

Climatology of the United States

No. 20

1971-2000

Station: BECKLEY VA HOSPITAL, WV

COOP ID: 460580

Climate Division: WV 4

NWS Call Sign:

Elevation: 2,330 Feet Lat: 37°46N

Lon: 81°12W

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	38.9	18.1	28.5	74	1950	25	41.0	1974	-23+	1985	21	13.5	1977	1132	0	.0	.0	7.4	9.0	26.0	2.8
Feb	43.3	19.6	31.5	75	1977	26	39.8	1990	-22	1996	5	20.0	1978	940	0	.0	.0	10.3	5.9	23.4	1.4
Mar	52.3	26.7	39.5	82+	1954	25	45.6	1973	-10	1980	3	33.4	1999	791	0	.0	.0	19.4	2.0	20.1	.2
Apr	62.3	34.9	48.6	88+	1976	18	53.7	1981	9	1985	10	43.5	1997	492	0	.0	.0	26.2	.1	10.9	.0
May	70.3	45.1	57.7	89	1974	14	64.1	1991	22+	1963	2	52.1	1997	246	19	.0	.0	30.8	.0	2.6	.0
Jun	75.2	53.5	64.4	93+	1952	16	67.5	1994	29+	1966	2	59.1	1972	78	58	.0	@	30.0	.0	.1	.0
Jul	78.2	58.0	68.1	94	1954	14	71.9	1993	37+	1963	10	65.2	1979	25	121	.0	.6	31.0	.0	.0	.0
Aug	77.2	56.3	66.8	96	1988	17	70.7	1995	34	1965	29	62.6	1976	44	99	.0	.5	31.0	.0	.0	.0
Sep	71.3	49.8	60.6	97	1953	2	64.4	1998	25+	1951	29	57.0	1974	152	18	.0	@	29.9	.0	.6	.0
Oct	62.2	37.6	49.9	86	1959	4	57.0	1984	9	1962	27	42.8	1988	473	4	.0	.0	28.4	.0	8.7	.0
Nov	52.5	29.0	40.8	80	1971	1	48.0	1985	1	1950	25	30.8	1976	728	0	.0	.0	18.8	1.3	18.0	.0
Dec	43.1	22.3	32.7	75	1982	4	42.4	1971	-22	1989	23	20.4	1989	1003	0	.0	.0	10.6	5.9	24.5	1.2
Ann	60.6	37.6	49.1	97	Sep 1953	2	71.9	Jul 1993	-23+	Jan 1985	21	13.5	Jan 1977	6104	319	.0	1.1	273.8	24.2	134.9	5.6

+ 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: 1948-2001

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

004-A

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No. 20 1971-2000

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

Station: BECKLEY VA HOSPITAL, WV

COOP ID: 460580

Climate Division: WV 4

NWS Call Sign:

Elevation: 2,330 Feet Lat: 37°46N

Lon: 81°12W

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	3.14	3.00	1.97	1998	28	6.59	1979	.68	1983	14.7	7.8	1.8	.4	1.03	1.33	1.77	2.14	2.50	2.87	3.28	3.75	4.36	5.31	6.18
Feb	2.68	2.39	1.76	1972	26	5.69	1972	.82	1988	13.0	7.1	1.4	.3	1.14	1.38	1.72	2.00	2.26	2.53	2.81	3.14	3.55	4.19	4.76
Mar	3.17	2.47	2.99	1963	12	7.94	1975	.94	1984	12.9	8.1	2.1	.3	1.08	1.38	1.81	2.18	2.54	2.90	3.30	3.77	4.37	5.29	6.15
Apr	3.37	3.12	2.64	1977	5	7.58	1987	.79	1976	12.3	7.9	2.1	.6	1.32	1.64	2.08	2.45	2.80	3.15	3.53	3.97	4.54	5.40	6.18
May	4.17	4.28	2.00	1985	23	9.12	1985	1.25	1977	12.7	9.0	2.6	.7	1.52	1.91	2.48	2.95	3.40	3.86	4.36	4.94	5.69	6.83	7.88
Jun	3.47	3.43	3.40	1949	17	7.92	1979	1.58	1999	11.5	7.7	2.1	.6	1.47	1.79	2.23	2.59	2.92	3.27	3.64	4.06	4.59	5.41	6.15
Jul	4.53	4.35	5.31	2001	27	9.99	1982	1.22	1995	11.4	8.2	2.9	1.1	1.83	2.24	2.83	3.32	3.78	4.24	4.74	5.32	6.06	7.18	8.20
Aug	3.52	3.42	2.73	1954	6	6.42	1996	1.36	1988	9.8	6.7	2.2	.9	1.52	1.83	2.28	2.64	2.98	3.32	3.69	4.11	4.64	5.45	6.18
Sep	3.20	2.88	4.57	1964	29	6.85	1976	.37	1985	9.0	6.0	2.1	.7	.84	1.14	1.60	2.01	2.41	2.83	3.30	3.86	4.59	5.73	6.80
Oct	2.52	2.45	3.37	1954	16	6.86	1976	.40	2000	8.5	5.5	1.3	.3	.54	.77	1.14	1.48	1.82	2.18	2.58	3.07	3.71	4.73	5.69
Nov	2.84	2.63	2.17	1999	26	7.14	1985	.84	1981	10.5	6.7	1.7	.4	1.09	1.36	1.73	2.05	2.34	2.64	2.97	3.35	3.83	4.56	5.24
Dec	2.91	2.69	2.21	1948	15	6.46	1991	.94	1995	13.2	7.1	1.8	.3	1.06	1.33	1.72	2.05	2.37	2.69	3.04	3.44	3.96	4.76	5.50
Ann	39.52	38.62	5.31	Jul 2001	27	9.99	Jul 1982	.37	Sep 1985	139.5	87.8	24.1	6.6	30.52	32.32	34.59	36.29	37.79	39.23	40.70	42.31	44.26	47.05	49.44

+ 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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COOP ID: 460580

Climate Division: WV 4

NWS Call Sign:

Elevation: 2,330 Feet

Lat: 37°46N

Lon: 81°12W

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	13.3	13.7	2	1	28.0	1998	28	34.7	1998	28	1998	28	10	1977	5.9	4.1	1.1	.2	@	6.3	2.2	1.2	.0
Feb	10.3	12.0	2	1	13.5	1983	11	17.0	1971	20	1998	7	7	1979	4.1	3.1	1.1	.3	@	4.7	2.4	1.0	.1
Mar	4.9	3.2	#	#	26.0	1993	13	26.0	1993	26	1993	13	4	1993	2.8	1.9	.5	.2	.1	2.7	1.0	.6	.2
Apr	.9	.0	#	#	6.2	1971	7	6.2	1971	17	1987	5	2	1987	.4	.3	.1	@	.0	.3	@	@	.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	#	1992	20	#+	1992	4	1993	31	#+	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.6	.9	#	#	5.0	1976	12	9.0	1976	5	1976	12	1	1995	1.2	.8	.1	@	.0	1.1	.1	@	.0
Dec	4.9	3.3	1	1	7.5	1997	30	17.0	1989	9	1997	31	3	1989	4.1	2.6	.6	.2	.0	5.1	2.5	.7	.0
Ann	35.9	33.1	N/A	N/A	28.0	Jan 1998	28	34.7	Jan 1998	28	Jan 1998	28	10	Jan 1977	18.5	12.8	3.5	.9	.1	20.2	8.2	3.5	.3

+ 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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NWS Call Sign:

Elevation: 2,330 Feet

Lat: 37° 46N

Lon: 81° 12W

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	6/10	6/04	5/30	5/27	5/23	5/19	5/16	5/11	5/05
32	5/31	5/24	5/20	5/16	5/12	5/09	5/05	4/30	4/24
28	5/13	5/09	5/06	5/03	5/01	4/28	4/26	4/23	4/18
24	5/02	4/26	4/22	4/18	4/15	4/11	4/08	4/03	3/28
20	4/17	4/12	4/08	4/05	4/02	3/31	3/28	3/24	3/19
16	4/05	3/29	3/24	3/20	3/17	3/13	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	9/12	9/16	9/20	9/22	9/25	9/27	9/30	10/03	10/08
32	9/19	9/23	9/27	9/29	10/02	10/04	10/07	10/10	10/14
28	10/01	10/05	10/08	10/11	10/13	10/15	10/18	10/21	10/25
24	10/10	10/16	10/20	10/23	10/27	10/30	11/03	11/07	11/12
20	10/18	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/24
16	11/03	11/10	11/14	11/18	11/22	11/26	11/30	12/04	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	138	133	128	124	120	115	110	102
32	163	156	150	146	142	138	133	128	121
28	184	177	173	168	165	161	156	152	145
24	221	212	205	200	194	189	183	177	168
20	242	233	227	221	216	211	206	199	191
16	280	270	262	256	250	244	237	230	219

* 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: 2,330 Feet Lat: 37°46N Lon: 81°12W

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	1132	940	791	492	246	78	25	44	152	473	728	1003	6104
60	977	800	636	344	134	21	3	8	60	332	578	848	4741
57	884	716	543	260	84	7	0	1	30	256	491	755	4027
55	822	660	485	209	58	3	0	0	17	212	434	693	3593
50	680	522	343	103	17	0	0	0	3	121	301	552	2642
32	245	132	37	0	0	0	0	0	0	3	27	154	598

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	117	270	499	796	971	1119	1077	857	557	289	175	6863
55	0	0	4	17	141	284	406	364	183	52	6	0	1457
57	0	0	0	8	105	228	344	303	136	35	3	0	1162
60	0	0	0	2	62	151	254	217	77	18	0	0	781
65	0	0	0	0	19	58	121	99	18	4	0	0	319
70	0	0	0	0	4	11	38	28	1	0	0	0	82

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	35	53	164	339	591	769	908	869	653	363	158	62	35	88	252	591	1182	1951	2859	3728	4381	4744	4902	4964
45	12	22	88	217	437	619	753	714	505	234	87	29	12	34	122	339	776	1395	2148	2862	3367	3601	3688	3717
50	1	7	42	127	292	470	598	559	359	128	37	9	1	8	50	177	469	939	1537	2096	2455	2583	2620	2629
55	0	0	10	62	168	324	443	405	222	58	8	0	0	0	10	72	240	564	1007	1412	1634	1692	1700	1700
60	0	0	2	17	72	188	288	252	112	14	0	0	0	0	2	19	91	279	567	819	931	945	945	945
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	27	46	121	237	373	493	597	565	401	227	110	39	27	73	194	431	804	1297	1894	2459	2860	3087	3197	3236

(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