

Climatography of the United States

No. 20

1971-2000

Station: BLUEFIELD AP, WV

COOP ID: 460921

Climate Division: WV 5

NWS Call Sign: BLF

Elevation: 2,891 Feet Lat: 37° 18N

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	40.3	25.0	32.7	72	1985	1	44.2	1974	-21	1985	21	21.3	1977	1004	0	.0	.0	7.9	8.7	23.9	1.1
Feb	44.3	27.9	36.1	75	1977	26	44.4	1976	-9	1996	5	24.2	1978	810	0	.0	.0	10.1	6.5	19.2	.4
Mar	53.8	35.3	44.6	83	1985	30	52.5	1973	-2	1980	3	38.3	1981	635	1	.0	.0	18.9	2.3	14.2	@
Apr	63.8	43.8	53.8	88+	1976	18	61.4	1977	15	1982	7	49.3	1987	344	8	.0	.0	25.8	.3	5.0	.0
May	70.9	51.7	61.3	88	1996	19	66.3	1987	24	1966	10	56.4	1994	166	50	.0	.0	30.5	.0	.2	.0
Jun	76.8	59.2	68.0	91	1988	25	72.6	1984	37	1972	11	63.1	1972	33	122	.0	.1	30.0	.0	.0	.0
Jul	80.3	62.9	71.6	96	1988	16	75.5	1977	40	1963	10	68.6	2000	5	209	.0	.7	31.0	.0	.0	.0
Aug	79.7	61.9	70.8	95	1988	17	75.7	1988	20	1960	24	67.6	1992	13	192	.0	.8	31.0	.0	.0	.0
Sep	73.3	56.2	64.8	92+	1998	13	69.5	1978	30	1989	24	62.1	1974	75	66	.0	.1	29.8	.0	@	.0
Oct	63.9	45.7	54.8	82+	1989	15	64.9	1984	18	1962	27	47.6	1988	331	15	.0	.0	28.1	@	2.5	.0
Nov	53.1	37.3	45.2	81	1993	14	53.4	1985	7+	1970	24	36.8	1976	595	0	.0	.0	18.7	1.5	11.7	.0
Dec	44.1	29.1	36.6	74	1982	4	47.6	1984	-13+	1983	25	24.5	1989	880	0	.0	.0	11.2	5.9	20.3	.5
Ann	62.0	44.7	53.4	96	Jul 1988	16	75.7	Aug 1988	-21	Jan 1985	21	21.3	Jan 1977	4891	663	.0	1.7	273.0	25.2	97.0	2.0

+ 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: 1959-2001

(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: BLUEFIELD AP, WV

COOP ID: 460921

Climate Division: WV 5

NWS Call Sign: BLF

Elevation: 2,891 Feet Lat: 37°18N

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	3.06	2.92	2.05	1972	20	6.97	1996	.72	1981	14.4	7.4	1.9	.3	.96	1.26	1.69	2.06	2.41	2.78	3.19	3.67	4.28	5.24	6.12
Feb	2.91	2.83	2.66	1987	27	4.58	1987	.78	1978	13.2	7.2	1.6	.4	1.29	1.55	1.91	2.20	2.48	2.75	3.05	3.39	3.81	4.46	5.05
Mar	3.63	3.36	2.20	1993	13	8.24	1993	1.74	1981	14.1	8.1	2.3	.6	1.58	1.91	2.36	2.73	3.08	3.43	3.81	4.24	4.78	5.61	6.36
Apr	3.39	3.59	3.37	1977	4	8.67	1987	.48	1976	12.8	7.3	2.1	.5	.92	1.24	1.73	2.16	2.58	3.02	3.51	4.09	4.85	6.03	7.13
May	4.31	4.16	2.40	2001	17	7.22	1971	1.87	1993	14.2	9.4	2.9	.9	2.18	2.54	3.03	3.42	3.78	4.13	4.51	4.95	5.48	6.29	7.01
Jun	3.85	3.72	3.61	1994	7	9.34	1995	.75	1999	12.6	7.6	2.7	.8	1.08	1.45	2.00	2.48	2.95	3.44	3.99	4.63	5.46	6.76	7.98
Jul	4.01	3.83	3.26	2001	8	10.24	1980	.97	1995	12.1	7.7	2.8	.9	1.64	2.00	2.52	2.95	3.35	3.76	4.20	4.70	5.35	6.33	7.22
Aug	3.20	3.18	2.15	1964	28	5.55	1989	.90	1976	10.1	6.6	2.5	.6	1.38	1.66	2.07	2.40	2.71	3.02	3.35	3.74	4.22	4.96	5.63
Sep	3.21	2.94	2.64	1979	5	7.69	1989	.38	1978	10.2	6.0	2.1	.7	.67	.96	1.43	1.86	2.29	2.76	3.28	3.90	4.73	6.06	7.31
Oct	2.61	2.44	3.18	1995	5	5.99	1976	.22	2000	9.2	5.0	1.9	.6	.51	.74	1.13	1.48	1.84	2.22	2.66	3.18	3.88	5.00	6.06
Nov	2.67	2.42	2.52	1962	9	5.63	1985	.65	1981	10.8	6.1	1.7	.4	.87	1.12	1.49	1.81	2.12	2.43	2.78	3.19	3.71	4.52	5.27
Dec	2.82	2.82	1.65	1969	30	4.78	1991	.77	1980	13.0	7.0	2.0	.4	1.03	1.29	1.67	1.99	2.29	2.61	2.95	3.34	3.84	4.62	5.33
Ann	39.67	39.70	3.61	Jun 1994	7	10.24	Jul 1980	.22	Oct 2000	146.7	85.4	26.5	7.1	31.11	32.83	34.99	36.61	38.04	39.40	40.80	42.33	44.17	46.81	49.06

+ 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: 1959-2001

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

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COOP ID: 460921

Climate Division: WV 5

NWS Call Sign: BLF

Elevation: 2,891 Feet

Lat: 37°18N

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	8.0	6.8	1	1	16.8	1998	28	26.8	1998	24+	1996	13	6+	1996	6.0	2.8	.8	.3	.1	10.3	5.5	2.9	1.0
Feb	8.8	7.5	1	1	9.0	1998	4	21.3	1987	13+	1998	7	4+	1998	6.5	2.9	.7	.3	.0	10.5	5.1	2.9	.3
Mar	4.0	1.8	#	1	16.3	1993	13	25.6	1993	24+	1993	15	3	1993	3.3	1.1	.3	.1	@	3.2	1.3	.8	.1
Apr	1.8	.1	#	0	9.5	1987	3	14.0	1971	15	1971	7	2	1987	1.2	.4	.2	.1	.0	.6	.3	.2	.1
May	#	.0	#	0	#	1989	7	#+	1989	#+	1989	7	#	2000	.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	.3	.0	#	0	3.2	1993	31	3.2	1993	2	1993	31	#	1993	.1	.1	@	.0	.0	.1	.0	.0	.0
Nov	1.8	.6	#	0	4.2	1976	11	10.3	1976	6	1976	12	1	1976	1.7	.6	.1	.0	.0	1.2	.5	@	.0
Dec	5.6	4.1	1	0	7.8	1988	9	16.3	1973	14	1974	3	4	1989	4.3	2.0	.6	.2	.0	6.2	2.6	1.6	.2
Ann	30.3	20.9	N/A	N/A	16.8	Jan 1998	28	26.8	Jan 1998	24+	Jan 1996	13	6+	Jan 1996	23.1	9.9	2.7	1.0	.1	32.1	15.3	8.4	1.7

+ 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

Complete documentation available from:

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NWS Call Sign: BLF

Elevation: 2,891 Feet

Lat: 37° 18N

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	5/22	5/16	5/11	5/08	5/04	5/01	4/27	4/23	4/17
32	5/03	4/28	4/24	4/21	4/18	4/15	4/12	4/08	4/03
28	4/22	4/17	4/13	4/09	4/06	4/03	3/30	3/26	3/21
24	4/15	4/09	4/05	4/01	3/29	3/26	3/22	3/18	3/12
20	4/04	3/29	3/24	3/19	3/15	3/11	3/07	3/02	2/23
16	3/22	3/15	3/10	3/05	3/01	2/25	2/21	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	9/27	10/02	10/05	10/07	10/10	10/12	10/15	10/18	10/23
32	10/04	10/10	10/14	10/17	10/20	10/24	10/27	10/31	11/06
28	10/13	10/19	10/24	10/28	10/31	11/04	11/08	11/13	11/19
24	10/24	10/30	11/03	11/07	11/11	11/14	11/18	11/22	11/28
20	11/07	11/13	11/18	11/22	11/25	11/29	12/03	12/08	12/14
16	11/18	11/24	11/29	12/02	12/06	12/09	12/13	12/18	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	180	172	167	162	158	154	149	144	136
32	210	201	195	189	185	180	174	168	159
28	234	225	218	213	208	202	197	190	181
24	252	243	237	231	226	221	215	208	199
20	280	271	265	259	254	249	244	237	229
16	304	295	289	284	279	274	269	263	254

* 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	1004	810	635	344	166	33	5	13	75	331	595	880	4891
60	849	670	489	215	81	6	0	1	22	209	453	727	3722
57	757	586	405	153	46	2	0	0	8	150	370	642	3119
55	701	532	353	118	29	0	0	0	4	117	319	584	2757
50	557	403	238	52	8	0	0	0	0	55	207	445	1965
32	165	76	22	0	0	0	0	0	0	0	13	105	381

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	184	190	412	654	907	1079	1227	1202	981	707	409	248	8200
55	8	3	29	82	223	390	514	489	295	111	24	14	2182
57	2	1	20	57	178	331	452	427	240	82	16	10	1816
60	0	0	11	29	120	245	359	334	164	48	8	2	1320
65	0	0	1	8	50	122	209	192	66	15	0	0	663
70	0	0	0	0	15	41	88	85	16	3	0	0	248

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	54	93	210	416	654	829	970	938	730	454	221	100	54	147	357	773	1427	2256	3226	4164	4894	5348	5569	5669
45	27	50	130	290	501	679	815	783	580	318	134	50	27	77	207	497	998	1677	2492	3275	3855	4173	4307	4357
50	3	19	65	188	352	529	660	628	432	192	71	24	3	22	87	275	627	1156	1816	2444	2876	3068	3139	3163
55	0	4	33	103	222	382	505	473	291	97	32	2	0	4	37	140	362	744	1249	1722	2013	2110	2142	2144
60	0	0	8	51	116	240	351	319	166	40	8	0	0	0	8	59	175	415	766	1085	1251	1291	1299	1299
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	29	49	117	240	386	535	654	626	444	249	115	45	29	78	195	435	821	1356	2010	2636	3080	3329	3444	3489

(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