

Climatography of the United States

No. 20

1971-2000

Station: PARSONS 1 NE, WV

COOP ID: 466867

Climate Division: WV 4

NWS Call Sign:

Elevation: 1,826 Feet Lat: 39°06N

Lon: 79°40W

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	17.3	27.8	78	1950	25	38.5	1974	-20	1985	21	14.5	1977	1155	0	.0	.0	6.1	10.3	27.3	3.1
Feb	41.7	18.6	30.2	76	2000	27	37.5	1990	-17	1963	27	16.9	1978	977	0	.0	.0	7.9	7.4	24.1	2.1
Mar	51.1	26.2	38.7	85	1998	31	46.8	1973	-7	1980	3	32.4	1999	816	0	.0	.0	16.7	2.8	21.8	.3
Apr	61.7	34.2	48.0	89+	1957	28	52.7	1981	11	1985	10	42.5	1975	512	0	.0	.0	24.6	.2	11.9	.0
May	71.2	44.9	58.1	91+	1949	6	65.3	1991	23	1970	7	53.1	1994	242	27	.0	.1	30.4	.0	1.6	.0
Jun	78.4	53.9	66.2	93+	1949	24	69.5	1994	30+	1972	11	61.2	1972	55	90	.0	.5	30.0	.0	.1	.0
Jul	81.8	59.1	70.5	101	1988	17	73.4	1999	36	1988	1	66.9	1976	7	175	@	1.6	31.0	.0	.0	.0
Aug	80.5	57.4	69.0	97	1955	3	73.6	1995	38	1982	29	65.3	1976	19	143	.0	1.5	31.0	.0	.0	.0
Sep	74.3	50.2	62.3	93	1964	9	65.8	1980	30	1967	25	58.5	1976	112	30	.0	.3	30.0	.0	.2	.0
Oct	63.8	36.9	50.4	89	1951	3	57.5	1984	12	1962	27	44.2	1988	459	4	.0	.0	28.0	.0	9.3	.0
Nov	52.3	28.7	40.5	80	1961	3	48.0	1985	-1	1956	24	31.4	1976	736	0	.0	.0	17.5	1.8	19.4	.0
Dec	42.3	21.7	32.0	75	1966	10	40.2	1984	-17	1989	22	19.1	1989	1023	0	.0	.0	8.5	6.8	25.5	1.0
Ann	61.4	37.4	49.5	101	Jul 1988	17	73.6	Aug 1995	-20	Jan 1985	21	14.5	Jan 1977	6113	469	@	4.0	261.7	29.3	141.2	6.5

+ 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

040-A

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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

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COOP ID: 466867

Climate Division: WV 4

NWS Call Sign:

Elevation: 1,826 Feet Lat: 39°06N

Lon: 79°40W

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	3.82	4.03	1.72	1996	19	6.40	1979	1.16	1981	18.0	9.5	2.2	.5	1.39	1.75	2.27	2.70	3.11	3.54	4.00	4.53	5.21	6.26	7.22
Feb	3.48	3.38	3.69	1994	9	7.71	1994	.92	1978	14.9	8.6	1.8	.4	1.32	1.64	2.10	2.49	2.86	3.23	3.64	4.11	4.71	5.64	6.48
Mar	4.12	4.07	2.58	1967	6	7.43	1997	1.68	1987	15.2	9.6	2.8	.5	1.87	2.24	2.74	3.15	3.53	3.91	4.32	4.79	5.38	6.27	7.07
Apr	4.26	3.98	1.94	1983	24	7.90	1973	1.31	1971	14.9	10.0	2.8	.6	1.86	2.24	2.77	3.21	3.61	4.02	4.46	4.97	5.61	6.58	7.45
May	5.26	5.33	3.44	1968	24	10.87	1996	2.03	1977	14.7	10.1	3.7	1.3	2.29	2.76	3.42	3.96	4.46	4.97	5.52	6.14	6.93	8.13	9.22
Jun	5.30	5.04	3.03	1956	1	11.65	1998	1.63	1999	13.7	9.7	4.0	1.1	1.97	2.47	3.18	3.77	4.34	4.91	5.54	6.27	7.20	8.63	9.93
Jul	5.46	4.79	2.75	1958	21	11.53	1996	1.30	1987	14.4	10.2	3.9	1.5	2.12	2.63	3.35	3.95	4.51	5.09	5.71	6.44	7.35	8.76	10.04
Aug	4.92	4.63	4.10	1982	9	8.53	1975	2.11	1981	12.6	8.5	3.5	1.1	2.31	2.74	3.33	3.80	4.24	4.68	5.16	5.70	6.37	7.39	8.31
Sep	4.15	4.13	2.95	1996	7	7.07	1993	.60	1985	12.6	7.5	2.9	.9	1.52	1.91	2.47	2.94	3.39	3.84	4.34	4.91	5.65	6.78	7.82
Oct	3.44	2.98	3.23	1959	24	8.19	1976	.74	1994	12.1	7.2	2.2	.6	1.03	1.36	1.85	2.27	2.68	3.11	3.58	4.13	4.84	5.96	6.99
Nov	3.81	3.83	5.20	1985	5	11.87	1985	1.34	1998	14.0	8.4	2.5	.6	1.38	1.74	2.25	2.69	3.10	3.52	3.98	4.52	5.20	6.26	7.23
Dec	3.86	3.34	2.70	1972	9	8.13	1972	2.10	1989	17.4	9.5	2.3	.4	1.67	2.01	2.50	2.90	3.27	3.65	4.05	4.52	5.10	5.99	6.80
Ann	51.88	50.82	5.20	Nov 1985	5	11.87	Nov 1985	.60	Sep 1985	174.5	108.8	34.6	9.5	39.36	41.84	44.99	47.36	49.45	51.46	53.52	55.78	58.51	62.44	65.81

+ 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 4

NWS Call Sign:

Elevation: 1,826 Feet

Lat: 39°06N

Lon: 79°40W

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	16.2	15.6	3	2	19.0	1996	8	39.2	1996	24	1996	9	11	1977	7.1	5.4	2.2	.8	.1	14.5	8.6	5.8	1.8
Feb	12.2	11.6	3	1	13.0	1983	12	30.5	1983	22	1983	12	13	1978	5.8	4.3	1.6	.5	@	11.5	7.3	3.9	.7
Mar	9.6	8.0	1	1	10.5	1999	10	40.2	1999	16	1993	14	6	1978	4.1	2.9	1.2	.6	.1	6.0	3.0	1.5	.3
Apr	1.9	.6	#	#	6.5	1987	4	10.0	1973	8	1987	5	1	1987	1.1	.8	.2	.1	.0	1.2	.3	.2	.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	.1	.0	#	0	2.0	1979	10	2.0	1979	2	1979	10	#+	1993	.1	@	.0	.0	.0	.1	.0	.0	.0
Nov	3.9	2.1	#	#	10.0	1995	15	26.0	1995	15	1995	17	3	1995	2.1	1.5	.3	.1	@	3.0	1.1	.4	.1
Dec	8.4	6.3	1	1	7.0	1992	3	21.6	1992	10+	1997	31	4	1992	5.2	3.7	.9	.2	.0	8.6	3.8	1.8	.1
Ann	52.3	44.2	N/A	N/A	19.0	Jan 1996	8	40.2	Mar 1999	24	Jan 1996	9	13	Feb 1978	25.5	18.6	6.4	2.3	.2	44.9	24.1	13.6	3.0

+ 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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Lon: 79°40W

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	6/06	5/30	5/26	5/22	5/18	5/15	5/11	5/06	4/30
32	5/23	5/18	5/14	5/11	5/08	5/05	5/02	4/28	4/23
28	5/10	5/05	5/02	4/29	4/26	4/23	4/20	4/17	4/12
24	4/23	4/18	4/16	4/13	4/11	4/08	4/06	4/03	3/30
20	4/13	4/08	4/04	4/01	3/29	3/26	3/23	3/19	3/14
16	4/05	3/30	3/25	3/21	3/18	3/14	3/10	3/06	2/28
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	9/24	9/27	9/29	10/01	10/03	10/05	10/08	10/12
32	9/29	10/03	10/06	10/08	10/11	10/13	10/16	10/19	10/23
28	10/05	10/11	10/14	10/18	10/21	10/24	10/27	10/31	11/06
24	10/17	10/22	10/26	10/30	11/02	11/05	11/08	11/12	11/18
20	10/26	11/01	11/05	11/09	11/13	11/16	11/20	11/24	11/30
16	11/10	11/16	11/21	11/24	11/28	12/01	12/05	12/10	12/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	148	143	139	135	131	127	122	116
32	173	167	162	159	155	152	148	143	137
28	193	188	184	180	177	174	171	167	161
24	222	216	212	208	204	201	197	193	186
20	254	245	239	233	228	223	217	210	201
16	280	271	265	259	254	249	244	237	229

* 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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Elevation: 1,826 Feet Lat: 39°06N Lon: 79°40W

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	1155	977	816	512	242	55	7	19	112	459	736	1023	6113
60	1000	837	661	364	135	14	0	2	38	319	586	868	4824
57	907	753	568	279	87	5	0	0	17	244	498	775	4133
55	845	697	510	227	61	2	0	0	9	201	441	713	3706
50	700	564	367	117	20	0	0	0	1	112	307	568	2756
32	251	168	48	0	0	0	0	0	0	2	28	156	653

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	119	115	255	479	808	1025	1191	1147	909	570	282	156	7056
55	0	0	4	16	156	337	478	434	227	55	5	0	1712
57	0	0	0	8	119	280	416	372	175	37	3	0	1410
60	0	0	0	2	75	199	323	280	107	19	0	0	1005
65	0	0	0	0	27	90	175	143	30	4	0	0	469
70	0	0	0	0	7	24	64	51	3	0	0	0	149

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	31	45	133	300	577	804	954	919	696	364	147	52	31	76	209	509	1086	1890	2844	3763	4459	4823	4970	5022
45	9	17	74	189	427	654	799	764	547	232	77	25	9	26	100	289	716	1370	2169	2933	3480	3712	3789	3814
50	1	2	32	103	288	505	644	609	399	132	36	8	1	3	35	138	426	931	1575	2184	2583	2715	2751	2759
55	0	0	10	55	172	355	489	455	260	59	11	0	0	0	10	65	237	592	1081	1536	1796	1855	1866	1866
60	0	0	1	18	83	220	336	301	144	16	0	0	0	0	1	19	102	322	658	959	1103	1119	1119	1119
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	25	38	102	209	360	517	638	607	433	240	102	38	25	63	165	374	734	1251	1889	2496	2929	3169	3271	3309

(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