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: PARKERSBURG, WV **COOP ID: 466859**

Climate Division: WV 1 **NWS Call Sign: PKB** **Elevation: 620 Feet** **Lat: 39˚17N** **Lon: 81˚33W**

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	39.0	22.3	30.7	78	1950	25	40.1	1990	-26	1994	20	16.4	1977	1064	0	.0	.0	6.6	9.5	25.4	1.2
Feb	43.4	24.1	33.8	78+	1999	12	42.0	1976	-8	1936	19	20.7	1978	875	0	.0	.0	9.4	6.5	21.5	.3
Mar	54.0	31.6	42.8	89	1929	25	51.4	1973	-3	1943	4	36.3	1984	690	0	.0	.0	19.0	1.4	17.1	.0
Apr	64.8	40.4	52.6	94	1986	28	58.6	1985	17	1985	10	48.2	1982	375	4	.0	.3	26.4	.0	5.8	.0
May	74.4	51.5	63.0	96	1988	31	71.8	1991	29+	1947	10	57.5	1997	155	92	.0	.9	30.9	.0	.2	.0
Jun	82.2	60.3	71.3	102	1988	26	75.6	1984	36	1972	11	65.7	1972	21	208	.1	4.0	30.0	.0	.0	.0
Jul	85.8	64.9	75.4	105	1988	18	80.0	1999	45+	1984	8	71.8	1976	3	325	.3	8.6	31.0	.0	.0	.0
Aug	84.6	63.0	73.8	103	1988	18	79.1	1995	42+	1965	29	69.4	1992	8	280	.2	6.7	31.0	.0	.0	.0
Sep	77.9	55.8	66.9	102	1953	3	70.9	1998	32	1942	29	62.1	1975	52	107	.0	1.9	30.0	.0	.0	.0
Oct	66.5	43.4	55.0	91	1927	1	62.4	1971	20	2000	31	47.9	1988	333	22	.0	@	29.5	.0	3.6	.0
Nov	54.5	35.0	44.8	86	1961	3	52.6	1985	4	1929	30	37.1	1976	607	0	.0	.0	18.8	.5	13.5	.0
Dec	43.9	27.5	35.7	78	1982	4	43.9	1984	-10+	1983	25	23.3	1989	908	0	.0	.0	10.1	5.3	22.0	.4
Ann	64.3	43.3	53.8	105	Jul 1988	18	80.0	Jul 1999	-26	Jan 1994	20	16.4	Jan 1977	5091	1038	.6	22.4	272.7	23.2	109.1	1.9

\+ 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

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Climate Division: WV 1 **NWS Call Sign: PKB** **Elevation: 620 Feet** **Lat: 39˚17N** **Lon: 81˚33W**

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	2.77	2.52	1.70	1951	14	5.79	1999	.17	1981
Feb	2.71	2.71	2.91	2000	19	7.26	1989	.47	1978
Mar	3.59	3.18	3.64	1997	2	9.42	1997	1.31	1971
Apr	3.21	2.59	2.85	1948	12	6.63	1983	.96	1976
May	4.15	3.78	2.49	1968	24	9.06	1996	1.36	1977
Jun	3.92	3.65	4.16	1998	28	13.20	1998	.16	1984
Jul	4.58	4.31	4.20	1985	15	8.46	1992	1.06	1995
Aug	4.01	3.90	3.52	1935	1	8.06	1989	.65	1983
Sep	3.13	3.03	2.96	1945	23	6.94	1989	.59	1985
Oct	2.58	2.11	3.40	1954	15	6.34	1983	.63	1992
Nov	3.00	2.62	2.03	1988	20	7.39	1985	.34	1976
Dec	3.04	2.60	2.75	1991	3	8.21	1990	1.19	1989
Ann	40.69	40.91	4.20	Jul 1985	15	13.20	Jun 1998	.16	Jun 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.0	6.8	1.9	.3
Feb	10.6	6.3	1.4	.5
Mar	12.4	7.8	2.6	.6
Apr	12.4	8.0	2.0	.5
May	12.0	8.5	2.9	.8
Jun	10.9	7.3	2.4	.9
Jul	11.0	7.7	2.9	1.3
Aug	10.2	7.0	3.0	1.2
Sep	9.3	5.8	2.0	.8
Oct	9.3	5.7	1.9	.6
Nov	11.5	7.1	1.9	.3
Dec	12.5	7.2	1.7	.5
Ann	135.1	85.2	26.6	8.3

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	.78	1.04	1.44	1.79	2.12	2.48	2.87	3.33	3.93	4.87	5.75
Feb	.67	.92	1.32	1.67	2.02	2.38	2.79	3.27	3.91	4.91	5.85
Mar	1.37	1.70	2.18	2.58	2.96	3.34	3.76	4.24	4.86	5.81	6.68
Apr	1.11	1.41	1.85	2.22	2.58	2.95	3.35	3.81	4.41	5.34	6.19
May	1.45	1.84	2.41	2.89	3.35	3.82	4.33	4.93	5.69	6.88	7.96
Jun	.81	1.17	1.75	2.27	2.80	3.37	4.00	4.77	5.78	7.40	8.94
Jul	1.53	1.96	2.60	3.14	3.66	4.19	4.78	5.46	6.34	7.71	8.97
Aug	1.11	1.49	2.07	2.57	3.07	3.58	4.15	4.82	5.70	7.07	8.35
Sep	1.10	1.39	1.82	2.18	2.52	2.88	3.26	3.71	4.29	5.18	6.00
Oct	.67	.91	1.29	1.62	1.94	2.28	2.66	3.11	3.70	4.63	5.50
Nov	.89	1.18	1.60	1.97	2.33	2.70	3.11	3.60	4.22	5.20	6.11
Dec	1.00	1.29	1.71	2.07	2.42	2.77	3.17	3.62	4.21	5.12	5.97
Ann	29.04	31.29	34.18	36.37	38.31	40.19	42.13	44.28	46.88	50.64	53.90

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	6.0	3.2	1	#	12.0	1994	4	29.0	1978	23	1994	23	14	1994	4.1	1.9	.4	.2	@	4.4	2.3	.7	.0
Feb	5.2	2.6	1	#	6.0	1979	18	23.3	1979	14	1979	19	6	1979	2.8	1.3	.3	.2	.0	3.5	1.1	.4	.0
Mar	1.6	.8	#	#	4.8	1982	7	5.5	1971	17	1993	14	2	1984	1.3	.5	.1	.0	.0	.6	.1	.0	.0
Apr	.3	.0	#	0	4.3	1973	12	5.1	1973	2	1973	12	#+	1977	.3	.1	@	.0	.0	@	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	0	0	#	1980	26	#+	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.9	.0	#	0	5.3	1977	27	5.6	1977	4	1971	25	1	1971	.8	.2	.1	.1	.0	.3	.0	.0	.0
Dec	2.1	1.0	#	#	3.6	1981	22	12.0	1981	4	1984	7	#+	2000	2.0	.8	.1	.0	.0	.9	.0	.0	.0
Ann	16.1	7.6	N/A	N/A	12.0	Jan 1994	4	29.0	Jan 1978	23	Jan 1994	23	14	Jan 1994	11.3	4.8	1.0	.5	@	9.7	3.5	1.1	.0

+ 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	5/15	5/11	5/07	5/04	4/30	4/27	4/22	4/17
32	5/07	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/06
28	4/19	4/15	4/12	4/09	4/06	4/04	4/01	3/29	3/24
24	4/11	4/05	4/01	3/28	3/24	3/21	3/17	3/12	3/06
20	3/29	3/23	3/18	3/14	3/11	3/07	3/03	2/26	2/20
16	3/18	3/11	3/07	3/03	2/27	2/23	2/19	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	9/26	9/30	10/04	10/06	10/09	10/11	10/14	10/17	10/22
32	10/09	10/13	10/17	10/20	10/22	10/25	10/28	10/31	11/05
28	10/19	10/25	10/29	11/01	11/04	11/08	11/11	11/15	11/20
24	10/30	11/05	11/09	11/13	11/16	11/20	11/23	11/28	12/04
20	11/08	11/15	11/20	11/25	11/29	12/04	12/08	12/14	12/21
16	11/16	11/26	12/04	12/10	12/16	12/22	12/28	1/04	1/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	173	167	162	158	153	148	142	135
32	203	196	191	187	183	179	175	170	163
28	234	226	220	216	211	207	202	197	189
24	259	251	246	241	236	232	227	222	214
20	287	279	273	268	263	258	253	247	239
16	314	305	298	293	288	283	278	272	264

***** 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	1064	875	690	375	155	21	3	8	52	333	607	908	5091
60	909	735	540	241	80	5	0	0	15	215	460	753	3953
57	816	652	453	171	48	2	0	0	6	157	377	665	3347
55	756	598	397	132	32	1	0	0	3	124	323	608	2974
50	614	469	271	58	10	0	0	0	0	62	204	465	2153
32	200	120	29	0	0	0	0	0	0	0	9	110	468

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	159	169	362	619	960	1177	1345	1296	1045	712	392	225	8461
55	2	3	18	61	279	488	632	583	358	123	16	10	2573
57	0	0	12	40	233	429	570	521	301	94	10	5	2215
60	0	0	5	20	172	342	477	428	220	59	3	0	1726
65	0	0	0	4	92	208	325	280	107	22	0	0	1038
70	0	0	0	0	39	104	186	152	36	6	0	0	523

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	40	70	196	405	716	933	1097	1053	811	475	211	78	40	110	306	711	1427	2360	3457	4510	5321	5796	6007	6085
45	17	37	117	279	562	783	942	898	661	329	124	37	17	54	171	450	1012	1795	2737	3635	4296	4625	4749	4786
50	4	15	64	173	409	633	787	743	512	206	65	13	4	19	83	256	665	1298	2085	2828	3340	3546	3611	3624
55	0	1	33	96	272	484	632	588	366	108	28	5	0	1	34	130	402	886	1518	2106	2472	2580	2608	2613
60	0	0	10	47	158	339	477	433	234	49	8	0	0	0	10	57	215	554	1031	1464	1698	1747	1755	1755
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	31	48	131	255	447	620	749	715	520	285	126	44	31	79	210	465	912	1532	2281	2996	3516	3801	3927	3971

(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