

Climatology of the United States

No. 20

1971-2000

Station: WAYNE 2, WV

COOP ID: 469323

Climate Division: WV 3

NWS Call Sign:

Elevation: 600 Feet

Lat: 38° 14N

Lon: 82° 27W

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	.0	.0	.0	77+	1985	2	.0	0	-23+	1994	19	.0	0	0	0	.0	.0	9.0	6.6	26.5	1.6
Feb	.0	.0	.0	78+	1972	29	.0	0	-19+	1996	5	.0	0	0	0	.0	.0	12.0	3.9	23.6	.6
Mar	.0	.0	.0	89+	1989	29	.0	0	5	1978	6	.0	0	0	0	.0	.0	22.1	.7	18.0	.1
Apr	.0	.0	.0	95	1985	23	.0+	0	13	1983	19	.0	0	0	0	.0	.8	28.2	@	8.7	.0
May	.0	.0	.0	94+	1985	15	.0	0	25	1966	10	.0	0	0	0	.0	2.0	31.0	.0	1.0	.0
Jun	.0	.0	.0	100+	1988	22	.0	0	35+	1966	1	.0	0	0	0	.1	7.4	30.0	.0	.0	.0
Jul	.0	.0	.0	105	1986	18	.0	0	41+	1988	1	.0	0	0	0	.6	12.4	31.0	.0	.0	.0
Aug	.0	.0	.0	103	1999	2	.0	0	41	1986	29	.0	0	0	0	.2	10.3	31.0	.0	.0	.0
Sep	.0	.0	.0	100	1998	15	.0	0	28	1981	24	.0	0	0	0	@	2.7	30.0	.0	.2	.0
Oct	.0	.0	.0	92	1986	2	.0	0	20+	1987	23	.0	0	0	0	.0	@	30.4	.0	6.4	.0
Nov	.0	.0	.0	85	1993	15	.0	0	10	1970	25	.0	0	0	0	.0	.0	21.5	.1	19.1	.0
Dec	.0	.0	.0	80	2001	6	.0	0	0	1963	22	.0	0	0	0	.0	.0	13.0	3.6	23.8	.4
Ann	.0	.0	.0	105	Jul 1986	18	-99.9	0	-23+	Jan 1994	19	99.9	0	0	0	.9	35.6	289.2	14.9	127.3	2.7

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1963-2001

(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: WAYNE 2, WV

COOP ID: 469323

Climate Division: WV 3

NWS Call Sign:

Elevation: 600 Feet Lat: 38°14N

Lon: 82°27W

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	3.40	3.15	2.30	1999	9	8.08	1978	.61	1981	12.3	8.0	2.5	.7	1.05	1.37	1.85	2.27	2.67	3.08	3.53	4.07	4.76	5.83	6.83
Feb	3.12	2.91	2.66	1989	16	7.22	1989	1.19	1977	10.6	6.1	1.5	.5	1.25	1.54	1.94	2.28	2.60	2.92	3.27	3.67	4.18	4.96	5.67
Mar	4.08	3.88	2.05	1967	14	11.38	1997	1.54	1981	12.0	8.3	2.8	.8	1.45	1.84	2.39	2.86	3.31	3.77	4.27	4.85	5.59	6.74	7.79
Apr	3.88	3.71	2.40	1987	1	8.30	1987	1.14	1971	9.9	6.9	2.4	.4	1.40	1.77	2.29	2.73	3.15	3.58	4.05	4.59	5.29	6.36	7.34
May	4.45	4.24	3.34	1996	16	11.06	1996	1.55	1987	11.2	8.3	2.7	.8	1.74	2.15	2.74	3.23	3.69	4.15	4.66	5.25	5.99	7.13	8.17
Jun	4.06	3.64	3.80	1982	2	10.80	1982	.94	1988	9.5	6.6	1.9	.6	1.16	1.55	2.13	2.64	3.13	3.64	4.21	4.88	5.75	7.12	8.38
Jul	4.46	4.35	4.50	2001	27	8.15	1980	2.17	1995	9.8	7.7	3.3	.9	2.37	2.73	3.21	3.60	3.95	4.30	4.67	5.09	5.61	6.39	7.08
Aug	4.33	4.04	4.13	1999	25	7.61	1999	1.25	1981	8.6	6.2	2.6	.9	1.79	2.18	2.74	3.20	3.63	4.07	4.54	5.09	5.77	6.83	7.78
Sep	2.92	2.75	2.00	1977	6	5.87	1979	.40	1998	7.5	4.7	1.6	.6	.66	.94	1.36	1.75	2.13	2.54	3.00	3.54	4.26	5.40	6.48
Oct	2.90	2.59	2.50	1999	12	5.76	1976	.38	1992	8.0	5.3	1.8	.6	.81	1.08	1.50	1.86	2.22	2.59	3.01	3.49	4.13	5.12	6.05
Nov	3.33	2.92	1.76	1980	18	8.16	1985	.96	1976	8.8	5.7	1.6	.4	1.21	1.52	1.97	2.35	2.71	3.08	3.48	3.95	4.54	5.46	6.31
Dec	3.78	3.32	3.00	1978	8	8.99	1978	1.51	1980	11.9	7.3	2.5	.8	1.47	1.82	2.32	2.73	3.12	3.52	3.95	4.46	5.09	6.07	6.96
Ann	44.71	45.18	4.50	Jul 2001	27	11.38	Mar 1997	.38	Oct 1992	120.1	81.1	27.2	8.0	34.67	36.68	39.22	41.12	42.79	44.40	46.04	47.85	50.01	53.13	55.80

+ 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: 1963-2001

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

Complete documentation available from:
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Station: WAYNE 2, WV

COOP ID: 469323

Climate Division: WV 3

NWS Call Sign:

Elevation: 600 Feet

Lat: 38°14N

Lon: 82°27W

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	3.4	1.3	1	#	7.0	1978	20	13.5	1977	18	1978	22	8	1994	2.9	1.8	.5	.3	.0	4.4	2.8	1.9	.0
Feb	4.3	1.3	#	#	8.0	1998	6	14.0	1998	8	1998	6	4	1978	1.6	1.3	.5	.1	.0	3.8	2.9	1.1	.0
Mar	.6	.0	#	0	3.0	1978	3	3.0+	1978	6	1978	4	1	1978	.5	.4	.1	.0	.0	.6	.2	.1	.0
Apr	.1	.0	#	0	1.0	1996	9	1.0+	1996	11	1982	2	6	1982	@	@	.0	.0	.0	.0	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	2.0	1976	29	2.0	1976	2	1995	15	#+	2000	.2	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.5	.0	#	#	2.0	1976	31	3.5	1998	2+	1999	29	#+	2000	.8	.5	.0	.0	.0	.6	.0	.0	.0
Ann	9.1	2.6	N/A	N/A	8.0	Feb 1998	6	14.0	Feb 1998	18	Jan 1978	22	8	Jan 1994	6.0	4.1	1.1	.4	.0	9.5	5.9	3.1	.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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Elevation: 600 Feet

Lat: 38° 14N

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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	5/25	5/19	5/15	5/12	5/09	5/06	5/03	4/29	4/23
32	5/14	5/10	5/06	5/04	5/01	4/28	4/25	4/22	4/18
28	4/25	4/20	4/17	4/14	4/11	4/08	4/05	4/01	3/27
24	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/25	3/20
20	4/08	4/01	3/26	3/22	3/18	3/13	3/09	3/03	2/24
16	3/21	3/13	3/08	3/03	2/26	2/22	2/17	2/11	2/04
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	9/24	9/28	10/01	10/04	10/06	10/08	10/11	10/14	10/18
32	10/01	10/06	10/09	10/12	10/15	10/18	10/20	10/24	10/28
28	10/10	10/16	10/20	10/23	10/26	10/30	11/02	11/06	11/12
24	10/20	10/25	10/29	11/01	11/04	11/07	11/10	11/14	11/19
20	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/24	11/29
16	11/11	11/18	11/23	11/27	12/01	12/05	12/09	12/14	12/20
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	162	158	153	149	145	141	136	129
32	185	179	174	170	166	163	159	154	147
28	220	213	207	202	198	194	189	183	176
24	235	228	222	218	214	209	205	200	192
20	266	258	252	246	242	237	231	225	217
16	304	295	288	282	277	271	265	258	249

* 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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	49	74	210	425	706	942	1103	1075	799	470	189	82	49	123	333	758	1464	2406	3509	4584	5383	5853	6042	6124
45	22	33	122	292	552	792	948	920	649	323	104	40	22	55	177	469	1021	1813	2761	3681	4330	4653	4757	4797
50	5	15	62	178	401	642	793	765	500	197	50	18	5	20	82	260	661	1303	2096	2861	3361	3558	3608	3626
55	0	1	27	101	264	494	638	610	355	102	17	3	0	1	28	129	393	887	1525	2135	2490	2592	2609	2612
60	0	0	8	49	148	344	483	455	226	44	3	0	0	0	8	57	205	549	1032	1487	1713	1757	1760	1760
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	40	68	162	305	457	622	740	728	519	322	157	64	40	108	270	575	1032	1654	2394	3122	3641	3963	4120	4184

(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