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: BAYARD, WV **COOP ID: 460527**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 2,375 Feet** **Lat: 39˚16N** **Lon: 79˚22W**

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	35.3	14.9	25.1	72	1950	25	35.1	1974	-27	1968	2	11.3	1977	1236	0	.0	.0	3.9	11.9	28.8	3.4
Feb	38.5	16.1	27.3	79	1932	11	35.6	1990	-25	1934	28	14.8	1978	1055	0	.0	.0	5.9	8.8	25.3	2.0
Mar	48.1	23.5	35.8	84	1950	28	42.4	1973	-17	1960	11	28.5	1999	905	0	.0	.0	14.6	3.6	23.9	.5
Apr	58.8	30.9	44.9	88+	1930	13	49.1	1994	3	1985	10	40.2	1997	604	0	.0	.0	23.9	.3	14.6	.0
May	68.6	41.0	54.8	92	1949	7	62.6	1991	17+	1943	2	49.4	1994	325	8	.0	.0	30.4	.0	4.4	.0
Jun	76.1	49.2	62.7	93	1952	15	65.8	1971	27+	1930	1	58.9	1972	103	33	.0	@	30.0	.0	.2	.0
Jul	79.8	54.4	67.1	95+	1926	22	70.7	1991	32	1929	21	63.1	2000	37	102	.0	.6	31.0	.0	.0	.0
Aug	78.2	52.4	65.3	95+	1926	11	69.8	1988	28	1968	28	62.0	1976	65	74	.0	.6	31.0	.0	@	.0
Sep	71.2	46.0	58.6	95	1932	2	62.3	1971	15	1942	29	55.3	1984	201	8	.0	.1	29.8	.0	1.3	.0
Oct	61.6	34.3	48.0	92	1951	5	55.5	1984	8	1930	22	42.6	1988	529	0	.0	.0	26.8	.0	11.8	.0
Nov	49.6	26.0	37.8	78	1929	1	45.5	1985	-14	1930	29	29.7	1976	816	0	.0	.0	15.0	2.6	19.6	.1
Dec	39.9	19.2	29.6	74	1951	7	38.3	1984	-20	1989	24	18.0	1989	1098	0	.0	.0	6.5	8.4	26.6	1.4
Ann	58.8	34.0	46.4	95+	Sep 1932	2	70.7	Jul 1991	-27	Jan 1968	2	11.3	Jan 1977	6974	225	.0	1.3	248.8	35.6	156.5	7.4

\+ 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: 1926-2001

(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	3.83	3.85	1.96	1996	8	8.48	1996	1.24	1984
Feb	3.53	3.43	4.15	1994	9	8.53	1994	1.26	1978
Mar	4.19	3.76	2.50	1963	5	8.23	1994	1.17	1990
Apr	4.12	3.91	2.67	1928	28	7.35	1973	1.84	1971
May	4.97	4.73	3.17	1968	24	11.26	1996	1.59	1993
Jun	4.67	4.45	2.91	1985	1	10.95	1981	.80	1999
Jul	5.24	4.38	4.04	1954	15	11.03	1996	1.92	1987
Aug	4.45	3.94	3.53	1996	9	10.62	1980	1.79	1991
Sep	3.69	3.60	4.35	1996	7	9.23	1996	.27	1985
Oct	3.21	3.13	4.25	1954	15	8.39	1976	.74	1994
Nov	3.72	3.49	4.55	1985	5	11.20	1985	.97	1998
Dec	3.70	3.30	2.40	1972	9	7.67	1972	1.68+	1998
Ann	49.32	48.19	4.55	Nov 1985	5	11.26	May 1996	.27	Sep 1985

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.4	10.0	1.9	.4
Feb	15.8	8.6	1.9	.4
Mar	16.4	10.3	2.4	.8
Apr	15.0	9.9	2.5	.6
May	15.3	10.3	3.2	1.0
Jun	13.8	9.4	3.4	.9
Jul	13.1	9.3	3.6	1.5
Aug	12.4	7.8	3.0	1.0
Sep	11.6	7.8	2.4	.7
Oct	11.9	7.4	1.9	.5
Nov	15.0	8.5	2.2	.6
Dec	17.2	9.5	1.8	.6
Ann	176.9	108.8	30.2	9.0

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	1.43	1.78	2.30	2.73	3.14	3.55	4.01	4.53	5.20	6.23	7.17
Feb	1.37	1.69	2.16	2.55	2.92	3.29	3.70	4.17	4.77	5.68	6.52
Mar	1.64	2.03	2.58	3.04	3.47	3.91	4.39	4.94	5.64	6.71	7.69
Apr	1.86	2.23	2.73	3.14	3.52	3.91	4.32	4.79	5.38	6.27	7.08
May	2.01	2.47	3.11	3.64	4.15	4.66	5.21	5.84	6.64	7.87	8.99
Jun	1.67	2.11	2.75	3.28	3.79	4.31	4.88	5.54	6.39	7.69	8.89
Jul	1.83	2.33	3.05	3.65	4.23	4.83	5.47	6.23	7.20	8.69	10.07
Aug	1.81	2.22	2.80	3.27	3.72	4.17	4.66	5.23	5.94	7.04	8.03
Sep	1.01	1.36	1.89	2.35	2.81	3.29	3.82	4.44	5.26	6.54	7.73
Oct	.92	1.23	1.69	2.09	2.48	2.88	3.33	3.86	4.54	5.62	6.62
Nov	1.22	1.57	2.09	2.53	2.96	3.40	3.88	4.44	5.16	6.29	7.32
Dec	1.53	1.87	2.34	2.74	3.10	3.48	3.88	4.35	4.93	5.83	6.64
Ann	37.32	39.70	42.72	44.98	46.99	48.91	50.88	53.05	55.67	59.44	62.68

\+ 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: 1926-2001
(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	25.9	22.8	5	4
Feb	21.0	20.0	7	4
Mar	17.5	12.5	3	2
Apr	4.8	2.0	#	#
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.3	#	#	0
Nov	6.2	4.5	1	#
Dec	15.8	12.0	3	1
Ann	91.5	73.8	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	31.0	1996	8	57.0	1978	38	1996	8	15	1977
Feb	17.0	1983	12	43.5	1979	33	1972	20	19	1978
Mar	15.1	1999	4	53.7	1999	34	1993	14	13	1993
Apr	10.0	1971	7	19.0	1987	11	1987	6	2	1987
May	#	1996	13	#	1996	#	1996	13	#	1996
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	2.0	1979	10	3.0	1992	2	1979	10	#+	2000
Nov	16.0	1995	15	24.0	1976	22	1995	16	6	1995
Dec	17.0	1974	2	45.0	1992	22	1974	3	12	1974
Ann	31.0	Jan 1996	8	57.0	Jan 1978	38	Jan 1996	8	19	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	11.2	8.7	3.2	1.5	.2
Feb	8.1	6.2	3.0	1.4	.2
Mar	6.3	5.2	2.1	1.0	.2
Apr	1.9	1.6	.5	.2	@
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	.3	.2	.0	.0	.0
Nov	3.4	2.7	1.0	.3	.1
Dec	7.6	6.1	2.3	.8	.1
Ann	38.8	30.7	12.1	5.2	.8

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	21.3	16.4	12.1	4.5
Feb	19.5	16.2	12.9	6.6
Mar	12.0	8.6	6.1	2.5
Apr	2.2	.9	.5	.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	.2	.0	.0	.0
Nov	5.8	3.0	1.1	.3
Dec	14.1	8.8	5.6	1.7
Ann	75.1	53.9	38.3	15.7

+ 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	6/19	6/13	6/09	6/05	6/02	5/30	5/26	5/22	5/16
32	6/06	5/31	5/26	5/23	5/20	5/16	5/13	5/08	5/03
28	5/19	5/14	5/11	5/08	5/05	5/02	4/30	4/26	4/22
24	5/03	4/28	4/24	4/21	4/19	4/16	4/13	4/09	4/04
20	4/14	4/10	4/08	4/05	4/03	3/31	3/29	3/26	3/22
16	4/10	4/06	4/03	3/31	3/29	3/26	3/23	3/20	3/16

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	123	116	111	107	103	99	95	90	83
32	145	139	135	132	128	125	122	118	112
28	175	169	165	161	157	154	150	145	139
24	211	202	197	192	187	182	177	171	163
20	235	228	223	219	215	210	206	201	194
16	259	250	244	238	233	228	223	217	208

***** 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	1236	1055	905	604	325	103	37	65	201	529	816	1098	6974
60	1081	915	750	455	196	32	6	13	90	380	666	943	5527
57	988	831	657	366	134	12	0	4	47	297	576	850	4762
55	926	775	595	308	99	5	0	1	28	246	517	788	4288
50	772	635	449	179	38	0	0	0	5	140	377	641	3236
32	297	202	77	2	0	0	0	0	0	3	47	199	827

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	84	72	194	388	706	920	1089	1032	797	497	222	124	6125
55	0	0	0	4	92	236	376	320	135	27	1	0	1191
57	0	0	0	2	65	182	314	261	94	16	0	0	934
60	0	0	0	0	34	112	226	177	47	6	0	0	602
65	0	0	0	0	8	33	102	74	8	0	0	0	225
70	0	0	0	0	0	4	29	18	0	0	0	0	51

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	18	24	95	248	507	723	866	811	587	293	111	38	18	42	137	385	892	1615	2481	3292	3879	4172	4283	4321
45	3	6	49	145	355	573	711	656	439	170	52	14	3	9	58	203	558	1131	1842	2498	2937	3107	3159	3173
50	0	0	19	78	225	423	556	501	293	87	19	0	0	0	19	97	322	745	1301	1802	2095	2182	2201	2201
55	0	0	4	31	122	278	401	349	174	32	4	0	0	0	4	35	157	435	836	1185	1359	1391	1395	1395
60	0	0	0	8	47	150	250	203	80	6	0	0	0	0	0	8	55	205	455	658	738	744	744	744
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	9	21	75	177	317	458	565	520	355	193	73	26	9	30	105	282	599	1057	1622	2142	2497	2690	2763	2789

(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