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

COOP ID: 312837

Station: ENKA, NC

Climate Division: NC 3

NWS Call Sign:

Elevation: 2,050 Feet Lat: 35°32N Lon: 82°39W

									r	Гетр	eratui	re (°F)									
	Mea	n (1)						Extr	emes						Days (1) emp 65		Mean	Numb	er of I	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	.0	.0	.0	75	1957	29	.0	0	-8	1963	24	.0	0	0	0	.0	.0	9.2	3.2	25.0	.5
Feb	.0	.0	.0	78	1957	9	.0	0	-2	1958	17	.0	0	0	0	.0	.0	14.4	2.0	20.9	.1
Mar	.0	.0	.0	83	1954	25	.0	0	3+	1960	6	.0	0	0	0	.0	.0	25.5	.3	16.3	.1
Apr	.0	.0	.0	91	1957	23	.0	0	21+	1972	9	.0	0	0	0	.0	@	29.5	.0	1.8	.0
May	.0	.0	.0	93	1953	22	.0	0	30+	1973	18	.0	0	0	0	.0	.1	30.9	.0	.7	.0
Jun	.0	.0	.0	98+	1952	28	.0	0	40+	1972	11	.0	0	0	0	.0	1.6	30.0	.0	.0	.0
Jul	.0	.0	.0	99+	1952	29	.0	0	47	1963	11	.0	0	0	0	.0	1.9	31.0	.0	.0	.0
Aug	.0	.0	.0	99+	1975	13	.0	0	44	1968	29	.0	0	0	0	@	2.7	31.0	.0	.0	.0
Sep	.0	.0	.0	94	1953	1	.0	0	31	1967	30	.0	0	0	0	.0	.1	30.0	.0	.1	.0
Oct	.0	.0	.0	86+	1953	1	.0	0	18	1952	30	.0	0	0	0	.0	.0	30.8	.0	6.3	.0
Nov	.0	.0	.0	84	1958	17	.0	0	3	1950	26	.0	0	0	0	.0	.0	23.9	.1	14.7	.0
Dec	.0	.0	.0	77	1951	31	.0	0	-5	1962	13	.0	0	0	0	.0	.0	13.2	1.4	22.9	.1
Ann	.0	.0	.0	99+	Aug 1975	13	-99.9	0	-8	Jan 1963	24	99.9	0	0	0	@	6.4	299.4	7.0	108.7	.8

⁺ Also occurred on an earlier date(s)

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

Issue Date: February 2004 032-A

- (2) Derived from station's available digital record: 1948-2001
- (3) Derived from 1971-2000 serially complete daily data

[@] Denotes mean number of days greater than 0 but less than .05

⁽¹⁾ From the 1971-2000 Monthly Normals

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NWS Call Sign: Elevation: 2,050 Feet Lat: 35°32N Lon: 82°39W

										Pı	recipit	ation	(incl	nes)										
	Mea Medi		P	recipi	itatio	on Totals					ean North of Double Pres	ays (3)	Proba		Me	onthly/	annual j indic	orecipita ated am	ount vs Probal		els	less tha	n the
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	3.22	3.17	3.30	1995	15	9.01	1998	.47	1981	8.7	5.9	2.3	1.0	.88	1.18	1.65	2.05	2.45	2.87	3.34	3.88	4.60	5.72	6.77
Feb	3.55	3.55	3.44	1983	2	6.91	1982	.65	1988	7.6	5.7	2.2	.9	1.07	1.41	1.91	2.35	2.77	3.21	3.69	4.26	4.99	6.13	7.20
Mar	4.35	3.88	3.21	1979	4	9.21	1975	.74	1985	9.6	7.0	2.5	1.1	1.22	1.63	2.25	2.80	3.33	3.89	4.51	5.23	6.18	7.67	9.05
Apr	3.29	3.11	4.38	1957	5	7.55	1979	.68	1986	8.7	6.0	2.3	.8	.90	1.21	1.68	2.10	2.51	2.93	3.40	3.96	4.69	5.83	6.90
May	3.93	3.23	4.02	1976	29	10.52	1976	1.01	1988	9.9	6.9	2.7	.8	1.28	1.65	2.20	2.67	3.12	3.59	4.10	4.69	5.46	6.66	7.76
Jun	3.12	2.72	3.47	1972	21	8.86	1989	.77	1990	9.4	7.1	1.9	.7	.80	1.10	1.55	1.95	2.34	2.76	3.22	3.77	4.49	5.62	6.67
Jul	3.18	2.72	2.38	1970	22	6.70	1988	.68	1974	10.2	7.1	2.2	.7	1.03	1.33	1.78	2.16	2.52	2.90	3.32	3.80	4.42	5.39	6.29
Aug	3.54	3.23	4.58	1990	25	8.98	1990	.36	1998	9.3	6.4	2.3	.6	.51	.80	1.31	1.80	2.31	2.88	3.53	4.33	5.40	7.15	8.84
Sep	3.54	2.61	5.04	1977	7	9.70	1977	.00	1984	6.9	5.5	1.9	.9	.36	.78	1.37	1.88	2.41	2.97	3.60	4.37	5.38	7.02	8.58
Oct	2.43	2.23	2.93	1977	26	6.34	1995	.00	1991	6.3	4.6	1.8	.8	.10	.31	.67	1.02	1.41	1.84	2.35	2.99	3.87	5.32	6.75
Nov	3.05	2.90	3.56	1977	6	8.14	1979	.81	1981	7.7	5.1	2.0	.7	1.17	1.45	1.85	2.19	2.51	2.84	3.19	3.60	4.12	4.92	5.65
Dec	2.63	2.31	2.55	1983	12	7.28	1983	.25	1999	8.7	5.6	2.0	.7	.50	.73	1.12	1.48	1.84	2.23	2.67	3.21	3.92	5.06	6.14
Ann	39.83	40.55	5.04	Sep 1977	7	10.52	May 1976	.00+	Oct 1991	103.0	72.9	26.1	9.7	26.60	29.10	32.34	34.82	37.04	39.19	41.43	43.92	46.96	51.39	55.25

⁺ Also occurred on an earlier date(s)

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

[#] 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

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

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COOP ID: 312837

Station: ENKA, NC

Climate Division: NC 3 NWS Call Sign:

Elevation: 2,050 Feet Lat: 35°32N Lon: 82°39W

										Snov	w (incl	hes)											
						Sn	ow To	tals									Mea	ın Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ans (1)	1					Extre	mes (2)							ow Fa				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	0	4.5	1973	8	4.5	1973	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1971	4	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	#	0	4.0	1971	26	5.0	1971	4	1971	26	#	1971	.1	.1	@	.0	.0	.1	.1	.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	#	1971	10	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.9	.0	0	0	13.0	1971	4	16.0	1971	16	1971	4	1	1971	.2	.2	.1	@	@	.1	.1	@	@
Ann	1.6	.0	N/A	N/A	13.0	Dec 1971	4	16.0	Dec 1971	16	Dec 1971	4	1	Dec 1971	.4	.4	.2	@	@	.2	.2	@	@

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

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

[@] 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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COOP ID: 312837

Lon: 82°39W

Station: ENKA, NC

Climate Division: NC 3 NWS Call Sign:

WS Call Sign: Elevation: 2,050 Feet Lat: 35°32N

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	Day)			
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated((*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/26	5/18	5/12	5/07	5/02	4/27	4/22	4/16	4/08
32	5/14	5/05	4/28	4/23	4/18	4/12	4/07	3/31	3/22
28	4/16	4/11	4/07	4/03	3/31	3/28	3/25	3/21	3/15
24	3/31	3/27	3/24	3/22	3/19	3/17	3/15	3/12	3/08
20	3/23	3/17	3/13	3/09	3/05	3/02	2/26	2/21	2/15
16	3/18	3/09	3/03	2/25	2/20	2/15	2/09	2/02	1/22
			Fal	l Freeze Da	tes (Month/D	ay)			
Temp (F)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	d(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/22	9/26	9/29	10/02	10/04	10/06	10/09	10/11	10/16
32	9/29	10/03	10/06	10/09	10/11	10/14	10/16	10/19	10/24
28	10/08	10/13	10/17	10/20	10/23	10/26	10/29	11/02	11/07
24	10/23	10/29	11/02	11/06	11/10	11/13	11/17	11/22	11/28
20	10/27	11/07	11/15	11/22	11/29	12/05	12/12	12/20	12/31
16	11/15	11/26	12/04	12/10	12/17	12/23	12/30	1/08	1/21
				Freeze F	ree Period				
Temp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	180	171	165	159	154	149	144	138	129
32	204	194	187	182	176	171	165	158	148
28	220	215	211	208	205	202	199	196	191
24	257	249	244	239	235	230	225	220	212
20	289	280	274	269	264	260	255	249	241
16	>365	325	313	305	297	290	282	273	261

^{*} 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.

Complete documentation available from:

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COOP ID: 312837

Lon: 82°39W

Station: ENKA, NC

Climate Division: NC 3

Elevation: 2,050 Feet Lat: 35°32N

				Deg	ree Days t	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base						Coolin	g Degree I	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

										Gro	wing l	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Do													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	78	212	472	688	889	1036	997	762	476	212	77	46	124	336	808	1496	2385	3421	4418	5180	5656	5868	5945
45	19 35 110 322 533 739 881 842 612 329 113												19	54	164	486	1019	1758	2639	3481	4093	4422	4535	4570
50	0	13	45	183	378	589	726	687	462	198	47	10	0	13	58	241	619	1208	1934	2621	3083	3281	3328	3338
55	0	0	12	71	240	439	571	532	317	97	17	1	0	0	12	83	323	762	1333	1865	2182	2279	2296	2297
60	0 0 1 16 120 292 416 377 183 36 0											0	0	0	1	17	137	429	845	1222	1405	1441	1441	1441
Base	Growing Degree Units for Corn (Monthly)														Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)		
50/86	0/86 32 59 156 289 443 593 720 678 488 317 138 50											50	32	91	247	536	979	1572	2292	2970	3458	3775	3913	3963

(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

NWS Call Sign:

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.

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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