

Climatography of the United States

No. 20

1971-2000

Station: BECKLEY AP, WV

COOP ID: 460582

Climate Division: WV 4

NWS Call Sign: BKW

Elevation: 2,504 Feet Lat: 37°48N

Lon: 81°07W

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	38.8	22.1	30.4	69	1985	1	41.4	1974	-22	1985	21	16.5	1977	1068	0	.0	.0	6.8	9.7	24.8	2.0
Feb	42.8	24.9	33.9	74	1977	26	42.2	1976	-16	1996	5	21.6	1978	882	0	.0	.0	9.2	6.7	20.9	.8
Mar	51.9	32.4	42.1	81+	1989	28	48.6	1973	-5	1980	3	36.1	1971	714	1	.0	.0	17.8	2.2	16.3	.1
Apr	62.5	40.6	51.5	86	1976	18	56.4	1994	11	1985	10	46.9	1997	414	8	.0	.0	25.5	.2	6.9	.0
May	70.6	49.2	59.9	89+	1996	19	66.4	1991	23	1966	10	54.2	1997	199	29	.0	.0	30.6	.0	.8	.0
Jun	77.0	57.0	67.0	90	1964	23	70.2	1984	32	1972	11	61.8	1972	48	99	.0	.0	30.0	.0	@	.0
Jul	80.2	61.1	70.7	94+	1988	8	74.1	1993	41+	1963	10	67.5	2000	10	183	.0	.6	31.0	.0	.0	.0
Aug	78.9	59.8	69.3	96	1988	17	73.7	1988	36+	1965	29	66.3	1976	16	149	.0	.4	31.0	.0	.0	.0
Sep	72.6	53.5	63.1	92	1998	14	67.0	1998	30	1983	24	59.6	1974	115	56	.0	@	29.9	.0	.1	.0
Oct	63.1	42.4	52.8	81+	1969	2	61.4	1984	18+	1965	29	46.4	1988	388	4	.0	.0	27.9	@	4.8	.0
Nov	52.4	34.4	43.4	78	1993	14	52.4	1985	4	1970	25	34.5	1976	647	0	.0	.0	18.1	1.7	14.2	.0
Dec	43.1	26.5	34.8	73+	1971	10	45.2	1984	-18	1989	23	22.4	1989	926	0	.0	.0	10.1	6.1	21.9	.7
Ann	61.2	42.0	51.6	96	Aug 1988	17	74.1	Jul 1993	-22	Jan 1985	21	16.5	Jan 1977	5427	529	.0	1.0	267.9	26.6	110.7	3.6

+ 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: 1963-2001

(3) Derived from 1971-2000 serially complete daily data

005-A

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No. 20

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

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COOP ID: 460582

Climate Division: WV 4

NWS Call Sign: BKW

Elevation: 2,504 Feet Lat: 37°48N

Lon: 81°07W

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	3.23	3.03	2.10	1995	6	6.36	1974	.53	1983	16.5	8.0	1.9	.3	.89	1.20	1.66	2.07	2.47	2.89	3.35	3.90	4.61	5.72	6.76
Feb	2.96	2.73	2.11	1994	9	6.01	1972	.98	1978	14.5	7.6	1.6	.4	1.28	1.55	1.92	2.22	2.51	2.80	3.11	3.46	3.91	4.59	5.20
Mar	3.63	3.12	1.97	1967	6	9.18	1975	1.79	1981	15.5	8.9	2.3	.4	1.29	1.63	2.12	2.54	2.94	3.34	3.79	4.31	4.97	5.99	6.93
Apr	3.43	3.34	3.59	1977	4	7.63	1987	.28	1976	14.4	7.8	2.0	.4	1.09	1.42	1.90	2.31	2.71	3.12	3.57	4.09	4.77	5.83	6.81
May	4.39	4.40	2.06	1993	11	7.58	1998	1.03	1977	14.4	9.5	3.1	.9	1.82	2.22	2.78	3.25	3.68	4.13	4.60	5.15	5.85	6.91	7.87
Jun	3.92	3.84	2.47	1983	20	7.00+	1998	1.26	1999	13.0	8.3	2.8	.6	1.60	1.96	2.47	2.89	3.28	3.68	4.11	4.61	5.24	6.20	7.07
Jul	4.78	4.31	3.48	2001	26	9.61	1982	1.65	1993	13.0	8.6	3.4	1.3	1.98	2.42	3.03	3.54	4.01	4.49	5.01	5.61	6.36	7.52	8.56
Aug	3.45	3.50	2.55	1980	18	5.93	1977	1.52	1998	11.0	7.0	2.3	.7	1.77	2.06	2.44	2.75	3.04	3.32	3.62	3.96	4.39	5.02	5.59
Sep	3.23	2.91	4.35	1964	29	6.65	1996	.54	1985	11.1	6.4	2.0	.7	.95	1.25	1.72	2.11	2.50	2.91	3.35	3.88	4.56	5.63	6.62
Oct	2.64	2.62	3.13	1989	17	5.91	1990	.49	2000	10.2	6.1	1.6	.4	.73	.98	1.36	1.69	2.02	2.36	2.73	3.18	3.75	4.66	5.50
Nov	2.88	2.57	2.50	1985	4	6.33	1985	1.25	1981	12.6	7.1	1.7	.4	1.20	1.46	1.83	2.13	2.42	2.71	3.02	3.38	3.84	4.53	5.16
Dec	3.09	2.73	1.78	1969	30	6.43	1991	1.06	1980	15.2	7.7	1.8	.3	1.20	1.49	1.90	2.24	2.56	2.88	3.23	3.64	4.16	4.96	5.68
Ann	41.63	40.79	4.35	Sep 1964	29	9.61	Jul 1982	.28	Apr 1976	161.4	93.0	26.5	6.8	32.53	34.36	36.67	38.39	39.91	41.36	42.85	44.48	46.44	49.26	51.66

+ 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: 1963-2001

(3) Derived from 1971-2000 serially complete daily data

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Climate Division: WV 4

NWS Call Sign: BKW

Elevation: 2,504 Feet

Lat: 37°48N

Lon: 81°07W

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	13.9	11.9	2	1	14.0	1998	27	37.3	1996	24	1998	28	11	1977	9.5	4.1	1.4	.3	.1	13.2	7.7	4.7	1.9
Feb	15.2	13.0	2	2	10.0	1996	2	28.4	1998	19	1998	7	6+	1998	9.8	4.3	1.5	.6	.0	11.8	7.2	4.6	.9
Mar	8.5	5.2	1	1	27.7	1993	13	35.5	1993	30	1993	14	5	1993	5.8	2.4	.6	.2	@	4.7	2.0	1.1	.4
Apr	2.7	1.0	#	0	13.1	1987	3	18.6	1987	15+	1987	6	2	1987	2.4	.7	.3	.1	@	.9	.4	.2	.1
May	.1	.0	#	0	1.3	1989	7	1.3	1989	#	1989	7	#	1998	.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	.6	.0	#	0	6.5	1993	31	6.5	1993	2+	1993	31	#	1993	.4	.2	@	@	.0	.2	.0	.0	.0
Nov	3.6	2.5	#	0	6.0	1974	30	13.1	1974	5+	1995	16	1+	1995	3.7	1.1	.3	@	.0	2.3	.5	.1	.0
Dec	10.2	8.9	1	0	6.9	1973	21	26.5	1993	14	1974	3	4	1989	8.0	3.4	1.0	.2	.0	8.1	3.8	1.5	.2
Ann	54.8	42.5	N/A	N/A	27.7	Mar 1993	13	37.3	Jan 1996	30	Mar 1993	14	11	Jan 1977	39.6	16.2	5.1	1.4	.1	41.2	21.6	12.2	3.5

+ 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: 37° 48N

Lon: 81° 07W

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	5/31	5/25	5/21	5/17	5/14	5/10	5/06	5/02	4/26
32	5/21	5/14	5/10	5/06	5/03	4/29	4/25	4/21	4/14
28	4/28	4/23	4/20	4/17	4/14	4/12	4/09	4/05	4/01
24	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/26	3/21
20	4/08	4/02	3/29	3/25	3/21	3/18	3/14	3/10	3/04
16	3/31	3/25	3/20	3/15	3/11	3/07	3/03	2/26	2/19
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	9/18	9/22	9/25	9/28	10/01	10/04	10/06	10/10	10/14
32	9/28	10/02	10/05	10/07	10/10	10/12	10/14	10/17	10/21
28	10/07	10/13	10/17	10/21	10/24	10/28	10/31	11/05	11/11
24	10/20	10/26	10/30	11/03	11/06	11/10	11/14	11/18	11/24
20	10/29	11/04	11/08	11/12	11/15	11/18	11/22	11/26	12/02
16	11/09	11/16	11/21	11/25	11/29	12/03	12/08	12/13	12/20
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	162	155	149	144	140	135	130	125	117
32	181	174	168	164	159	155	150	145	137
28	216	208	202	197	192	187	182	177	168
24	238	230	225	220	215	211	206	201	193
20	265	256	249	243	238	233	227	220	211
16	290	280	273	268	262	257	251	244	234

* 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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Elevation: 2,504 Feet Lat: 37°48N Lon: 81°07W

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	1068	882	714	414	199	48	10	16	115	388	647	926	5427
60	916	732	555	264	103	9	0	1	34	253	501	781	4149
57	823	648	468	189	62	3	0	0	14	186	418	693	3504
55	764	592	411	145	41	1	0	0	7	148	364	636	3109
50	621	461	279	64	12	0	0	0	1	74	242	493	2247
32	204	103	26	0	0	0	0	0	0	0	19	128	480

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	125	165	350	585	856	1042	1193	1155	929	641	361	192	7594
55	1	3	22	77	188	356	480	442	255	73	20	4	1921
57	0	1	14	56	146	299	418	381	206	49	11	2	1583
60	0	0	7	31	92	218	326	289	139	24	4	1	1131
65	0	0	1	8	29	99	183	149	56	4	0	0	529
70	0	0	0	1	3	22	65	43	10	0	0	0	144

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	44	76	181	369	618	814	952	918	702	409	194	79	44	120	301	670	1288	2102	3054	3972	4674	5083	5277	5356
45	20	34	108	245	466	664	797	763	552	272	115	40	20	54	162	407	873	1537	2334	3097	3649	3921	4036	4076
50	2	14	60	151	321	514	642	608	404	159	57	17	2	16	76	227	548	1062	1704	2312	2716	2875	2932	2949
55	0	1	26	83	192	367	487	453	264	77	20	0	0	1	27	110	302	669	1156	1609	1873	1950	1970	1970
60	0	0	6	35	95	225	334	300	149	30	3	0	0	0	6	41	136	361	695	995	1144	1174	1177	1177
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	25	43	108	222	370	521	642	605	428	231	106	37	25	68	176	398	768	1289	1931	2536	2964	3195	3301	3338

(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.
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