

Climatology of the United States

No. 20

1971-2000

Station: LEWISTON, NC

COOP ID: 314962

Climate Division: NC 8

NWS Call Sign:

Elevation: 50 Feet

Lat: 36°08N

Lon: 77°10W

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	51.1	29.8	40.5	81	1990	25	49.1	1974	-5	1985	21	27.5	1977	761	0	.0	.0	17.8	1.4	17.4	.1
Feb	54.1	31.5	42.8	85	1997	27	50.8	1990	0	1965	1	31.5	1978	621	0	.0	.0	18.9	.6	15.6	.0
Mar	62.7	38.1	50.4	92	1990	12	54.7	1991	14	1968	4	44.6	1981	454	1	.0	.1	28.0	@	8.9	.0
Apr	71.4	45.6	58.5	100	1990	27	64.7	1994	24+	1977	10	53.1	1975	218	23	@	.7	29.7	.0	2.3	.0
May	78.8	54.7	66.8	100	1991	31	74.9	1991	30+	1976	9	62.9	1972	70	123	@	2.9	31.0	.0	.1	.0
Jun	85.6	62.7	74.2	103	1959	30	78.6	1981	38	1977	8	69.0	1972	9	283	.1	9.3	30.0	.0	.0	.0
Jul	89.5	67.5	78.5	104+	1990	10	84.6	1991	45	1975	2	75.0	1975	0	418	.9	17.6	31.0	.0	.0	.0
Aug	87.9	65.7	76.8	105	1980	1	81.4	1980	40	1976	31	72.7	1976	0	365	.5	13.0	31.0	.0	.0	.0
Sep	82.3	59.5	70.9	101	1993	1	75.7	1980	37	1981	24	66.9	1976	18	194	.1	4.6	30.0	.0	.0	.0
Oct	73.1	47.7	60.4	97	1954	6	67.3	1985	15	1962	27	53.5	1976	200	58	.0	.4	31.0	.0	1.4	.0
Nov	63.7	39.3	51.5	86+	1979	23	63.2	1985	13+	1976	9	42.0	1976	415	10	.0	.0	27.6	.0	8.5	.0
Dec	55.0	32.9	44.0	82	1978	4	51.1	1984	1	1958	16	33.2	1989	653	0	.0	.0	21.6	.4	14.6	.0
Ann	71.3	47.9	59.6	105	Aug 1980	1	84.6	Jul 1991	-5	Jan 1985	21	27.5	Jan 1977	3419	1475	1.6	48.6	327.6	2.4	68.8	.1

+ 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: 1954-2001

(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: LEWISTON, NC

COOP ID: 314962

Climate Division: NC 8

NWS Call Sign:

Elevation: 50 Feet

Lat: 36°08N

Lon: 77°10W

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	4.20	4.09	2.80	1960	31	8.19	1979	1.19	1981	11.7	7.6	3.1	.9	1.60	1.99	2.55	3.01	3.45	3.90	4.39	4.95	5.67	6.77	7.78
Feb	3.45	3.41	3.10	1998	4	7.11	1998	.77	1991	9.4	6.5	2.6	.8	1.23	1.56	2.03	2.42	2.80	3.18	3.60	4.09	4.71	5.68	6.56
Mar	4.08	3.76	2.92	1964	15	8.51	1994	1.39	1986	10.6	7.3	2.9	.8	1.63	2.01	2.54	2.98	3.39	3.82	4.27	4.80	5.47	6.49	7.42
Apr	3.10	2.92	2.34	1991	28	6.12	1989	.51	1985	9.1	6.0	2.1	.7	.90	1.20	1.64	2.02	2.40	2.79	3.22	3.72	4.38	5.41	6.36
May	4.04	3.53	3.78	1984	30	9.04	1984	.62	1997	11.0	6.9	2.6	.9	1.00	1.38	1.97	2.49	3.01	3.56	4.16	4.88	5.83	7.32	8.72
Jun	3.92	3.49	4.21	1965	12	8.24	1995	1.27+	1980	9.6	6.2	2.3	1.2	1.49	1.85	2.38	2.81	3.22	3.65	4.10	4.63	5.31	6.34	7.29
Jul	5.39	4.91	4.45	1991	29	13.62	1991	.82	1983	11.4	7.7	3.8	1.6	1.37	1.88	2.66	3.36	4.04	4.76	5.56	6.52	7.76	9.73	11.57
Aug	4.86	4.99	5.26	1955	12	13.36	1992	.77	1975	10.6	6.8	3.2	1.4	.94	1.38	2.09	2.75	3.42	4.13	4.94	5.92	7.22	9.30	11.27
Sep	5.10	3.98	8.24	1999	16	29.14	1999	.23	1981	8.6	5.8	2.8	1.6	.57	.96	1.67	2.38	3.14	3.99	4.99	6.23	7.92	10.71	13.43
Oct	3.21	2.62	6.35	1999	17	10.76	1971	.01	2000	7.4	4.3	2.1	.9	.29	.51	.94	1.39	1.88	2.43	3.09	3.91	5.05	6.94	8.80
Nov	2.72	2.46	4.75	1977	6	6.06	1977	.51	1981	8.2	5.1	2.1	.5	.64	.89	1.29	1.65	2.00	2.38	2.80	3.30	3.96	5.01	6.00
Dec	3.21	3.21	2.39	1986	24	7.38	1973	.58	1988	9.9	6.3	2.3	.6	.88	1.18	1.65	2.05	2.45	2.86	3.33	3.87	4.58	5.70	6.74
Ann	47.28	46.28	8.24	Sep 1999	16	29.14	Sep 1999	.01	Oct 2000	117.5	76.5	31.9	11.9	34.24	36.78	40.03	42.49	44.67	46.78	48.95	51.34	54.24	58.44	62.06

+ 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: 1954-2001

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

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Station: LEWISTON, NC

COOP ID: 314962

Climate Division: NC 8

NWS Call Sign:

Elevation: 50 Feet

Lat: 36°08N

Lon: 77°10W

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	.9	.0	#	0	5.2	1973	8	5.5	1980	5	1973	9	1	1973	.4	.3	.1	.1	.0	.6	.3	.1	.0
Feb	3.1	.0	#	0	11.5	1980	6	18.0	1980	11	1980	6	2	1980	.8	.8	.4	.2	.1	1.1	.6	.2	@
Mar	1.5	.0	#	0	9.0	1983	25	11.8	1980	12	1980	3	1	1980	.5	.4	.2	.1	.0	.3	.2	.2	.1
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	#	1987	11	#	1987	#	1987	11	#	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.5	1973	17	.5	1973	1	1973	17	#+	1982	.1	.0	.0	.0	.0	@	.0	.0	.0
Ann	5.5	.0	N/A	N/A	11.5	Feb 1980	6	18.0	Feb 1980	12	Mar 1980	3	2	Feb 1980	1.8	1.5	.7	.4	.1	2.0	1.1	.5	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 50 Feet

Lat: 36°08N

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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	5/08	5/02	4/27	4/23	4/20	4/16	4/12	4/07	4/01
32	4/29	4/22	4/17	4/12	4/08	4/03	3/30	3/24	3/17
28	4/14	4/06	4/01	3/27	3/23	3/18	3/13	3/08	2/28
24	4/05	3/27	3/21	3/16	3/11	3/06	2/28	2/22	2/13
20	3/20	3/11	3/04	2/26	2/21	2/16	2/10	2/03	1/25
16	2/24	2/16	2/10	2/05	1/31	1/26	1/20	1/10	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	10/02	10/08	10/12	10/16	10/20	10/23	10/27	10/31	11/06
32	10/12	10/19	10/23	10/27	10/30	11/03	11/07	11/11	11/18
28	10/18	10/26	11/01	11/06	11/11	11/16	11/21	11/27	12/06
24	10/28	11/07	11/14	11/21	11/26	12/02	12/09	12/16	12/26
20	11/17	11/28	12/05	12/12	12/18	12/24	12/31	1/07	1/18
16	12/05	12/16	12/24	12/31	1/07	1/14	1/23	2/05	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	212	202	194	188	182	176	170	163	153
32	237	226	218	211	205	199	192	184	173
28	271	258	249	240	233	225	217	208	194
24	303	288	278	269	260	252	242	232	217
20	352	329	316	306	297	288	279	268	254
16	>365	>365	>365	353	342	333	325	316	304

* 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	761	621	454	218	70	9	0	0	18	200	415	653	3419
60	618	487	308	115	23	1	0	0	3	113	284	508	2460
57	532	408	228	70	9	0	0	0	1	74	217	423	1962
55	476	357	181	47	5	0	0	0	0	53	179	369	1667
50	349	243	91	13	0	0	0	0	0	20	99	250	1065
32	62	24	1	0	0	0	0	0	0	0	1	24	112

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	324	327	570	795	1076	1264	1441	1388	1166	881	587	394	10213
55	25	17	38	152	368	574	728	675	476	221	74	26	3374
57	18	11	23	115	310	514	666	613	417	180	53	18	2938
60	11	6	10	70	231	424	573	520	329	126	30	10	2340
65	0	0	1	23	123	283	418	365	194	58	10	0	1475
70	0	0	0	5	51	161	273	219	87	20	2	0	818

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	155	191	374	594	865	1051	1215	1163	948	660	393	213	155	346	720	1314	2179	3230	4445	5608	6556	7216	7609	7822
45	82	110	246	449	710	901	1060	1008	798	508	266	122	82	192	438	887	1597	2498	3558	4566	5364	5872	6138	6260
50	38	59	145	309	555	751	905	853	648	358	165	67	38	97	242	551	1106	1857	2762	3615	4263	4621	4786	4853
55	14	25	77	193	403	601	750	698	498	221	87	32	14	39	116	309	712	1313	2063	2761	3259	3480	3567	3599
60	1	9	34	105	258	452	595	543	352	120	40	8	1	10	44	149	407	859	1454	1997	2349	2469	2509	2517
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	99	127	239	383	564	717	832	802	638	425	253	134	99	226	465	848	1412	2129	2961	3763	4401	4826	5079	5213

(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