	72	41	110	302	698	1380	2279	3338	4361	5163	5622	5821	5893
45	16	30	109	271	528	749	904	868	652	314	111	32	16	46	155	426	954	1703	2607	3475	4127	4441	4552	4584
50	1	8	51	165	379	599	749	713	503	192	55	9	1	9	60	225	604	1203	1952	2665	3168	3360	3415	3424
55	0	1	15	86	240	450	594	558	357	100	17	0	0	1	16	102	342	792	1386	1944	2301	2401	2418	2418
60	0	0	2	37	130	309	439	403	222	41	2	0	0	0	2	39	169	478	917	1320	1542	1583	1585	1585
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	31	59	149	275	435	597	723	700	515	296	138	49	31	90	239	514	949	1546	2269	2969	3484	3780	3918	3967

(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