

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: HUNTINGDON WATER PLANT, TN

1971-2000

COOP ID: 404417

Climate Division: TN 4

NWS Call Sign:

Elevation: 440 Feet

Lat: 36°00N

Lon: 88°25W

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	42.6	23.7	33.2	77	1972	25	40.8	1990	-23	1963	24	19.7	1977	989	0	.0	.0	11.3	4.7	22.7	.7
Feb	48.5	26.6	37.6	83	1982	24	45.0	1990	-2+	1971	9	24.1	1978	770	0	.0	.0	15.1	2.8	19.0	.2
Mar	58.0	35.2	46.6	87	1967	14	52.5	1973	7	1980	3	40.5	1980	570	0	.0	.0	25.0	.3	11.6	.0
Apr	67.9	43.6	55.8	91+	1987	22	62.0	1981	25+	1973	11	49.4	1983	291	14	.0	.2	29.0	.0	3.0	.0
May	76.1	52.9	64.5	94	1978	27	70.3	1987	32	1963	1	58.7	1976	113	96	.0	1.4	31.0	.0	.0	.0
Jun	84.0	61.7	72.9	101+	1988	24	76.1	1994	41	1966	1	67.6	1974	6	241	.2	10.1	30.0	.0	.0	.0
Jul	87.6	65.8	76.7	103	1980	17	81.0	1993	48	1968	5	74.0	1996	0	362	.6	17.7	31.0	.0	.0	.0
Aug	86.7	63.3	75.0	103+	1980	1	80.1	1995	47+	1964	13	70.8	1992	2	313	.5	14.6	31.0	.0	.0	.0
Sep	80.5	55.6	68.1	100+	1980	2	72.8	1998	32	1983	24	63.0	1974	49	140	.1	6.4	30.0	.0	@	.0
Oct	69.6	42.7	56.2	91+	1963	12	63.1	1971	24+	1965	25	49.7	1976	299	25	.0	.2	30.8	.0	3.2	.0
Nov	56.9	34.6	45.8	85	1984	1	52.0	1985	10	1970	24	36.5	1976	577	0	.0	.0	23.4	.1	11.6	.0
Dec	46.6	26.9	36.8	77+	1980	7	45.9	1984	-11	1963	24	25.6	1989	876	0	.0	.0	15.6	2.5	19.8	.3
Ann	67.1	44.4	55.8	103+	Aug 1980	1	81.0	Jul 1993	-23	Jan 1963	24	19.7	Jan 1977	4542	1191	1.4	50.6	303.2	10.4	90.9	1.2

+ 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: 1962-2001

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

028-A

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No. 20

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Station: HUNTINGDON WATER PLANT, TN

COOP ID: 404417

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NWS Call Sign:

Elevation: 440 Feet Lat: 36°00N

Lon: 88°25W

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	4.38	4.27	3.60	1999	23	9.69	1999	.70	1986	11.0	7.5	2.9	1.1	1.03	1.43	2.08	2.65	3.22	3.83	4.50	5.31	6.38	8.06	9.65
Feb	4.37	3.77	3.10	1971	22	11.01	1989	.93	1995	10.2	7.0	3.0	1.1	1.42	1.83	2.44	2.96	3.46	3.98	4.55	5.21	6.07	7.40	8.63
Mar	5.43	4.82	3.45	1997	2	13.34	1997	2.04	1982	12.2	8.4	3.7	1.6	2.05	2.55	3.28	3.88	4.46	5.05	5.68	6.42	7.36	8.81	10.13
Apr	4.57	4.27	4.51	1974	22	12.90	1979	1.05	1976	10.2	7.2	3.1	1.2	1.33	1.76	2.41	2.98	3.53	4.11	4.74	5.49	6.46	7.98	9.39
May	5.16	4.32	3.35	1983	1	13.58	1983	1.06	1987	11.2	7.6	3.6	1.6	1.48	1.97	2.71	3.35	3.98	4.63	5.35	6.21	7.31	9.05	10.66
Jun	4.31	4.22	2.86	1974	1	9.03	1998	.06	1988	9.7	6.9	3.3	1.3	1.06	1.46	2.09	2.65	3.20	3.79	4.44	5.22	6.23	7.84	9.35
Jul	4.90	4.42	4.57	1967	6	10.89	1972	.42	1983	9.6	7.1	3.2	1.6	1.35	1.82	2.53	3.14	3.74	4.38	5.08	5.90	6.98	8.66	10.24
Aug	3.37	2.84	5.31	1971	22	10.20	1971	.21	1999	7.1	4.7	2.1	1.2	.54	.83	1.32	1.78	2.26	2.78	3.38	4.11	5.09	6.67	8.19
Sep	4.29	3.58	7.43	1982	13	10.09	1979	.29	1983	8.4	5.6	2.7	1.4	.98	1.37	2.00	2.57	3.13	3.73	4.40	5.21	6.26	7.94	9.52
Oct	3.62	3.18	3.47	1981	18	7.44	1990	.57	2000	7.8	5.2	2.7	1.1	1.07	1.41	1.93	2.37	2.81	3.26	3.76	4.34	5.10	6.29	7.39
Nov	4.95	4.37	5.32	2001	29	9.20	1988	1.04	1998	10.4	6.9	3.6	1.5	1.54	2.01	2.71	3.31	3.89	4.49	5.15	5.93	6.93	8.49	9.93
Dec	5.35	4.27	4.51	1982	26	14.07	1990	.85	1976	10.2	7.1	3.3	1.5	1.22	1.71	2.50	3.20	3.90	4.65	5.49	6.49	7.81	9.90	11.87
Ann	54.70	57.15	7.43	Sep 1982	13	14.07	Dec 1990	.06	Jun 1988	118.0	81.2	37.2	16.2	38.61	41.72	45.70	48.73	51.42	54.03	56.72	59.69	63.30	68.55	73.09

+ 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: 1962-2001

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

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Station: HUNTINGDON WATER PLANT, TN

COOP ID: 404417

Climate Division: TN 4

NWS Call Sign:

Elevation: 440 Feet

Lat: 36°00N

Lon: 88°25W

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	1.9	.3	#	#	6.3	1982	13	10.8	1977	6	1988	8	2	1988	1.1	.9	.3	.1	.0	1.3	.3	.1	.0
Feb	2.3	.8	#	#	7.0	1979	7	12.5	1979	7+	1985	2	2	1979	1.1	.8	.3	.2	.0	.9	.5	.3	.0
Mar	.3	.0	#	0	3.0	1987	31	3.5	1980	4	1980	2	#+	1998	.3	.2	@	.0	.0	.2	@	.0	.0
Apr	#	.0	0	0	#	1977	5	#+	1977	0	0	0	0	0	.0	.0	.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	#	1993	31	#	1993	#	1993	31	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	#	0	.5	1976	12	1.0	1976	2	1995	15	#+	1995	.1	.0	.0	.0	.0	.1	.0	.0	.0
Dec	.4	.0	#	0	2.8	1997	1	5.6	1997	3	1997	29	#+	2000	.4	.2	.0	.0	.0	.4	@	.0	.0
Ann	4.9	1.1	N/A	N/A	7.0	Feb 1979	7	12.5	Feb 1979	7+	Feb 1985	2	2+	Jan 1988	3.0	2.1	.6	.3	.0	2.9	.8	.4	.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:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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No. 20 1971-2000

Station: HUNTINGDON WATER PLANT, TN

COOP ID: 404417

Climate Division: TN 4

NWS Call Sign:

Elevation: 440 Feet

Lat: 36°00N

Lon: 88°25W

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	5/04	4/29	4/25	4/21	4/18	4/15	4/12	4/08	4/02
32	4/21	4/16	4/13	4/10	4/08	4/05	4/03	3/31	3/26
28	4/11	4/06	4/03	3/31	3/28	3/26	3/23	3/20	3/15
24	3/22	3/17	3/13	3/10	3/08	3/05	3/02	2/26	2/21
20	3/11	3/05	3/01	2/25	2/21	2/18	2/14	2/09	2/03
16	3/04	2/26	2/21	2/17	2/13	2/09	2/05	1/31	1/23
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	9/29	10/04	10/07	10/10	10/13	10/15	10/18	10/21	10/26
32	10/04	10/10	10/14	10/18	10/21	10/24	10/28	11/01	11/07
28	10/22	10/28	11/01	11/05	11/08	11/11	11/15	11/19	11/25
24	10/29	11/04	11/08	11/12	11/15	11/19	11/23	11/27	12/03
20	11/15	11/22	11/26	11/30	12/04	12/07	12/11	12/15	12/22
16	11/24	12/03	12/10	12/15	12/21	12/26	1/01	1/09	1/20
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	195	189	184	180	177	173	169	164	158
32	212	206	202	199	195	192	188	184	178
28	246	239	233	228	224	219	215	209	201
24	275	267	262	257	252	248	243	237	229
20	312	302	296	290	284	279	273	267	257
16	>365	333	323	315	309	303	296	289	278

* 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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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Station: HUNTINGDON WATER PLANT, TN

COOP ID: 404417

Climate Division: TN 4 NWS Call Sign: Elevation: 440 Feet Lat: 36°00N Lon: 88°25W

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	989	770	570	291	113	6	0	2	49	299	577	876	4542
60	834	630	421	173	49	1	0	0	15	185	430	721	3459
57	741	550	337	117	26	0	0	0	6	130	347	634	2888
55	687	498	284	87	16	0	0	0	3	99	293	575	2542
50	543	371	172	32	4	0	0	0	0	44	177	433	1776
32	157	69	7	0	0	0	0	0	0	0	5	90	328

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	191	223	460	712	1007	1225	1385	1333	1081	749	418	237	9021
55	9	9	24	109	310	535	672	620	394	135	16	9	2842
57	1	4	15	80	258	475	610	558	337	104	10	6	2458
60	0	0	6	45	188	385	517	465	255	65	3	0	1929
65	0	0	0	14	96	241	362	313	140	25	0	0	1191
70	0	0	0	3	37	117	213	174	59	7	0	0	610

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	81	138	322	551	832	1052	1206	1161	921	591	290	128	81	219	541	1092	1924	2976	4182	5343	6264	6855	7145	7273
45	41	77	208	409	677	902	1051	1006	771	439	186	68	41	118	326	735	1412	2314	3365	4371	5142	5581	5767	5835
50	15	33	122	282	523	752	896	851	621	299	109	32	15	48	170	452	975	1727	2623	3474	4095	4394	4503	4535
55	1	13	65	173	372	602	741	696	473	182	55	8	1	14	79	252	624	1226	1967	2663	3136	3318	3373	3381
60	0	0	29	91	237	452	586	541	332	96	21	0	0	0	29	120	357	809	1395	1936	2268	2364	2385	2385
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	53	97	206	351	537	720	824	787	610	386	184	77	53	150	356	707	1244	1964	2788	3575	4185	4571	4755	4832

(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