

Climatography of the United States

No. 20

1971-2000

Station: NEW HOLLAND, NC

COOP ID: 316135

Climate Division: NC 7

NWS Call Sign:

Elevation: 2 Feet

Lat: 35° 27N

Lon: 76° 13W

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	53.0	32.7	42.9	80+	1950	16	53.4	1974	-12	1985	21	31.7	1977	687	0	.0	.0	21.5	.6	13.4	@
Feb	55.1	33.5	44.3	84	1962	28	51.0	1990	10	1958	18	33.2	1978	580	0	.0	.0	21.1	.3	10.3	.0
Mar	63.0	40.4	51.7	86+	1990	13	58.0	1997	17	1978	1	47.6	1981	414	1	.0	.0	29.1	@	4.1	.0
Apr	70.7	47.7	59.2	93	1990	27	63.6	1977	28+	1976	13	55.1	1975	193	18	.0	.3	30.0	.0	.6	.0
May	77.9	58.2	68.1	96+	1996	20	73.2	1991	34+	1950	9	64.7	1992	33	128	.0	1.1	31.0	.0	.0	.0
Jun	84.4	65.4	74.9	99+	1952	27	78.8	1981	42	1947	5	70.8	1972	2	299	.0	6.6	30.0	.0	.0	.0
Jul	88.2	70.5	79.4	100+	1977	20	82.0	1991	40	1947	23	76.6	2000	0	445	@	14.3	31.0	.0	.0	.0
Aug	87.0	69.2	78.1	98+	1979	10	80.3	1998	43	1981	25	73.3	1976	0	407	@	10.2	31.0	.0	.0	.0
Sep	82.9	64.1	73.5	97+	1983	7	76.5	1998	40	1983	23	69.6	1976	3	257	.0	2.7	30.0	.0	.0	.0
Oct	73.7	53.0	63.4	93+	1986	2	68.7	1971	23	1976	29	56.8	1976	132	80	.0	.2	31.0	.0	.2	.0
Nov	65.1	43.7	54.4	85	1974	3	63.0	1985	15	1950	26	45.0	1976	333	15	.0	.0	29.0	.0	2.8	.0
Dec	57.5	36.5	47.0	78+	2001	2	54.2	1971	6	1989	25	36.8	1989	560	2	.0	.0	25.3	.1	9.6	.0
Ann	71.5	51.2	61.4	100+	Jul 1977	20	82.0	Jul 1991	-12	Jan 1985	21	31.7	Jan 1977	2937	1652	.0	35.4	340.0	1.0	41.0	@

+ 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: 1933-2001

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

070-A

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: NEW HOLLAND, NC

COOP ID: 316135

Climate Division: NC 7

NWS Call Sign:

Elevation: 2 Feet

Lat: 35°27N

Lon: 76°13W

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	4.87	4.25	3.90	1960	31	9.16	1978	2.08	1984	11.3	7.8	3.3	1.2	1.97	2.41	3.05	3.57	4.06	4.56	5.11	5.73	6.52	7.73	8.83
Feb	3.29	3.29	5.30	1970	3	6.70	1998	.49	1991	8.2	5.3	2.0	.7	1.18	1.49	1.93	2.31	2.67	3.04	3.44	3.90	4.50	5.42	6.26
Mar	4.11	3.67	3.00	1962	12	8.38	1994	.67	1998	9.6	6.3	2.8	.8	1.33	1.72	2.29	2.78	3.26	3.75	4.28	4.91	5.72	6.98	8.15
Apr	3.24	2.84	4.70	1978	26	7.80	1978	.40	1995	7.4	4.7	1.9	.7	.77	1.07	1.54	1.96	2.38	2.83	3.33	3.92	4.70	5.94	7.10
May	4.16	3.67	3.96	1934	2	9.14	1984	.44	1986	9.3	6.0	2.4	1.0	.78	1.15	1.76	2.32	2.90	3.52	4.22	5.07	6.21	8.03	9.76
Jun	4.46	4.21	14.92	1949	30	8.07	1981	.93	1990	8.1	6.1	2.7	1.2	1.73	2.14	2.73	3.22	3.69	4.16	4.67	5.26	6.01	7.16	8.21
Jul	5.04	4.82	5.65	1962	4	9.78	1986	1.15	1991	10.7	7.0	2.9	1.3	1.86	2.34	3.02	3.58	4.12	4.67	5.27	5.97	6.86	8.22	9.47
Aug	6.50	6.26	8.55	1986	19	15.74	1986	1.05	1997	10.3	7.4	3.4	1.9	1.52	2.12	3.07	3.93	4.77	5.67	6.68	7.88	9.46	11.97	14.33
Sep	5.39	4.35	10.70	1979	5	17.89	1979	.39	1978	8.3	6.0	2.8	1.6	.56	.95	1.70	2.45	3.26	4.17	5.24	6.58	8.41	11.45	14.41
Oct	4.34	3.35	6.55	1942	14	14.48	1971	.00	2000	5.8	3.8	2.1	1.2	.46	.97	1.70	2.32	2.96	3.65	4.42	5.36	6.60	8.60	10.50
Nov	3.47	3.05	4.97	1985	4	9.32	1972	.56	1973	7.0	5.0	2.2	.8	.90	1.22	1.73	2.17	2.61	3.07	3.58	4.19	4.98	6.23	7.40
Dec	3.63	3.56	3.22	1941	24	7.71	1981	.66	1985	8.4	5.8	2.4	.9	1.14	1.48	1.99	2.43	2.86	3.30	3.78	4.35	5.08	6.22	7.27
Ann	52.50	51.11	14.92	Jun 1949	30	17.89	Sep 1979	.00	Oct 2000	104.4	71.2	30.9	13.3	40.38	42.80	45.86	48.16	50.18	52.13	54.12	56.30	58.93	62.71	65.96

+ 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: 1933-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: NEW HOLLAND, NC

COOP ID: 316135

Climate Division: NC 7

NWS Call Sign:

Elevation: 2 Feet

Lat: 35°27N

Lon: 76°13W

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	.4	.0	#	0	4.0	1973	8	4.0	1973	4	1976	17	#+	1976	.1	.1	.1	.0	.0	.1	@	.0	.0
Feb	.2	.0	#	0	3.0	1978	22	3.0	1978	10	1973	11	2	1973	.1	.1	.1	.0	.0	@	@	.0	.0
Mar	.1	.0	0	0	1.0	1971	26	1.0	1971	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1993	22	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	4.0	Jan 1973	8	4.0	Jan 1973	10	Feb 1973	11	2	Feb 1973	.3	.3	.2	.0	.0	.1	@	.0	.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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NWS Call Sign:

Elevation: 2 Feet

Lat: 35°27N

Lon: 76°13W

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	4/26	4/19	4/14	4/10	4/06	4/02	3/29	3/24	3/18
32	4/15	4/08	4/02	3/28	3/24	3/20	3/15	3/09	3/02
28	4/02	3/24	3/17	3/12	3/06	3/01	2/24	2/17	2/08
24	3/14	3/05	2/27	2/22	2/17	2/12	2/07	1/31	1/21
20	3/03	2/22	2/16	2/11	2/05	1/31	1/24	1/16	0/00
16	2/10	2/02	1/27	1/21	1/14	1/05	0/00	0/00	0/00
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	10/16	10/23	10/29	11/02	11/06	11/10	11/15	11/20	11/27
32	11/01	11/08	11/13	11/17	11/21	11/25	11/29	12/04	12/11
28	11/14	11/22	11/28	12/03	12/07	12/12	12/17	12/22	12/30
24	11/25	12/06	12/14	12/20	12/27	1/02	1/09	1/18	1/31
20	12/04	12/16	12/25	1/02	1/10	1/18	1/28	2/11	0/00
16	12/24	1/03	1/11	1/18	1/27	2/11	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	244	234	226	219	213	207	201	193	182
32	275	263	255	248	241	235	227	219	207
28	314	301	291	283	275	267	259	250	236
24	>365	343	328	318	309	301	293	283	270
20	>365	>365	>365	350	334	322	312	301	287
16	>365	>365	>365	>365	>365	365	350	340	329

* 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	687	580	414	193	33	2	0	0	3	132	333	560	2937
60	545	446	271	92	5	0	0	0	0	62	212	418	2051
57	460	367	196	51	1	0	0	0	0	35	154	336	1600
55	407	317	153	31	0	0	0	0	0	23	121	286	1338
50	287	206	71	6	0	0	0	0	0	6	56	183	815
32	37	14	0	0	0	0	0	0	0	0	0	10	61

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	373	358	610	815	1118	1288	1468	1430	1244	971	672	475	10822
55	30	17	50	156	405	598	755	717	554	281	102	38	3703
57	22	11	31	115	344	538	693	655	494	232	75	26	3236
60	13	6	14	66	256	448	600	562	404	166	44	14	2593
65	0	0	1	18	128	299	445	407	257	80	15	2	1652
70	0	0	0	2	45	164	290	252	126	28	3	0	910

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	211	251	433	639	901	1074	1237	1201	1031	758	489	282	211	462	895	1534	2435	3509	4746	5947	6978	7736	8225	8507
45	116	152	292	490	746	924	1082	1046	881	603	352	167	116	268	560	1050	1796	2720	3802	4848	5729	6332	6684	6851
50	58	77	173	345	591	774	927	891	731	452	231	85	58	135	308	653	1244	2018	2945	3836	4567	5019	5250	5335
55	26	31	87	214	438	624	772	736	581	304	127	42	26	57	144	358	796	1420	2192	2928	3509	3813	3940	3982
60	2	7	35	112	286	474	617	581	431	176	57	12	2	9	44	156	442	916	1533	2114	2545	2721	2778	2790
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	123	146	257	393	593	745	874	848	716	478	291	160	123	269	526	919	1512	2257	3131	3979	4695	5173	5464	5624

(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/normal/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