

Climatology of the United States

No. 20

1971-2000

Station: CLARKSBURG 1, WV

COOP ID: 461677

Climate Division: WV 2

NWS Call Sign:

Elevation: 990 Feet

Lat: 39°16N

Lon: 80°21W

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	38.5	20.8	29.7	78	1973	1	38.3	1974	-24+	1994	19	15.8	1977	1095	0	.0	.0	6.7	9.3	26.1	1.9
Feb	42.2	22.2	32.2	77+	1932	12	39.6	1976	-23	1934	28	20.5	1978	918	0	.0	.0	8.8	6.4	22.8	1.2
Mar	52.3	29.2	40.8	88	1929	26	49.4	1973	-18	1934	1	34.7	1996	752	0	.0	.0	18.4	1.7	20.5	.2
Apr	63.4	37.5	50.5	93+	1957	25	54.6	1985	15	1964	1	45.4	1997	438	1	.0	.1	26.0	.0	9.4	.0
May	73.0	47.4	60.2	96	1939	27	68.5	1991	23+	1947	10	55.0	1997	196	46	.0	.2	30.8	.0	1.2	.0
Jun	81.2	56.6	68.9	99	1933	10	72.0	1994	33	1945	6	63.2	1972	29	146	.0	2.5	30.0	.0	.0	.0
Jul	84.6	61.6	73.1	102+	1930	21	76.8	1999	41	1963	9	69.7	1976	2	253	.1	5.5	31.0	.0	.0	.0
Aug	83.1	60.5	71.8	101+	1930	4	76.4	1995	39	1965	29	67.9	1976	10	221	@	3.7	31.0	.0	.0	.0
Sep	76.4	53.4	64.9	102+	1953	3	68.9	1980	29	1942	29	61.2	1976	69	66	.0	.7	30.0	.0	.1	.0
Oct	65.4	40.6	53.0	94+	1927	2	60.0	1984	14	1930	22	46.3	1988	382	9	.0	.0	29.0	.0	6.1	.0
Nov	53.6	32.3	43.0	85	1948	6	51.1	1985	-2	1930	29	35.4	1976	662	0	.0	.0	18.2	.5	16.6	.0
Dec	43.0	25.4	34.2	78	1951	8	41.8	1984	-13	1942	21	20.9	1989	955	0	.0	.0	9.5	5.5	23.3	.4
Ann	63.1	40.6	51.9	102+	Sep 1953	3	76.8	Jul 1999	-24+	Jan 1994	19	15.8	Jan 1977	5508	742	.1	12.7	269.4	23.4	126.1	3.7

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1926-2001

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

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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: CLARKSBURG 1, WV

COOP ID: 461677

Climate Division: WV 2

NWS Call Sign:

Elevation: 990 Feet Lat: 39°16N

Lon: 80°21W

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	3.49	3.41	2.11	1974	11	7.00	1994	.92	1981	16.1	8.4	2.0	.6	1.12	1.45	1.94	2.36	2.76	3.17	3.63	4.17	4.85	5.92	6.91
Feb	3.08	2.67	2.80	1994	9	6.11	1994	.78	1978	13.7	7.7	1.7	.3	1.06	1.35	1.78	2.14	2.48	2.83	3.22	3.66	4.24	5.13	5.95
Mar	4.08	4.05	2.85	1963	4	8.89	1994	1.52	1978	14.7	9.0	2.9	.9	1.70	2.07	2.59	3.02	3.42	3.83	4.27	4.78	5.42	6.40	7.29
Apr	3.48	3.45	2.10	1948	12	6.00	1973	1.19	1971	14.7	8.7	2.1	.4	1.59	1.90	2.32	2.67	2.99	3.31	3.65	4.05	4.55	5.30	5.97
May	4.53	4.37	2.88	1996	17	11.26	1996	1.57	1977	14.1	9.2	2.9	.9	1.59	2.01	2.63	3.16	3.66	4.17	4.73	5.38	6.22	7.51	8.70
Jun	4.28	3.85	3.00	1981	6	10.47	1998	1.29	1973	12.8	8.8	3.0	.8	1.42	1.82	2.42	2.93	3.41	3.92	4.47	5.11	5.94	7.22	8.40
Jul	4.26	4.17	2.47+	1936	5	9.85	1996	1.11	1987	12.8	8.2	3.0	.9	1.66	2.06	2.62	3.09	3.53	3.98	4.46	5.02	5.74	6.83	7.83
Aug	4.39	3.95	4.42	1935	3	9.27	1975	1.83	1981	11.5	7.8	3.0	.9	1.95	2.34	2.88	3.32	3.74	4.15	4.60	5.11	5.75	6.73	7.62
Sep	3.30	3.01	3.31	1971	13	6.92	1971	.67	1985	10.9	6.6	2.2	.7	.93	1.25	1.72	2.13	2.54	2.96	3.42	3.97	4.68	5.80	6.84
Oct	3.00	3.12	3.07	1954	16	7.50	1976	.67	1994	11.0	6.7	1.8	.6	.90	1.19	1.61	1.98	2.34	2.71	3.12	3.60	4.22	5.19	6.09
Nov	3.72	3.69	5.00	1985	5	11.20	1985	.72	1976	13.7	8.0	2.4	.5	1.16	1.52	2.04	2.49	2.92	3.38	3.87	4.45	5.20	6.37	7.45
Dec	3.41	2.95	2.83	1978	9	9.25	1978	1.44	1989	15.4	7.7	2.0	.7	1.26	1.58	2.04	2.42	2.79	3.16	3.56	4.03	4.63	5.55	6.39
Ann	45.02	43.22	5.00	Nov 1985	5	11.26	May 1996	.67+	Oct 1994	161.4	96.8	29.0	8.2	34.47	36.57	39.23	41.22	42.98	44.67	46.40	48.30	50.58	53.88	56.70

+ 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: 1926-2001

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

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COOP ID: 461677

Climate Division: WV 2

NWS Call Sign:

Elevation: 990 Feet

Lat: 39°16N

Lon: 80°21W

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	11.2	10.5	2	2	9.0	1994	5	26.5	1996	18+	1996	10	8	1978	6.4	4.5	1.4	.6	.0	10.1	4.7	3.1	.7
Feb	7.6	5.0	2	1	8.5	1983	12	25.0	1979	18	1979	13	10	1979	4.0	2.7	.9	.3	.0	7.9	4.5	2.8	.9
Mar	3.7	1.8	#	#	14.0	1993	14	19.0	1993	18	1993	15	3	1993	1.7	1.3	.4	.2	@	2.6	1.2	.5	.1
Apr	.3	.0	#	0	5.0	1987	4	5.0	1987	5	1987	4	#+	1996	.2	.1	@	@	.0	.1	@	@	.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	0	#	1980	26	#	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.8	.0	#	#	4.0	1987	11	7.1	1995	4	1987	11	1	1995	.5	.3	.1	.0	.0	.5	.1	.0	.0
Dec	3.6	3.0	#	#	3.0	1973	21	11.4	1989	7	1993	29	2	1989	2.8	1.9	.2	.0	.0	3.8	.7	.1	.0
Ann	27.2	20.3	N/A	N/A	14.0	Mar 1993	14	26.5	Jan 1996	18+	Jan 1996	10	10	Feb 1979	15.6	10.8	3.0	1.1	@	25.0	11.2	6.5	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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No. 20 1971-2000

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COOP ID: 461677

Climate Division: **WV 2**

NWS Call Sign:

Elevation: **990 Feet**

Lat: **39° 16N**

Lon: **80° 21W**

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	5/28	5/22	5/18	5/14	5/11	5/08	5/04	4/30	4/24
32	5/14	5/09	5/06	5/03	4/30	4/27	4/25	4/21	4/17
28	4/24	4/21	4/18	4/16	4/13	4/11	4/09	4/06	4/02
24	4/16	4/11	4/08	4/05	4/02	3/31	3/28	3/24	3/20
20	4/08	3/31	3/26	3/21	3/17	3/13	3/09	3/03	2/24
16	3/21	3/15	3/11	3/07	3/03	2/28	2/24	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	9/26	9/29	10/01	10/03	10/05	10/07	10/09	10/11	10/15
32	10/04	10/08	10/11	10/14	10/16	10/19	10/21	10/24	10/29
28	10/15	10/21	10/24	10/28	10/31	11/03	11/06	11/10	11/15
24	10/23	10/28	11/02	11/05	11/08	11/12	11/15	11/19	11/25
20	11/07	11/13	11/17	11/21	11/24	11/28	12/02	12/06	12/12
16	11/19	11/26	12/01	12/05	12/09	12/13	12/17	12/22	12/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	166	159	154	150	146	143	139	134	127
32	186	180	176	172	168	165	161	157	151
28	220	213	208	204	200	196	191	186	179
24	242	234	229	224	219	215	210	205	197
20	278	269	262	257	251	246	240	234	225
16	304	296	290	285	280	275	270	264	255

* 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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Lat: 39°16N

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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	1095	918	752	438	196	29	2	10	69	382	662	955	5508
60	940	778	597	294	104	6	0	0	20	251	513	800	4303
57	847	694	508	216	64	2	0	0	7	185	427	707	3657
55	785	638	450	169	43	1	0	0	4	147	372	648	3257
50	641	506	312	78	13	0	0	0	0	74	244	505	2373
32	208	130	33	0	0	0	0	0	0	0	14	123	508

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	136	304	553	873	1107	1274	1234	988	650	342	191	7788
55	0	0	8	32	203	418	561	521	301	84	10	3	2141
57	0	0	3	19	162	359	499	459	245	59	5	0	1810
60	0	0	0	7	109	273	406	366	167	32	1	0	1361
65	0	0	0	1	46	146	253	221	66	9	0	0	742
70	0	0	0	0	14	56	119	105	15	1	0	0	310

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	37	55	152	349	642	876	1033	993	755	415	173	62	37	92	244	593	1235	2111	3144	4137	4892	5307	5480	5542
45	14	22	87	228	488	726	878	838	605	277	96	31	14	36	123	351	839	1565	2443	3281	3886	4163	4259	4290
50	2	5	40	132	338	576	723	683	456	159	46	10	2	7	47	179	517	1093	1816	2499	2955	3114	3160	3170
55	0	0	16	68	211	427	568	529	314	76	14	1	0	0	16	84	295	722	1290	1819	2133	2209	2223	2224
60	0	0	5	28	112	283	413	374	188	27	2	0	0	0	5	33	145	428	841	1215	1403	1430	1432	1432
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	30	41	118	233	405	576	700	669	479	263	115	40	30	71	189	422	827	1403	2103	2772	3251	3514	3629	3669

(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