

Climatography of the United States

No. 20

1971-2000

Station: HAMLIN, WV

COOP ID: 463846

Climate Division: WV 3

NWS Call Sign:

Elevation: 680 Feet

Lat: 38° 17N

Lon: 82° 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	43.9	20.6	32.3	80+	1950	26	41.6	1974	-28+	1994	19	19.0	1977	1016	0	.0	.0	9.0	6.8	26.1	2.0
Feb	48.8	22.8	35.8	81	2000	27	42.7	1990	-19	1996	5	23.0	1978	819	0	.0	.0	12.1	4.3	22.7	1.2
Mar	58.8	30.3	44.6	89+	1954	26	52.9	1973	-8	1993	15	38.8	1996	633	0	.0	.0	21.4	.9	19.1	.2
Apr	69.4	38.1	53.8	92	1990	28	59.3	1981	11	1950	7	48.8	1975	343	5	.0	.2	27.5	.0	9.7	.0
May	78.0	48.1	63.1	95	1950	6	70.9	1991	24	1966	10	58.1	1997	141	80	.0	1.0	31.0	.0	1.1	.0
Jun	85.4	57.1	71.3	99+	1988	26	74.9	1994	33+	1966	1	66.4	1972	15	204	.0	5.0	30.0	.0	.0	.0
Jul	89.6	62.3	76.0	103+	1988	16	79.4	1993	40	1988	1	71.7	2000	0	339	.2	10.5	31.0	.0	.0	.0
Aug	88.6	60.7	74.7	101+	1953	31	79.8	1995	40+	1965	29	70.6	1992	5	304	.1	7.8	31.0	.0	.0	.0
Sep	82.3	52.9	67.6	102+	1953	1	71.7	1971	29	1949	25	63.3	1974	52	129	@	2.1	30.0	.0	.2	.0
Oct	71.2	39.1	55.2	95	1953	1	63.1	1984	11	1952	21	48.8	1988	329	24	.0	.0	30.3	.0	9.2	.0
Nov	59.2	31.2	45.2	88	1948	6	54.2	1985	5	1958	30	37.1	1976	594	0	.0	.0	21.3	.2	17.3	.0
Dec	48.5	24.5	36.5	82	1982	4	45.5	1971	-17	1989	23	24.0	1989	884	0	.0	.0	12.9	3.8	23.6	.6
Ann	68.6	40.6	54.7	103+	Jul 1988	16	79.8	Aug 1995	-28+	Jan 1994	19	19.0	Jan 1977	4831	1085	.3	26.6	287.5	16.0	129.0	4.0

+ 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: 1948-2001

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

020-A

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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: HAMLIN, WV

COOP ID: 463846

Climate Division: WV 3

NWS Call Sign:

Elevation: 680 Feet Lat: 38°17N

Lon: 82°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	3.22	2.91	1.85	1974	11	6.85	1978	.83	1981	13.6	7.0	2.1	.5	.95	1.26	1.72	2.12	2.50	2.90	3.34	3.86	4.54	5.59	6.57
Feb	3.16	3.01	2.64	1962	27	7.24	1989	1.03	1977	11.7	6.9	2.2	.5	1.19	1.48	1.90	2.26	2.59	2.93	3.30	3.73	4.28	5.12	5.89
Mar	3.82	3.24	2.52	1997	2	8.63	1997	1.21	1986	13.3	8.7	2.4	.6	1.37	1.73	2.25	2.69	3.10	3.53	3.99	4.53	5.22	6.29	7.26
Apr	3.38	3.24	1.81	1968	5	5.53	1998	.87	1976	12.9	8.0	2.3	.4	1.42	1.72	2.16	2.51	2.84	3.18	3.55	3.96	4.49	5.30	6.03
May	4.52	4.56	3.38	1982	30	9.96	1996	1.15	1977	13.8	9.2	3.2	.9	1.90	2.31	2.88	3.36	3.80	4.25	4.73	5.29	5.99	7.07	8.04
Jun	4.10	4.21	2.76	1993	5	7.57	1998	1.11	1986	12.0	7.9	2.9	.9	1.52	1.90	2.46	2.92	3.35	3.80	4.29	4.85	5.57	6.68	7.69
Jul	4.79	4.79	3.50	1964	27	7.75	2000	1.54	1987	12.1	7.7	3.7	1.3	2.30	2.72	3.28	3.73	4.15	4.57	5.02	5.53	6.17	7.14	8.00
Aug	4.26	4.31	4.09	1978	7	8.55	1978	1.30	1973	10.5	6.8	3.0	1.3	1.91	2.29	2.81	3.24	3.64	4.04	4.47	4.96	5.58	6.52	7.37
Sep	3.21	3.03	3.15	1954	20	6.41	1996	.57	1978	11.0	6.2	2.4	.8	1.02	1.32	1.77	2.16	2.53	2.92	3.35	3.84	4.49	5.49	6.41
Oct	2.91	2.78	1.68	1977	2	5.88	1983	.70	2000	11.0	6.2	1.9	.6	.81	1.09	1.51	1.87	2.23	2.60	3.02	3.50	4.14	5.13	6.05
Nov	3.52	3.16	2.52	1986	9	7.81	1985	1.02	1976	11.9	7.1	2.3	.8	1.28	1.61	2.09	2.49	2.87	3.25	3.68	4.17	4.79	5.76	6.64
Dec	3.51	3.04	2.28	1991	3	8.46	1978	1.15	1989	11.8	7.3	2.2	.5	1.29	1.62	2.09	2.49	2.86	3.25	3.67	4.16	4.78	5.73	6.61
Ann	44.40	44.22	4.09	Aug 1978	7	9.96	May 1996	.57	Sep 1978	145.6	89.0	30.6	9.1	34.93	36.84	39.24	41.03	42.60	44.11	45.66	47.35	49.38	52.29	54.78

+ 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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Climate Division: WV 3

NWS Call Sign:

Elevation: 680 Feet

Lat: 38°17N

Lon: 82°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	7.7	5.8	1	#	10.5	1978	20	29.9	1978	19	1978	20	7	1978	5.5	2.8	.7	.4	@	8.1	4.2	2.7	.6
Feb	6.8	4.9	1	#	9.0	1985	13	28.0	1979	13	1985	3	6	1985	3.9	2.1	.8	.4	.0	6.0	3.5	1.9	.4
Mar	3.4	1.9	#	#	9.0	1993	14	16.0	1993	16	1993	14	2	1993	2.1	1.2	.4	.2	.0	2.0	.8	.4	.1
Apr	.7	.0	#	0	12.0	1987	4	18.8	1987	13	1987	5	1	1987	.4	.1	.1	.1	@	.2	.1	.1	.1
May	#	.0	0	0	#	1989	8	#	1989	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	#	0	.3	1972	19	.3	1972	#+	1974	20	#+	1974	@	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	#	0	5.0	1995	29	6.5	1995	3	1995	29	#+	1996	.6	.3	@	@	.0	.3	@	.0	.0
Dec	3.4	2.5	#	#	5.0	1981	17	10.7	1989	6	1993	29	1	1995	2.7	1.5	.2	@	.0	2.8	.8	.1	.0
Ann	22.6	15.1	N/A	N/A	12.0	Apr 1987	4	29.9	Jan 1978	19	Jan 1978	20	7	Jan 1978	15.2	8.0	2.2	1.1	@	19.4	9.4	5.2	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

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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	5/26	5/20	5/16	5/13	5/10	5/07	5/03	4/29	4/24
32	5/14	5/10	5/07	5/05	5/02	4/30	4/27	4/25	4/21
28	5/02	4/28	4/24	4/22	4/19	4/16	4/13	4/10	4/05
24	4/19	4/15	4/12	4/09	4/07	4/04	4/01	3/29	3/25
20	4/08	4/03	3/30	3/27	3/23	3/20	3/17	3/13	3/08
16	3/25	3/18	3/13	3/09	3/05	3/01	2/25	2/20	2/13
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	9/21	9/25	9/28	9/30	10/02	10/04	10/07	10/10	10/13
32	9/29	10/03	10/06	10/08	10/11	10/13	10/16	10/19	10/23
28	10/06	10/12	10/16	10/20	10/23	10/26	10/30	11/03	11/09
24	10/14	10/20	10/25	10/28	11/01	11/04	11/08	11/13	11/19
20	10/26	11/01	11/05	11/09	11/12	11/16	11/19	11/24	11/30
16	11/13	11/19	11/23	11/27	12/01	12/04	12/08	12/13	12/19
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	156	152	148	145	141	137	133	127
32	176	171	167	164	161	158	154	151	145
28	207	200	195	191	187	182	178	173	166
24	230	222	217	212	208	203	198	193	185
20	258	249	243	238	233	228	223	217	209
16	292	284	279	274	270	265	261	255	248

* 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	1016	819	633	343	141	15	0	5	52	329	594	884	4831
60	861	679	481	211	67	3	0	0	16	213	448	729	3708
57	768	595	395	145	37	1	0	0	7	156	366	644	3114
55	708	543	339	108	24	0	0	0	4	123	313	586	2748
50	566	414	216	42	6	0	0	0	1	61	197	445	1948
32	164	85	13	0	0	0	0	0	0	0	9	102	373

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	171	190	403	652	962	1179	1362	1322	1067	718	404	241	8671
55	3	4	16	71	273	489	649	609	381	128	18	12	2653
57	0	0	10	47	225	429	587	547	324	99	12	8	2288
60	0	0	3	23	161	341	494	454	243	63	4	0	1786
65	0	0	0	5	80	204	339	304	129	24	0	0	1085
70	0	0	0	0	30	96	194	170	52	7	0	0	549

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	46	80	205	406	695	915	1080	1034	790	448	204	84	46	126	331	737	1432	2347	3427	4461	5251	5699	5903	5987
45	21	35	118	276	540	765	925	879	640	308	117	42	21	56	174	450	990	1755	2680	3559	4199	4507	4624	4666
50	4	12	62	172	392	615	770	724	491	185	59	17	4	16	78	250	642	1257	2027	2751	3242	3427	3486	3503
55	0	0	30	93	257	466	615	569	348	97	22	2	0	0	30	123	380	846	1461	2030	2378	2475	2497	2499
60	0	0	6	45	146	322	460	414	218	42	4	0	0	0	6	51	197	519	979	1393	1611	1653	1657	1657
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	43	71	158	288	452	609	730	694	514	316	153	68	43	114	272	560	1012	1621	2351	3045	3559	3875	4028	4096

(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