

Climatography of the United States

No. 20

1971-2000

Station: BUCKHANNON, WV

COOP ID: 461220

Climate Division: WV 2

NWS Call Sign:

Elevation: 1,455 Feet Lat: 38° 59N

Lon: 80° 13W

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	39.7	18.3	29.0	77	1950	25	39.6	1974	-30+	1994	19	14.7	1977	1116	0	.0	.0	8.4	9.2	25.9	2.9
Feb	43.8	19.6	31.7	77	2000	27	38.8	1990	-20+	1996	5	17.5	1978	934	0	.0	.0	10.5	6.1	23.3	2.0
Mar	53.1	27.3	40.2	85	1954	25	48.0	1973	-13	1980	3	33.3	1999	769	0	.0	.0	19.8	1.8	19.8	.2
Apr	63.1	35.2	49.2	90	1986	28	54.2	1981	12	1985	10	44.3	1997	476	0	.0	@	26.5	.1	11.4	.0
May	72.5	45.7	59.1	90+	1974	14	66.0	1991	21	1966	10	53.6	1997	213	31	.0	.1	30.8	.0	2.1	.0
Jun	79.7	54.5	67.1	95	1999	11	70.7	1994	29	1977	8	61.7	1972	42	106	.0	.8	30.0	.0	.1	.0
Jul	83.0	59.5	71.3	97	1952	28	75.6	1999	39+	1963	9	67.9	1976	7	201	@	3.5	31.0	.0	.0	.0
Aug	81.5	57.4	69.5	97+	1953	30	74.2	1995	34	1965	29	65.6	1976	19	157	.0	2.5	31.0	.0	.0	.0
Sep	75.7	50.6	63.2	100	1953	3	66.7	1978	26	1951	29	60.1	1984	96	41	.0	.5	30.0	.0	.3	.0
Oct	65.7	38.2	52.0	90	1951	3	59.5	1984	11+	1952	21	45.3	1988	411	6	.0	.0	29.1	.0	8.8	.0
Nov	54.1	29.8	42.0	82	1948	5	50.4	1985	-1	1958	30	33.1	1976	691	0	.0	.0	19.4	.9	17.4	.0
Dec	44.4	23.2	33.8	79	1951	7	42.5	1984	-13	1983	25	20.2	1989	967	0	.0	.0	11.2	5.3	23.5	.8
Ann	63.0	38.3	50.7	100	Sep 1953	3	75.6	Jul 1999	-30+	Jan 1994	19	14.7	Jan 1977	5741	542	@	7.4	277.7	23.4	132.6	5.9

+ 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/normal/usnormals.html

Issue Date: February 2004

(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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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: BUCKHANNON, WV

COOP ID: 461220

Climate Division: WV 2

NWS Call Sign:

Elevation: 1,455 Feet Lat: 38°59N

Lon: 80°13W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.83	4.30	1.69	1952	27	6.65	1972	1.27	1981	18.0	9.6	2.1	.4	1.37	1.73	2.25	2.69	3.11	3.53	4.00	4.54	5.23	6.30	7.28
Feb	3.42	3.14	3.43	1994	9	6.81	1994	1.32	1978	14.8	8.5	1.9	.4	1.46	1.77	2.20	2.56	2.89	3.22	3.58	4.00	4.52	5.32	6.04
Mar	4.28	4.02	2.72	1967	6	8.38	1997	1.42	1987	15.1	9.3	3.2	.8	1.85	2.24	2.77	3.21	3.63	4.04	4.49	5.00	5.65	6.64	7.53
Apr	3.82	3.68	1.96	1980	9	6.92	1972	1.07	1971	14.4	8.7	2.3	.6	1.57	1.92	2.41	2.82	3.20	3.59	4.00	4.49	5.09	6.02	6.87
May	4.67	4.35	1.92+	1969	9	12.85	1996	1.43	1987	13.8	9.4	2.8	1.0	1.55	1.99	2.64	3.19	3.72	4.27	4.86	5.56	6.46	7.86	9.14
Jun	4.80	4.27	4.56	1950	25	10.09	1998	1.28	1988	13.3	8.7	3.0	1.2	1.69	2.14	2.80	3.35	3.88	4.42	5.01	5.70	6.59	7.95	9.20
Jul	4.80	4.73	2.73	1976	24	9.04	1996	1.88	1987	12.3	8.4	3.0	1.2	2.33	2.75	3.31	3.76	4.18	4.59	5.04	5.54	6.18	7.13	7.98
Aug	4.50	4.51	3.43	1949	15	8.80	1980	1.85	1976	12.4	8.0	3.3	1.1	2.08	2.47	3.02	3.46	3.87	4.28	4.72	5.23	5.86	6.82	7.68
Sep	4.00	4.11	3.07	1967	28	8.20	1993	.36	1985	10.3	6.7	2.7	.9	1.23	1.61	2.18	2.67	3.14	3.62	4.16	4.79	5.60	6.87	8.05
Oct	3.14	3.20	3.54	1954	15	7.20	1976	.42	1994	11.0	6.9	2.1	.6	.88	1.18	1.63	2.03	2.41	2.81	3.26	3.78	4.46	5.53	6.53
Nov	3.76	3.82	3.26	1985	4	11.59	1985	1.43	1990	13.7	8.2	2.4	.7	1.31	1.66	2.18	2.62	3.03	3.46	3.93	4.47	5.17	6.25	7.24
Dec	3.96	3.44	2.25	1948	15	8.18	1978	1.82	1971	17.0	9.2	2.2	.7	1.71	2.07	2.56	2.97	3.35	3.74	4.15	4.63	5.23	6.14	6.96
Ann	48.98	49.41	4.56	Jun 1950	25	12.85	May 1996	.36	Sep 1985	166.1	101.6	31.0	9.6	38.16	40.33	43.07	45.12	46.92	48.65	50.42	52.36	54.69	58.04	60.91

+ 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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Climate Division: WV 2

NWS Call Sign:

Elevation: 1,455 Feet

Lat: 38°59N

Lon: 80°13W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	18.1	19.0	3	2	15.0	1996	8	44.0	1978	18	1996	10	8	1977	9.4	6.1	2.0	.5	.1	14.4	9.4	6.2	1.8
Feb	13.2	11.0	2	2	15.0	1983	11	28.9	1979	15	1983	11	9	1979	6.6	4.0	1.1	.4	@	10.5	6.4	4.3	1.1
Mar	7.2	7.1	1	#	18.0	1993	14	19.4	1971	24	1993	14	4	1993	4.4	2.3	.7	.2	@	3.9	1.7	.8	.0
Apr	1.4	.2	#	#	3.2	1973	12	5.7	1973	3	1982	6	#+	1997	.9	.7	.1	.0	.0	.3	@	.0	.0
May	#	.0	0	0	#	1980	8	#	1980	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	.1	.0	#	0	2.0	1972	19	2.0	1972	1	1993	31	#+	1993	.1	.1	.0	.0	.0	@	.0	.0	.0
Nov	2.7	1.0	#	#	7.0	1995	15	17.1	1976	7	1995	15	1	1995	2.0	1.2	.4	.1	.0	1.6	.5	.1	.0
Dec	8.1	5.4	1	#	12.0	1973	9	25.0	1973	12	1973	9	3	1973	5.5	3.3	.5	.2	@	5.8	2.3	.8	.1
Ann	50.8	43.7	N/A	N/A	18.0	Mar 1993	14	44.0	Jan 1978	24	Mar 1993	14	9	Feb 1979	28.9	17.7	4.8	1.4	.1	36.5	20.3	12.2	3.0

+ 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

Complete documentation available from:

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Lat: 38° 59N

Lon: 80° 13W

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	6/06	5/31	5/27	5/23	5/20	5/16	5/13	5/08	5/02
32	5/27	5/21	5/17	5/14	5/10	5/07	5/04	4/30	4/24
28	5/13	5/07	5/03	4/30	4/27	4/24	4/21	4/17	4/12
24	4/29	4/24	4/20	4/17	4/13	4/10	4/07	4/03	3/29
20	4/18	4/12	4/08	4/05	4/02	3/30	3/26	3/23	3/17
16	4/08	4/01	3/26	3/22	3/18	3/14	3/09	3/04	2/25
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	9/17	9/21	9/24	9/26	9/28	9/30	10/03	10/05	10/09
32	9/25	9/29	10/02	10/05	10/07	10/10	10/13	10/16	10/20
28	10/04	10/08	10/11	10/14	10/17	10/19	10/22	10/25	10/29
24	10/14	10/19	10/23	10/27	10/30	11/02	11/06	11/10	11/16
20	10/24	10/29	11/02	11/05	11/08	11/11	11/14	11/18	11/23
16	11/06	11/13	11/18	11/22	11/26	11/30	12/04	12/09	12/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	150	143	138	134	131	127	123	118	111
32	171	164	158	154	149	145	140	135	127
28	191	184	179	175	172	168	164	159	153
24	224	215	209	204	199	194	189	183	174
20	243	235	229	224	219	215	209	204	195
16	284	273	265	259	252	246	239	231	221

* 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

Complete documentation available from:

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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	1116	934	769	476	213	42	7	19	96	411	691	967	5741
60	961	794	614	330	112	9	0	2	31	275	542	812	4482
57	868	710	523	249	68	3	0	0	13	205	455	719	3813
55	806	654	466	199	46	1	0	0	6	165	400	663	3406
50	663	521	326	99	13	0	0	0	1	86	269	519	2497
32	228	142	36	0	0	0	0	0	0	1	20	137	564

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	135	133	291	514	841	1054	1217	1162	934	619	320	193	7413
55	0	0	7	23	174	365	504	449	251	70	9	6	1858
57	0	0	2	13	134	307	442	387	197	49	4	0	1535
60	0	0	0	4	85	223	349	295	125	25	1	0	1107
65	0	0	0	0	31	106	201	157	41	6	0	0	542
70	0	0	0	0	7	32	85	62	6	0	0	0	192

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	43	59	175	339	622	837	993	946	724	402	176	76	43	102	277	616	1238	2075	3068	4014	4738	5140	5316	5392
45	19	24	95	223	467	687	838	791	574	264	101	36	19	43	138	361	828	1515	2353	3144	3718	3982	4083	4119
50	1	9	48	131	323	537	683	636	427	150	45	15	1	10	58	189	512	1049	1732	2368	2795	2945	2990	3005
55	0	0	19	66	196	389	528	482	288	73	11	1	0	0	19	85	281	670	1198	1680	1968	2041	2052	2053
60	0	0	3	25	101	248	373	327	164	24	2	0	0	0	3	28	129	377	750	1077	1241	1265	1267	1267
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	32	49	132	241	403	551	671	629	467	271	124	49	32	81	213	454	857	1408	2079	2708	3175	3446	3570	3619

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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