

Climatology of the United States

No. 20

1971-2000

Station: WESTON, WV

COOP ID: 469436

Climate Division: WV 2

NWS Call Sign:

Elevation: 925 Feet Lat: 39°02N Lon: 80°28W

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	42.3	20.0	31.2	80	1950	26	41.0	1974	-24	1985	21	17.7	1977	1049	0	.0	.0	8.2	8.7	26.7	2.1
Feb	46.4	21.2	33.8	80	2000	27	40.8	1976	-11	1979	10	20.6	1978	873	0	.0	.0	10.0	5.6	23.6	1.6
Mar	56.5	28.4	42.5	88	1998	31	51.3	1973	-6+	1980	3	36.8	1996	699	0	.0	.0	19.7	1.4	21.2	.3
Apr	67.2	36.4	51.8	92	1986	29	56.5	1981	14	1950	7	47.0	1975	397	2	.0	.2	26.8	@	10.6	.0
May	76.5	46.0	61.3	95+	1991	26	66.4	1991	18+	1974	7	56.5	1997	168	52	.0	1.0	30.9	.0	1.9	.0
Jun	83.9	55.3	69.6	98+	1988	23	73.2	1994	33	1977	8	63.9	1972	24	162	.0	5.0	30.0	.0	.0	.0
Jul	87.4	60.3	73.9	104	1988	17	77.8	1999	39+	1988	1	70.7	1976	1	275	.2	8.3	31.0	.0	.0	.0
Aug	86.1	59.1	72.6	100+	1948	28	78.1	1995	35	1965	29	69.4	1976	10	245	@	6.1	31.0	.0	.0	.0
Sep	79.7	52.1	65.9	103	1953	4	69.8	1978	30+	1987	27	62.5	1976	62	89	.0	1.5	30.0	.0	.2	.0
Oct	68.8	39.7	54.3	94	1953	1	61.1	1971	17+	1962	27	47.6	1988	347	13	.0	.0	29.4	.0	7.2	.0
Nov	56.9	31.2	44.1	84+	1948	6	53.3	1985	4	1958	30	36.3	1976	629	0	.0	.0	19.6	.4	17.9	.0
Dec	46.5	24.5	35.5	79	1951	8	44.1	1984	-14+	1989	22	21.3	1989	914	0	.0	.0	11.3	4.5	24.0	.5
Ann	66.5	39.5	53.0	104	Jul 1988	17	78.1	Aug 1995	-24	Jan 1985	21	17.7	Jan 1977	5173	838	.2	22.1	277.9	20.6	133.3	4.5

+ 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

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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: WESTON, WV

COOP ID: 469436

Climate Division: WV 2

NWS Call Sign:

Elevation: 925 Feet Lat: 39°02N

Lon: 80°28W

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	4.08	3.76	1.96	1974	11	8.10	1978	1.59	1981	15.2	10.3	2.5	.6	1.63	2.01	2.54	2.98	3.40	3.82	4.27	4.80	5.47	6.49	7.42
Feb	3.54	3.54	3.45	1994	9	7.50	1994	.67	1985	11.7	8.6	2.2	.4	1.19	1.53	2.02	2.44	2.84	3.25	3.70	4.22	4.90	5.95	6.91
Mar	4.63	4.22	2.80	1963	20	9.14	1994	1.65	1987	12.4	10.2	3.6	.7	1.90	2.32	2.92	3.41	3.87	4.34	4.85	5.43	6.17	7.30	8.32
Apr	3.93	3.82	2.70	1989	26	7.35	1972	1.55	1971	12.8	9.8	2.5	.4	1.89	2.22	2.69	3.06	3.41	3.75	4.12	4.55	5.07	5.87	6.58
May	4.96	5.09	3.44	1980	21	13.08	1996	.81	1991	12.0	9.9	3.5	1.0	1.60	2.07	2.76	3.36	3.93	4.52	5.17	5.92	6.90	8.42	9.82
Jun	5.04	4.57	4.62	1950	25	12.34	1998	.73	1988	11.2	9.3	3.6	1.2	1.43	1.91	2.63	3.26	3.88	4.52	5.23	6.07	7.15	8.85	10.44
Jul	5.25	5.03	4.70	1951	24	9.27	1996	2.94	1987	11.1	9.2	3.8	1.4	2.78	3.21	3.78	4.24	4.65	5.07	5.50	6.00	6.62	7.54	8.35
Aug	4.62	4.65	3.60	1949	16	8.09	1994	1.49	1993	10.1	8.0	3.3	1.1	1.92	2.34	2.94	3.42	3.88	4.34	4.84	5.42	6.14	7.25	8.26
Sep	3.89	3.62	2.57	1980	5	7.59	1971	.65	1985	9.1	7.0	2.8	1.0	1.41	1.77	2.30	2.74	3.17	3.60	4.07	4.62	5.32	6.39	7.38
Oct	3.22	3.43	3.13	1954	16	7.63	1976	.83	1994	9.6	7.5	2.3	.5	1.02	1.32	1.78	2.16	2.54	2.93	3.35	3.85	4.50	5.50	6.42
Nov	3.97	3.84	2.50	1950	25	10.36	1985	1.36	1998	11.3	8.9	2.4	.7	1.64	2.00	2.51	2.93	3.33	3.73	4.16	4.66	5.29	6.26	7.14
Dec	3.94	3.45	2.60	1948	16	8.60	1978	2.06	1995	13.0	9.1	2.6	.5	1.73	2.09	2.58	2.98	3.35	3.73	4.13	4.59	5.17	6.06	6.86
Ann	51.07	50.50	4.70	Jul 1951	24	13.08	May 1996	.65	Sep 1985	139.5	107.8	35.1	9.5	39.54	41.85	44.76	46.95	48.88	50.72	52.61	54.69	57.18	60.77	63.84

+ 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:
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Station: WESTON, WV

COOP ID: 469436

Climate Division: WV 2

NWS Call Sign:

Elevation: 925 Feet

Lat: 39°02N

Lon: 80°28W

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	15.9	14.1	2	1	12.0	1971	1	43.4	1978	19	1978	21	9	1978	7.5	5.1	1.8	.5	.2	10.8	5.9	3.8	1.8
Feb	10.9	11.0	1	1	14.0	1983	12	27.0	1979	14+	1983	12	10	1979	4.7	3.6	1.3	.3	.1	8.0	4.1	2.2	.9
Mar	7.0	6.0	1	#	15.0	1993	14	27.5	1971	20	1993	14	4	1993	3.3	2.3	.8	.3	.1	3.1	1.3	.7	.2
Apr	1.2	.0	#	#	4.0	1977	6	6.5	1973	12	1987	5	1	1987	.7	.5	.1	.0	.0	.4	@	.0	.0
May	#	.0	#	0	#	1973	18	#	1973	#	1988	16	#	1988	.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	1972	19	2.0	1972	1	1972	19	#	1972	@	@	.0	.0	.0	@	.0	.0	.0
Nov	2.3	.3	#	#	7.0	1971	25	11.3	1976	3	1995	29	1	1995	1.4	1.1	.2	@	.0	1.1	.1	.0	.0
Dec	6.6	6.0	#	#	4.5	1974	2	18.5	1976	6	1993	30	1+	2000	4.3	3.2	.8	.0	.0	5.3	1.0	.2	.0
Ann	44.0	37.4	N/A	N/A	15.0	Mar 1993	14	43.4	Jan 1978	20	Mar 1993	14	10	Feb 1979	21.9	15.8	5.0	1.1	.4	28.7	12.4	6.9	2.9

+ 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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Lat: 39°02N

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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	5/31	5/25	5/21	5/18	5/15	5/11	5/08	5/04	4/28
32	5/16	5/11	5/08	5/05	5/02	4/29	4/26	4/23	4/18
28	5/02	4/28	4/24	4/21	4/19	4/16	4/14	4/10	4/06
24	4/24	4/18	4/14	4/10	4/07	4/04	3/31	3/27	3/22
20	4/16	4/09	4/04	3/31	3/27	3/23	3/19	3/14	3/07
16	3/27	3/21	3/16	3/13	3/09	3/05	3/02	2/25	2/19
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	9/22	9/26	9/29	10/02	10/04	10/06	10/09	10/12	10/16
32	9/28	10/03	10/07	10/10	10/13	10/16	10/19	10/23	10/28
28	10/10	10/16	10/20	10/24	10/27	10/31	11/03	11/08	11/14
24	10/17	10/23	10/28	10/31	11/04	11/07	11/11	11/15	11/21
20	10/29	11/05	11/10	11/14	11/17	11/21	11/25	11/30	12/06
16	11/15	11/22	11/27	12/01	12/05	12/08	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	163	156	150	146	142	138	133	128	120
32	183	176	172	167	163	159	155	150	143
28	216	207	201	196	191	186	180	174	166
24	239	229	222	216	210	204	198	191	181
20	264	254	246	240	235	229	223	215	205
16	297	288	281	275	270	264	259	252	243

* 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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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	1049	873	699	397	168	24	1	10	62	347	629	914	5173
60	894	733	545	258	82	5	0	0	18	221	482	759	3997
57	801	649	457	184	47	1	0	0	7	160	400	671	3377
55	740	593	400	142	30	0	0	0	3	126	346	614	2994
50	597	463	268	62	8	0	0	0	0	61	227	471	2157
32	181	105	22	0	0	0	0	0	0	0	15	113	436

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	155	155	346	595	907	1128	1298	1259	1017	689	377	223	8149
55	1	0	11	47	225	439	585	546	330	102	17	10	2313
57	0	0	6	29	179	380	523	484	273	74	11	5	1964
60	0	0	1	13	122	293	430	391	195	43	4	0	1492
65	0	0	0	2	52	162	275	245	89	13	0	0	838
70	0	0	0	0	16	67	136	125	27	2	0	0	373

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	41	61	169	355	646	871	1033	995	765	435	181	75	41	102	271	626	1272	2143	3176	4171	4936	5371	5552	5627
45	18	24	93	232	492	721	878	840	615	296	105	34	18	42	135	367	859	1580	2458	3298	3913	4209	4314	4348
50	4	7	44	138	341	571	723	685	466	179	51	14	4	11	55	193	534	1105	1828	2513	2979	3158	3209	3223
55	1	1	20	75	216	423	568	530	322	90	17	1	1	2	22	97	313	736	1304	1834	2156	2246	2263	2264
60	0	0	4	31	115	284	414	376	193	38	4	0	0	0	4	35	150	434	848	1224	1417	1455	1459	1459
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	31	52	134	253	416	573	693	664	492	293	133	50	31	83	217	470	886	1459	2152	2816	3308	3601	3734	3784

(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.

- 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/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