U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: HUNTINGTON TRI STATE, WV **COOP ID: 464393**

Climate Division: WV 3 **NWS Call Sign: HTS** **Elevation: 824 Feet** **Lat: 38˚22N** **Lon: 82˚33W**

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	41.0	24.5	32.7	76	1999	22	41.9	1990	-21	1994	19	19.0	1977	991	0	.0	.0	8.4	8.0	23.1	1.0
Feb	46.1	27.5	36.8	79	1977	26	45.7	1976	-9	1996	4	24.0	1978	796	0	.0	.0	11.5	5.1	19.1	.1
Mar	56.3	35.5	45.9	86	1989	28	52.5	1973	-2	1980	3	40.1	1996	596	8	.0	.0	21.0	.7	12.9	@
Apr	66.6	43.7	55.2	92	1985	21	60.2	1981	20	1985	10	50.3	1982	308	25	.0	.1	28.0	.0	3.5	.0
May	74.6	52.6	63.6	93	1991	30	71.4	1991	27	1966	10	58.7	1997	116	82	.0	.5	31.0	.0	.1	.0
Jun	81.7	60.9	71.3	100	1988	25	74.8	1994	40+	1966	1	65.6	1972	14	216	@	4.0	30.0	.0	.0	.0
Jul	85.1	65.4	75.3	102+	1988	8	80.3	1999	46	1968	5	71.5	1976	2	337	.3	8.3	31.0	.0	.0	.0
Aug	83.7	64.1	73.9	100+	1964	3	79.2	1983	43+	1965	29	69.2	1982	2	294	.1	6.7	31.0	.0	.0	.0
Sep	77.0	56.8	66.9	97+	1983	10	72.5	1998	31	1983	24	62.0	1976	55	128	.0	1.6	30.0	.0	@	.0
Oct	66.4	44.8	55.6	87	1997	13	63.4	1971	16	1962	27	48.8	1988	294	18	.0	.0	30.1	.0	2.8	.0
Nov	55.1	36.6	45.9	83	1961	3	52.8	1985	8	1964	22	38.1	1976	560	3	.0	.0	20.0	.2	11.1	.0
Dec	45.3	28.9	37.1	80	1982	3	45.3	1984	-13	1989	23	25.2	1989	849	0	.0	.0	11.9	4.2	19.2	.3
Ann	64.9	45.1	55.0	102+	Jul 1988	8	80.3	Jul 1999	-21	Jan 1994	19	19.0	Jan 1977	4583	1111	.4	21.2	283.9	18.2	91.8	1.4

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1961-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.21	2.71	2.50	1974	10	6.37	1978	.64	1981
Feb	3.09	2.63	2.83	2000	18	8.67	1989	.76	1977
Mar	3.83	3.19	3.17	1997	1	8.62	1994	1.55	1986
Apr	3.33	3.27	1.91	1966	30	6.79	1998	.74	1976
May	4.41	4.13	3.73	1990	28	9.26	1974	1.20	1991
Jun	3.88	4.12	2.78	1979	21	7.63	1979	.77	1988
Jul	4.46	4.33	3.07	1962	1	7.94	1980	1.37	1974
Aug	3.88	4.01	3.01	1999	24	6.93	1989	1.03	1981
Sep	2.80	2.63	2.23	1964	28	6.32	1989	.35	1985
Oct	2.73	2.55	2.71	1985	20	5.71	1983	.55	1987
Nov	3.32	3.13	2.55	1986	8	7.40	1985	.73	1976
Dec	3.37	2.92	3.00	1978	8	8.69	1978	1.50	1971
Ann	42.31	40.62	3.73	May 1990	28	9.26	May 1974	.35	Sep 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.1	7.6	2.0	.4
Feb	12.6	7.0	1.8	.5
Mar	13.6	8.2	2.2	.6
Apr	12.9	7.7	2.2	.5
May	13.2	8.6	3.0	.8
Jun	11.8	7.8	3.1	.7
Jul	11.2	7.6	2.8	1.1
Aug	9.7	6.1	2.9	1.1
Sep	8.6	5.6	1.9	.5
Oct	9.2	5.4	1.8	.6
Nov	11.3	6.9	2.3	.7
Dec	12.9	7.1	2.3	.6
Ann	141.1	85.6	28.3	8.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.03	1.33	1.78	2.17	2.54	2.92	3.34	3.84	4.47	5.46	6.38
Feb	1.08	1.37	1.79	2.15	2.49	2.84	3.22	3.67	4.24	5.12	5.93
Mar	1.37	1.73	2.25	2.69	3.10	3.53	4.00	4.54	5.24	6.31	7.29
Apr	1.00	1.32	1.79	2.20	2.60	3.01	3.46	4.00	4.69	5.77	6.77
May	1.66	2.07	2.66	3.15	3.62	4.10	4.61	5.21	5.97	7.14	8.21
Jun	1.32	1.69	2.22	2.68	3.11	3.56	4.05	4.62	5.36	6.49	7.54
Jul	1.76	2.17	2.75	3.24	3.70	4.16	4.67	5.25	5.99	7.13	8.16
Aug	1.35	1.72	2.25	2.70	3.13	3.57	4.05	4.61	5.33	6.44	7.46
Sep	.64	.90	1.31	1.68	2.05	2.44	2.88	3.40	4.09	5.19	6.22
Oct	.75	1.01	1.40	1.75	2.08	2.44	2.83	3.29	3.89	4.84	5.72
Nov	1.18	1.50	1.95	2.33	2.69	3.07	3.47	3.95	4.55	5.48	6.34
Dec	1.34	1.65	2.09	2.45	2.80	3.15	3.53	3.96	4.52	5.37	6.14
Ann	32.60	34.54	36.99	38.83	40.45	42.00	43.60	45.35	47.45	50.47	53.06

\+ 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: 1961-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	8.9	7.4	1	1	10.4	1975	12	30.3	1978	20	1978	20	6+	1978	7.0	2.7	.8	.4	@	8.8	4.6	2.7	.5
Feb	7.5	5.7	1	1	10.0	1985	12	23.9	1986	13	1998	6	5+	1985	5.3	2.3	.8	.4	@	6.8	4.4	2.1	.4
Mar	4.7	4.1	#	0	21.1	1993	13	23.6	1993	22	1993	14	2	1993	3.3	1.4	.4	.1	@	2.1	1.1	.5	.1
Apr	.8	.0	#	0	6.8	1987	3	14.4	1987	14	1987	5	1	1987	.7	.1	.1	.1	.0	.1	.1	.1	@
May	.0	.0	#	0	.2	1989	7	.2	1989	0	0	0	#	1997	.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	1.5	1993	31	1.5	1993	1	1993	31	#	1993	.1	.0	.0	.0	.0	@	.0	.0	.0
Nov	1.1	.2	#	0	4.0	1971	24	4.6	1987	4	1971	24	#	1995	1.3	.3	.1	.0	.0	.4	.1	.0	.0
Dec	3.1	2.0	#	0	5.7	1993	28	10.7	1993	5+	1993	30	1+	1993	4.1	1.0	.2	@	.0	2.6	.4	.1	.0
Ann	26.2	19.4	N/A	N/A	21.1	Mar 1993	13	30.3	Jan 1978	22	Mar 1993	14	6+	Jan 1978	21.8	7.8	2.4	1.0	@	20.8	10.7	5.5	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

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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	5/16	5/11	5/07	5/03	4/30	4/27	4/24	4/20	4/15
32	5/03	4/28	4/24	4/20	4/17	4/14	4/11	4/07	4/01
28	4/19	4/14	4/11	4/08	4/05	4/02	3/30	3/26	3/21
24	4/05	3/31	3/27	3/24	3/22	3/19	3/16	3/12	3/07
20	3/26	3/18	3/12	3/07	3/02	2/26	2/21	2/15	2/07
16	3/15	3/08	3/03	2/26	2/22	2/18	2/13	2/08	2/01

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	9/28	10/02	10/05	10/07	10/09	10/12	10/14	10/17	10/21
32	10/03	10/09	10/13	10/16	10/20	10/23	10/27	10/31	11/06
28	10/15	10/21	10/25	10/29	11/01	11/05	11/08	11/12	11/18
24	10/27	11/01	11/05	11/09	11/12	11/16	11/19	11/23	11/29
20	11/09	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/19
16	11/15	11/25	12/02	12/09	12/15	12/20	12/27	1/03	1/13

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	174	169	165	161	158	153	149	142
32	209	201	195	190	185	180	175	169	161
28	232	225	219	214	210	205	201	195	187
24	258	250	244	240	235	230	226	220	212
20	300	290	283	277	271	265	259	252	243
16	323	312	304	298	292	286	280	273	263

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	991	796	596	308	116	14	2	2	55	294	560	849	4583
60	846	650	444	179	59	3	0	0	19	199	428	711	3538
57	761	570	359	120	32	1	0	0	8	143	346	626	2966
55	701	518	305	87	20	0	0	0	4	111	293	567	2606
50	558	390	191	31	5	0	0	0	1	52	180	427	1835
32	172	80	10	0	0	0	0	0	0	0	6	90	358

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	161	218	452	705	992	1195	1359	1318	1068	752	439	239	8898
55	4	8	45	125	294	505	646	605	382	125	39	10	2788
57	3	5	33	97	242	445	584	543	326	93	27	6	2404
60	1	2	21	63	172	357	491	451	246	56	14	3	1877
65	0	0	8	25	82	216	337	294	128	18	3	0	1111
70	0	0	2	5	27	104	189	156	56	3	0	0	542

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	62	105	258	480	756	964	1121	1081	837	513	248	108	62	167	425	905	1661	2625	3746	4827	5664	6177	6425	6533
45	35	58	163	345	601	814	966	926	687	364	157	55	35	93	256	601	1202	2016	2982	3908	4595	4959	5116	5171
50	11	25	89	221	447	664	811	771	537	234	86	29	11	36	125	346	793	1457	2268	3039	3576	3810	3896	3925
55	2	10	44	132	304	514	656	616	390	133	44	8	2	12	56	188	492	1006	1662	2278	2668	2801	2845	2853
60	0	1	24	67	176	365	501	461	254	59	14	0	0	1	25	92	268	633	1134	1595	1849	1908	1922	1922
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	36	63	161	293	477	650	774	743	541	309	141	58	36	99	260	553	1030	1680	2454	3197	3738	4047	4188	4246

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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