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: OAK HILL, WV **COOP ID: 466591**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,991 Feet** **Lat: 37˚58N** **Lon: 81˚09W**

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	39.9	21.2	30.6	73	1973	1	40.7	1974	-20	1985	21	18.1	1977	1067	0	.0	.0	7.1	8.8	25.7	1.7
Feb	43.9	23.6	33.8	76	1977	27	41.6	1990	-11+	1996	5	23.2	1978	875	0	.0	.0	9.5	6.4	22.6	.8
Mar	53.0	30.8	41.9	86	1976	31	48.4	1976	-2	1960	13	34.9	1996	716	0	.0	.0	18.4	1.9	17.9	.1
Apr	63.3	39.3	51.3	89+	1957	27	57.4	1981	13	1985	10	45.9	1997	413	2	.0	.0	25.5	.2	7.8	.0
May	71.5	47.6	59.6	89+	1953	26	65.6	1991	24	1960	2	53.7	1997	203	34	.0	.0	30.5	.0	1.2	.0
Jun	78.6	55.7	67.2	95+	1952	30	70.2	1971	34+	1972	11	61.7	1972	40	105	.0	.4	30.0	.0	.0	.0
Jul	82.1	60.0	71.1	99	1954	15	74.6	1999	40	1983	12	67.7	1996	5	192	.0	2.0	31.0	.0	.0	.0
Aug	80.9	59.0	70.0	97	1953	31	74.1	1995	39+	1951	26	67.0	1997	14	168	.0	1.2	31.0	.0	.0	.0
Sep	74.8	52.6	63.7	98	1953	4	67.8	1978	28	1956	21	60.5	1982	96	57	.0	.3	29.9	.0	.2	.0
Oct	64.6	41.0	52.8	93	1953	1	60.1	1984	13	1962	27	46.0	1988	386	9	.0	.0	28.9	.0	6.0	.0
Nov	54.1	33.2	43.7	85+	1982	2	51.7	1985	0	1950	26	36.2	1976	641	0	.0	.0	18.8	1.0	15.3	.0
Dec	44.0	25.2	34.6	79	1982	5	43.1	1971	-15	1983	25	22.1	1989	941	0	.0	.0	10.3	5.7	23.7	.4
Ann	62.6	40.8	51.7	99	Jul 1954	15	74.6	Jul 1999	-20	Jan 1985	21	18.1	Jan 1977	5397	567	.0	3.9	270.9	24.0	120.4	3.0

\+ 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/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

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: OAK HILL, WV **COOP ID: 466591**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,991 Feet** **Lat: 37˚58N** **Lon: 81˚09W**

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	3.63	3.56	2.68	1998	28	6.81	1971	1.02	1983
Feb	3.20	3.05	1.52	1962	27	6.26	1972	1.07	1978
Mar	3.99	3.34	2.37	1967	7	9.55	1975	1.78	1988
Apr	3.94	3.59	2.05	1977	5	8.11	1987	.62	1976
May	4.51	4.70	2.03	1989	7	7.88	1989	1.53+	1999
Jun	4.27	4.27	2.90	1949	17	8.23	1995	.87	1988
Jul	5.29	5.00	3.67	2001	9	8.33	1971	1.58	1995
Aug	4.06	4.04	2.75	1979	19	7.25	1977	1.15	1995
Sep	3.52	3.28	4.00	1950	2	7.22	1996	.90	1983
Oct	3.05	2.89	3.90	1954	16	7.94	1976	.73	1991
Nov	3.28	3.12	2.10	1985	5	7.22	1985	.95	2000
Dec	3.47	3.22	2.68	1991	3	6.96	1991	1.54	1980
Ann	46.21	45.98	4.00	Sep 1950	2	9.55	Mar 1975	.62	Apr 1976

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	16.6	9.2	2.1	.3
Feb	13.4	8.2	1.9	.4
Mar	14.6	9.6	2.7	.6
Apr	14.0	9.5	2.5	.6
May	14.3	9.7	3.1	.9
Jun	13.6	9.1	2.8	.8
Jul	13.1	9.0	3.8	1.2
Aug	11.6	7.5	3.0	.9
Sep	11.1	7.0	2.4	.7
Oct	10.9	6.7	2.0	.4
Nov	12.9	8.3	2.0	.4
Dec	15.0	8.8	2.1	.4
Ann	161.1	102.6	30.4	7.6

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	1.27	1.61	2.11	2.53	2.93	3.34	3.80	4.32	4.99	6.03	6.99
Feb	1.43	1.72	2.11	2.43	2.73	3.03	3.35	3.72	4.19	4.89	5.53
Mar	1.51	1.88	2.41	2.86	3.28	3.71	4.18	4.72	5.41	6.47	7.44
Apr	1.28	1.65	2.20	2.67	3.13	3.59	4.11	4.71	5.48	6.68	7.79
May	1.91	2.32	2.89	3.36	3.80	4.25	4.73	5.28	5.98	7.04	8.00
Jun	1.49	1.89	2.48	2.97	3.44	3.93	4.46	5.08	5.87	7.10	8.22
Jul	2.59	3.04	3.65	4.15	4.60	5.06	5.55	6.10	6.79	7.83	8.77
Aug	1.75	2.12	2.63	3.04	3.43	3.83	4.25	4.74	5.35	6.29	7.13
Sep	1.04	1.37	1.87	2.31	2.73	3.17	3.66	4.23	4.97	6.13	7.20
Oct	.83	1.12	1.56	1.95	2.32	2.72	3.16	3.68	4.35	5.41	6.40
Nov	1.19	1.50	1.94	2.31	2.67	3.03	3.43	3.88	4.47	5.37	6.20
Dec	1.50	1.81	2.25	2.61	2.94	3.28	3.64	4.06	4.59	5.39	6.11
Ann	36.65	38.58	41.01	42.82	44.42	45.94	47.50	49.21	51.25	54.19	56.69

\+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: OAK HILL, WV **COOP ID: 466591**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,991 Feet** **Lat: 37°58N** **Lon: 81°09W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	14.1	12.3	2	2
Feb	11.5	12.0	2	1
Mar	7.5	5.0	1	#
Apr	1.1	.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	2.3	.5	#	#
Dec	6.8	4.1	1	1
Ann	43.4	33.9	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	18.0	1998	28	36.2	1977	18	1998	28	7	1977
Feb	11.0	1985	13	20.0	1978	18	1998	7	7	1978
Mar	19.0	1993	14	24.5	1993	24	1993	15	4	1993
Apr	7.0	1987	4	7.0	1987	9	1987	6	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	1.8	1979	10	1.8	1979	2	1979	10	#+	2000
Nov	6.0	1995	15	17.0	1995	7	1995	16	2	1995
Dec	5.5	1974	3	19.9	1976	10	1997	31	4	1989
Ann	19.0	Mar 1993	14	36.2	Jan 1977	24	Mar 1993	15	7+	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	8.0	5.7	2.0	.5	.1
Feb	4.9	3.5	1.3	.5	.1
Mar	2.6	2.0	.6	.3	.1
Apr	.7	.5	.2	.1	.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	@	@	.0	.0	.0
Nov	1.4	.9	.3	@	.0
Dec	4.3	2.9	.6	.2	.0
Ann	21.9	15.5	5.0	1.6	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.9	7.9	4.4	.7
Feb	10.0	6.2	4.1	.3
Mar	3.6	1.7	.7	.2
Apr	.6	.2	@	.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	@	.0	.0	.0
Nov	1.8	.4	.1	.0
Dec	5.9	1.8	.6	.0
Ann	34.8	18.2	9.9	1.2

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: OAK HILL, WV **COOP ID: 466591**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,991 Feet** **Lat: 37˚58N** **Lon: 81˚09W**

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	6/01	5/25	5/21	5/17	5/14	5/10	5/06	5/02	4/26
32	5/18	5/12	5/07	5/03	4/30	4/26	4/22	4/18	4/12
28	4/30	4/24	4/19	4/15	4/11	4/08	4/04	3/30	3/24
24	4/15	4/11	4/07	4/05	4/02	3/30	3/28	3/24	3/20
20	4/08	4/01	3/27	3/22	3/18	3/14	3/10	3/04	2/25
16	3/31	3/22	3/16	3/10	3/05	2/28	2/23	2/17	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	9/19	9/24	9/27	9/30	10/02	10/05	10/07	10/11	10/15
32	9/28	10/03	10/06	10/09	10/12	10/14	10/17	10/20	10/25
28	10/09	10/14	10/19	10/22	10/26	10/29	11/01	11/06	11/11
24	10/19	10/26	10/31	11/04	11/08	11/12	11/16	11/21	11/27
20	10/31	11/07	11/12	11/17	11/21	11/25	11/29	12/04	12/12
16	11/11	11/19	11/24	11/28	12/03	12/07	12/12	12/17	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	162	155	150	145	141	137	132	127	120
32	188	180	174	169	164	159	154	148	140
28	221	213	206	201	196	191	186	180	172
24	244	236	229	224	219	214	209	202	193
20	280	269	261	253	247	240	233	225	213
16	303	292	285	278	272	265	259	251	240

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: OAK HILL, WV **COOP ID: 466591**

Climate Division: WV 4 **NWS Call Sign:** **Elevation: 1,991 Feet** **Lat: 37˚58N** **Lon: 81˚09W**

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	1067	875	716	413	203	40	5	14	96	386	641	941	5397
60	912	735	563	273	106	8	0	1	34	254	494	786	4166
57	819	651	475	199	64	3	0	0	15	187	411	693	3517
55	757	595	418	156	43	1	0	0	8	149	357	634	3118
50	613	462	285	73	12	0	0	0	1	75	235	491	2247
32	191	96	26	0	0	0	0	0	0	0	16	114	443

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	147	144	333	579	854	1055	1210	1177	951	646	365	196	7657
55	0	0	12	45	184	365	497	464	269	82	15	3	1936
57	0	0	7	28	143	307	435	402	216	58	10	0	1606
60	0	0	2	12	92	223	342	310	145	31	3	0	1160
65	0	0	0	2	34	105	192	168	57	9	0	0	567
70	0	0	0	0	9	31	74	66	13	1	0	0	194

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	40	67	173	368	618	824	969	937	724	411	193	70	40	107	280	648	1266	2090	3059	3996	4720	5131	5324	5394
45	18	28	100	247	465	674	814	782	574	277	113	32	18	46	146	393	858	1532	2346	3128	3702	3979	4092	4124
50	3	8	51	152	317	525	659	627	424	160	55	8	3	11	62	214	531	1056	1715	2342	2766	2926	2981	2989
55	0	0	20	80	195	376	504	472	285	79	20	0	0	0	20	100	295	671	1175	1647	1932	2011	2031	2031
60	0	0	4	34	96	236	349	321	164	31	2	0	0	0	4	38	134	370	719	1040	1204	1235	1237	1237
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	27	49	118	233	379	536	652	621	454	253	115	41	27	76	194	427	806	1342	1994	2615	3069	3322	3437	3478

(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.
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