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: BELINGTON, WV **COOP ID: 460633**

Climate Division: WV 2 **NWS Call Sign:** **Elevation: 1,800 Feet** **Lat: 39˚02N** **Lon: 79˚55W**

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	38.2	18.3	28.3	72	1973	1	39.2	1974	-25	1994	20	13.5	1977	1140	0	.0	.0	6.5	10.1	27.2	3.1
Feb	41.7	19.6	30.7	75+	2000	27	37.8	1976	-21	1996	5	17.1	1978	961	0	.0	.0	8.6	7.4	24.1	2.3
Mar	51.3	26.8	39.1	86	1989	29	48.0	1973	-10+	1978	2	32.6	1999	805	0	.0	.0	17.3	2.5	22.4	.6
Apr	61.5	34.6	48.1	89	1976	19	52.3	1999	12+	1977	7	43.0	1975	509	0	.0	.0	24.6	.2	13.9	.0
May	70.7	44.3	57.5	91	1996	20	64.4	1991	19	1995	8	52.5	1994	259	27	.0	.1	30.5	.0	3.3	.0
Jun	78.1	53.8	66.0	94	1999	9	69.0	1994	30+	1977	8	60.8	1972	57	84	.0	.4	30.0	.0	.1	.0
Jul	81.4	58.7	70.1	99	1988	17	73.2	1987	36	1988	1	66.4	1976	9	166	.0	1.4	31.0	.0	.0	.0
Aug	80.2	57.4	68.8	94+	1965	18	73.0	1988	37	1965	29	64.8	1994	28	145	.0	1.3	31.0	.0	.0	.0
Sep	74.3	50.3	62.3	93+	1964	10	65.9	1978	29+	1974	24	58.6	1994	118	37	.0	.2	30.0	.0	.3	.0
Oct	63.8	37.7	50.8	85	1969	14	59.1	1984	15+	1965	29	43.7	1988	447	6	.0	.0	28.0	.0	10.6	.0
Nov	52.8	29.7	41.3	80	1975	10	52.2	1985	2	1970	25	33.3	1976	713	0	.0	.0	17.9	1.7	19.5	.0
Dec	42.7	22.6	32.7	77	1966	10	41.7	1984	-19+	1989	22	18.5	1989	1003	0	.0	.0	9.6	7.2	25.3	1.4
Ann	61.4	37.8	49.6	99	Jul 1988	17	73.2	Jul 1987	-25	Jan 1994	20	13.5	Jan 1977	6049	465	.0	3.4	265.0	29.1	146.7	7.4

\+ 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: 1948-2001

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

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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	3.54	3.45	1.66	1971	1	5.84	1979	1.22	1981
Feb	3.42	3.36	2.67	2000	19	6.67	1994	1.07	1978
Mar	4.19	4.12	2.30	1967	6	8.10	1997	1.40	1987
Apr	4.02	3.65	1.94	1980	9	7.13	1973	1.22	1971
May	4.83	4.81	3.80	1996	17	14.96	1996	1.40	1987
Jun	4.67	4.01	3.82	1964	21	11.65	1981	1.60	1988
Jul	5.18	4.54	3.84	1998	24	13.32	1996	2.40	1987
Aug	4.17	3.92	3.06	1953	8	8.33	1980	1.63	1976
Sep	4.37	4.55	2.86	1997	29	8.84	1993	.91	1985
Oct	3.06	2.87	4.14	1954	16	7.81	1976	.49	1994
Nov	3.53	3.34	3.70	1985	6	8.57	1985	1.24	1998
Dec	3.71	3.43	2.21	1972	9	7.88+	1991	1.45	1985
Ann	48.69	48.14	4.14	Oct 1954	16	14.96	May 1996	.49	Oct 1994

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.1	9.9	2.1	.3
Feb	13.0	9.0	1.7	.5
Mar	13.4	10.0	3.1	.6
Apr	12.9	9.6	2.4	.4
May	12.6	10.4	3.2	.8
Jun	11.5	9.2	3.4	1.0
Jul	11.5	9.5	3.8	1.4
Aug	9.8	7.7	3.2	1.1
Sep	10.1	7.9	3.2	1.2
Oct	9.2	7.4	2.3	.4
Nov	11.3	8.6	2.4	.5
Dec	14.7	9.5	2.2	.5
Ann	145.1	108.7	33.0	8.7

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	1.32	1.65	2.13	2.52	2.90	3.29	3.71	4.19	4.81	5.76	6.63
Feb	1.31	1.63	2.08	2.46	2.82	3.18	3.58	4.03	4.62	5.51	6.33
Mar	1.88	2.25	2.77	3.19	3.58	3.98	4.40	4.88	5.49	6.42	7.25
Apr	1.60	1.98	2.50	2.94	3.34	3.76	4.21	4.73	5.39	6.40	7.32
May	1.63	2.08	2.75	3.32	3.86	4.42	5.04	5.75	6.67	8.10	9.41
Jun	1.53	1.97	2.63	3.18	3.71	4.26	4.87	5.57	6.48	7.89	9.18
Jul	2.52	2.96	3.57	4.05	4.51	4.96	5.44	5.98	6.67	7.70	8.62
Aug	1.87	2.24	2.75	3.17	3.56	3.96	4.38	4.86	5.46	6.38	7.22
Sep	1.64	2.05	2.63	3.12	3.58	4.06	4.57	5.16	5.92	7.09	8.15
Oct	.89	1.18	1.62	2.00	2.37	2.75	3.18	3.68	4.33	5.35	6.30
Nov	1.34	1.67	2.14	2.53	2.90	3.28	3.69	4.17	4.77	5.71	6.56
Dec	1.39	1.73	2.23	2.65	3.04	3.44	3.88	4.39	5.03	6.03	6.94
Ann	36.96	39.28	42.24	44.46	46.41	48.29	50.23	52.35	54.91	58.59	61.75

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	16.3	16.5	4	4
Feb	12.0	12.0	3	1
Mar	7.2	4.0	1	#
Apr	.4	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	2.1	1.8	#	#
Dec	6.2	4.0	1	1
Ann	44.3	38.3	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	22.0	1971	1	35.0	1971	29	1977	29	16	1977
Feb	10.0	1971	14	23.0	1983	29	1977	7	14	1977
Mar	21.0	1993	14	38.0	1971	21	1993	16	4	1993
Apr	3.0	1997	18	3.0+	1997	13	1987	5	1	1987
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1979	10	1.0	1979	1	1979	10	#+	2000
Nov	8.0	1976	12	13.0	1976	13	1995	17	2	1995
Dec	6.0	1973	9	24.0	1973	11+	1993	30	4	1995
Ann	22.0	Jan 1971	1	38.0	Mar 1971	29+	Feb 1977	7	16	Jan 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.5	5.0	1.5	.7	.1
Feb	4.6	3.6	1.2	.5	.1
Mar	3.0	2.1	.9	.3	@
Apr	.5	.3	@	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	@	.0	.0	.0
Nov	1.6	1.0	.2	@	.0
Dec	4.1	2.8	.7	.3	.0
Ann	20.4	14.8	4.5	1.8	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	17.1	10.6	6.9	2.0
Feb	11.9	7.9	5.9	3.3
Mar	4.5	1.9	1.0	.2
Apr	.5	.1	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	2.8	.7	.1	.0
Dec	8.1	3.1	1.4	.2
Ann	45.0	24.3	15.3	5.7

+ 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

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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	6/08	6/02	5/29	5/25	5/22	5/18	5/14	5/10	5/04
32	5/30	5/24	5/20	5/17	5/13	5/10	5/07	5/03	4/27
28	5/15	5/10	5/06	5/03	4/30	4/27	4/24	4/20	4/15
24	4/29	4/24	4/21	4/17	4/15	4/12	4/09	4/05	3/31
20	4/20	4/14	4/11	4/07	4/04	4/01	3/29	3/25	3/19
16	4/04	3/30	3/25	3/22	3/19	3/15	3/12	3/08	3/02

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	9/15	9/19	9/22	9/25	9/27	9/29	10/02	10/04	10/08
32	9/28	10/01	10/04	10/06	10/08	10/10	10/12	10/15	10/18
28	10/04	10/09	10/13	10/17	10/20	10/23	10/26	10/30	11/05
24	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/09	11/14
20	10/22	10/27	10/31	11/04	11/07	11/10	11/13	11/17	11/23
16	11/06	11/13	11/18	11/22	11/26	11/30	12/04	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	147	140	135	131	128	124	120	115	108
32	166	159	155	151	147	143	139	135	128
28	194	186	181	176	172	168	163	158	150
24	218	211	206	202	198	195	190	186	179
20	241	232	226	221	216	211	206	200	191
16	277	268	262	256	251	246	241	235	226

***** 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	1140	961	805	509	259	57	9	28	118	447	713	1003	6049
60	985	821	650	361	151	15	0	5	43	309	564	848	4752
57	892	737	559	278	101	5	0	0	20	236	478	755	4061
55	830	681	501	226	74	3	0	0	11	194	424	695	3639
50	685	545	360	117	27	0	0	0	2	109	293	552	2690
32	243	153	49	1	0	0	0	0	0	3	29	154	632

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	126	115	267	482	792	1018	1179	1141	909	585	307	174	7095
55	0	0	6	17	152	330	466	428	230	63	11	2	1705
57	0	0	2	9	117	273	404	366	179	44	6	0	1400
60	0	0	0	3	74	192	311	277	112	23	1	0	993
65	0	0	0	0	27	84	166	145	37	6	0	0	465
70	0	0	0	0	7	21	61	57	6	0	0	0	152

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	34	47	133	289	556	792	941	907	680	353	149	58	34	81	214	503	1059	1851	2792	3699	4379	4732	4881	4939
45	13	17	70	180	408	642	786	752	531	228	82	27	13	30	100	280	688	1330	2116	2868	3399	3627	3709	3736
50	0	2	32	102	268	493	631	597	385	125	40	10	0	2	34	136	404	897	1528	2125	2510	2635	2675	2685
55	0	0	11	48	157	346	476	442	253	55	11	0	0	0	11	59	216	562	1038	1480	1733	1788	1799	1799
60	0	0	3	17	77	214	322	289	137	15	0	0	0	0	3	20	97	311	633	922	1059	1074	1074	1074
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	26	40	106	212	359	512	625	596	431	239	111	42	26	66	172	384	743	1255	1880	2476	2907	3146	3257	3299

(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