

Climatography of the United States

No. 20

1971-2000

Station: HIGH POINT, NC

COOP ID: 314063

Climate Division: NC 3

NWS Call Sign:

Elevation: 900 Feet Lat: 35° 58N Lon: 79° 58W

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	49.8	29.6	39.7	78	1975	29	49.6	1974	-7	1985	21	28.7	1977	784	0	.0	.0	15.3	1.3	19.3	.2
Feb	54.7	32.1	43.4	85	1977	27	51.5	1976	1	1958	18	35.3	1978	606	0	.0	.0	18.8	.5	16.3	.0
Mar	63.1	39.0	51.1	88	1998	29	56.3	1976	7	1993	15	46.0	1993	434	2	.0	.0	28.1	.1	8.3	.0
Apr	72.3	46.6	59.5	93	1960	25	64.1	1981	22	1992	3	54.7	1983	189	22	.0	.2	29.7	.0	1.9	.0
May	79.1	55.0	67.1	97	1953	30	71.5	1991	33	1996	1	61.9	1992	50	115	.0	1.4	31.0	.0	.0	.0
Jun	85.5	63.1	74.3	104	1954	27	79.2	1981	39	1997	5	70.0	1992	4	284	.0	7.1	30.0	.0	.0	.0
Jul	89.0	67.4	78.2	106	1952	29	81.9	1977	49	1988	2	75.5	1984	0	410	.3	14.8	31.0	.0	.0	.0
Aug	87.4	66.1	76.8	104+	1988	19	80.3	1980	46+	1986	30	72.0	1992	0	363	.3	10.8	31.0	.0	.0	.0
Sep	81.6	59.8	70.7	98+	1990	7	75.4	1980	35+	2001	26	67.9	1984	15	186	.0	3.2	30.0	.0	.0	.0
Oct	72.0	48.0	60.0	94+	1954	6	67.2	1984	24	1992	20	54.2	1988	196	40	.0	.3	30.9	.0	1.1	.0
Nov	61.9	39.6	50.8	89	1974	3	58.0	1985	10+	1950	26	44.6	1976	429	2	.0	.0	26.8	.0	7.9	.0
Dec	52.9	32.5	42.7	80	1998	7	51.3	1984	0	1983	25	33.6	2000	692	0	.0	.0	19.1	.6	16.4	@
Ann	70.8	48.2	59.5	106	Jul 1952	29	81.9	Jul 1977	-7	Jan 1985	21	28.7	Jan 1977	3399	1424	.6	37.8	321.7	2.5	71.2	.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: 1948-2001

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

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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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NWS Call Sign:

Elevation: 900 Feet Lat: 35°58N

Lon: 79°58W

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	4.12	4.27	2.83	1962	6	8.00	1998	.72	1981	11.4	7.5	3.1	1.1	1.37	1.76	2.33	2.82	3.28	3.77	4.29	4.91	5.70	6.93	8.06
Feb	3.46	3.54	2.60	1973	2	6.97	1989	.60	1978	9.5	6.3	2.5	1.0	1.17	1.50	1.98	2.38	2.77	3.17	3.61	4.12	4.78	5.79	6.73
Mar	4.26	3.69	2.52	1993	4	9.20	1975	1.05	1985	10.7	7.5	3.1	1.0	1.51	1.91	2.50	2.98	3.45	3.93	4.45	5.06	5.84	7.03	8.13
Apr	3.72	3.58	5.10	1992	21	7.23	1992	.77+	1995	9.8	6.5	2.4	.9	.89	1.24	1.78	2.26	2.74	3.25	3.82	4.50	5.39	6.80	8.12
May	4.23	4.10	3.21	1973	28	8.70	1990	1.58	1986	10.8	7.5	3.2	1.0	1.46	1.86	2.44	2.94	3.40	3.89	4.41	5.03	5.81	7.03	8.15
Jun	3.89	3.38	4.25	1972	21	8.74	1995	.59	1990	10.1	7.0	3.2	.9	1.30	1.66	2.20	2.66	3.10	3.56	4.06	4.64	5.39	6.54	7.61
Jul	4.28	4.17	3.71	1957	18	10.02	1975	.88	1976	10.7	7.3	2.9	1.1	1.08	1.48	2.11	2.66	3.20	3.77	4.41	5.17	6.16	7.72	9.19
Aug	4.23	4.29	4.07	1995	27	8.95	1974	1.53	1980	9.4	6.2	2.9	1.2	1.59	1.98	2.55	3.02	3.47	3.93	4.43	5.00	5.74	6.87	7.90
Sep	3.90	2.97	5.23	1977	8	11.15	1996	.02	1985	8.1	5.6	2.6	1.1	.38	.66	1.19	1.73	2.32	2.98	3.77	4.75	6.10	8.35	10.54
Oct	3.49	2.84	6.37	1954	15	12.35	1990	.01	2000	7.0	5.1	2.2	1.2	.26	.48	.93	1.41	1.95	2.56	3.30	4.24	5.54	7.73	9.89
Nov	3.23	2.65	2.47	1985	21	10.42	1985	.39	1981	9.2	5.8	2.4	.7	.92	1.23	1.69	2.10	2.49	2.90	3.35	3.89	4.58	5.67	6.68
Dec	3.38	3.69	2.98	1958	28	6.47	1973	.90	1988	10.4	6.6	2.5	.9	1.07	1.39	1.87	2.27	2.66	3.07	3.52	4.04	4.71	5.76	6.73
Ann	46.19	46.96	6.37	Oct 1954	15	12.35	Oct 1990	.01	Oct 2000	117.1	78.9	33.0	12.1	35.53	37.65	40.34	42.36	44.13	45.83	47.58	49.50	51.81	55.12	57.97

+ 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

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NWS Call Sign:

Elevation: 900 Feet

Lat: 35°58N

Lon: 79°58W

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	1.7	.0	#	0	11.0	1987	22	11.0	1987	15	2000	25	2	1987	.7	.5	.2	.2	@	.8	.6	.4	@
Feb	1.7	.5	#	0	10.5	1979	18	17.5	1979	10	1979	18	2	1979	.7	.5	.1	.1	@	.9	.6	.2	.1
Mar	1.0	.0	#	0	8.0	1980	2	10.8	1980	8	1980	2	1	1980	.3	.3	.2	@	.0	.3	.2	.1	.0
Apr	#	.0	#	0	#	1982	8	#	1982	#	1992	4	#	1992	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1987	11	#+	1987	#	2000	19	#	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.8	.0	#	0	6.0	1973	17	6.3	1973	6	1973	17	1	1973	.3	.2	.1	.1	.0	.1	.1	@	.0
Ann	5.2	.5	N/A	N/A	11.0	Jan 1987	22	17.5	Feb 1979	15	Jan 2000	25	2+	Jan 1987	2.0	1.5	.6	.4	@	2.1	1.5	.7	.1

+ 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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Lat: 35° 58N

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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	5/02	4/27	4/24	4/21	4/19	4/16	4/13	4/10	4/06
32	4/21	4/16	4/13	4/10	4/07	4/04	4/01	3/28	3/23
28	4/13	4/06	4/01	3/27	3/23	3/19	3/15	3/10	3/02
24	3/31	3/24	3/19	3/14	3/10	3/06	3/02	2/25	2/18
20	3/17	3/10	3/05	2/28	2/24	2/20	2/15	2/10	2/03
16	3/06	2/26	2/20	2/14	2/09	2/04	1/30	1/23	1/13
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	10/02	10/07	10/11	10/14	10/16	10/19	10/22	10/26	10/30
32	10/12	10/19	10/23	10/27	10/31	11/04	11/08	11/13	11/19
28	10/26	11/01	11/04	11/08	11/11	11/14	11/17	11/21	11/26
24	11/06	11/14	11/19	11/24	11/28	12/03	12/07	12/13	12/21
20	11/23	11/30	12/05	12/10	12/14	12/18	12/22	12/27	1/03
16	12/02	12/11	12/17	12/22	12/27	1/01	1/07	1/13	1/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	192	188	184	180	176	172	168	161
32	231	223	217	212	207	202	197	191	182
28	257	249	242	237	232	227	221	215	206
24	292	282	274	268	263	257	251	243	233
20	318	309	303	297	292	287	281	275	265
16	358	341	332	325	319	313	306	299	288

* 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	784	606	434	189	50	4	0	0	15	196	429	692	3399
60	630	466	292	91	12	0	0	0	2	103	291	545	2432
57	545	388	216	51	4	0	0	0	1	63	217	458	1943
55	487	336	172	32	1	0	0	0	0	43	174	402	1647
50	351	218	86	7	0	0	0	0	0	13	90	276	1041
32	50	12	0	0	0	0	0	0	0	0	1	29	92

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	288	330	591	823	1088	1270	1433	1386	1161	867	563	360	10160
55	13	10	50	165	376	580	720	673	471	198	47	20	3323
57	9	6	32	124	316	520	658	611	412	156	30	14	2888
60	1	0	15	74	231	430	565	518	324	102	14	8	2282
65	0	0	2	22	115	284	410	363	186	40	2	0	1424
70	0	0	0	3	41	153	255	215	80	11	0	0	758

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	119	181	371	592	847	1041	1194	1149	927	629	344	166	119	300	671	1263	2110	3151	4345	5494	6421	7050	7394	7560
45	59	102	241	445	692	891	1039	994	777	474	222	94	59	161	402	847	1539	2430	3469	4463	5240	5714	5936	6030
50	27	52	140	309	537	741	884	839	627	327	125	45	27	79	219	528	1065	1806	2690	3529	4156	4483	4608	4653
55	5	18	70	187	385	591	729	684	478	199	57	19	5	23	93	280	665	1256	1985	2669	3147	3346	3403	3422
60	0	1	28	95	243	441	574	529	332	101	17	0	0	1	29	124	367	808	1382	1911	2243	2344	2361	2361
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	72	117	232	377	553	713	826	790	620	396	207	101	72	189	421	798	1351	2064	2890	3680	4300	4696	4903	5004

(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