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: 255925

Lon: 99°20W

Station: NEWPORT, NE

Climate Division: NE 2

NWS Call Sign:

Temperature (°F)

Elevation: 2,230 Feet Lat: 42°36N

									Гетр	eratui	re (°F)										
Mea	n (1)						Extr	emes						•	Mean Number of Days (3)						
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	
32.0	10.0	21.0	72	1981	25	32.0	1992	-28+	1988	6	6.4	1979	1364	0	.0	.0	3.9	15.2	30.3	8.6	
38.0	15.7	26.9	78	1982	23	36.3	1999	-29	1996	2	13.5	1978	1068	0	.0	.0	6.9	10.9	26.3	4.6	
47.4	24.8	36.1	86+	1978	31	42.2	1986	-20+	1998	11	28.3	1996	896	0	.0	.0	13.9	5.2	23.7	.8	
59.0	35.7	47.4	96	1989	23	55.6	1981	4	1975	3	41.2	1995	531	2	.0	.4	22.5	.7	10.9	.0	
70.5	47.2	58.9	102	1967	26	65.0	1977	18	1967	3	53.3	1995	224	32	.0	.6	30.0	.0	1.1	.0	
81.3	56.5	68.9	107	1988	22	76.4	1988	34+	1969	14	63.7	1982	45	161	.5	5.9	29.9	.0	.0	.0	
87.7	61.8	74.8	112	1954	13	80.3	1974	41+	1971	30	67.0	1992	7	308	2.4	13.4	31.0	.0	.0	.0	
86.2	60.0	73.1	107+	1987	1	79.4	1983	37	1964	12	67.3	1992	16	267	1.2	11.5	31.0	.0	.0	.0	
76.6	49.7	63.2	102+	1984	20	69.8	1998	22	1989	23	58.2	1993	126	70	.3	4.9	29.5	.0	1.1	.0	
63.3	37.2	50.3	97	1963	5	54.8	1973	7	1997	27	46.0	1987	457	0	.0	.5	26.0	.4	8.8	.0	
45.2	24.0	34.6	84+	1999	8	45.2	1999	-19	1959	14	21.0	1985	913	0	.0	.0	11.8	6.2	24.2	1.2	
35.2	13.6	24.4	73	1998	3	32.4	1979	-32	1989	22	6.5	1983	1258	0	.0	.0	5.4	12.8	30.0	5.2	
60.2	36.4	48 3	112	Jul 1954	13	80.3	Jul 1974	-32	Dec 1989	22	6.4	Jan	6905	840	4.4	37.2	241.8	51.4	156.4	20.4	
	Daily Max 32.0 38.0 47.4 59.0 70.5 81.3 87.7 86.2 76.6 63.3 45.2	Max Min 32.0 10.0 38.0 15.7 47.4 24.8 59.0 35.7 70.5 47.2 81.3 56.5 87.7 61.8 86.2 60.0 76.6 49.7 63.3 37.2 45.2 24.0 35.2 13.6	Daily Max Daily Min Mean 32.0 10.0 21.0 38.0 15.7 26.9 47.4 24.8 36.1 59.0 35.7 47.4 70.5 47.2 58.9 81.3 56.5 68.9 87.7 61.8 74.8 86.2 60.0 73.1 76.6 49.7 63.2 63.3 37.2 50.3 45.2 24.0 34.6 35.2 13.6 24.4	Daily Max Daily Min Mean Mean Mean Mean Daily(2) Highest Daily(2) 32.0 10.0 21.0 72 38.0 15.7 26.9 78 47.4 24.8 36.1 86+ 59.0 35.7 47.4 96 70.5 47.2 58.9 102 81.3 56.5 68.9 107 87.7 61.8 74.8 112 86.2 60.0 73.1 107+ 76.6 49.7 63.2 102+ 63.3 37.2 50.3 97 45.2 24.0 34.6 84+ 35.2 13.6 24.4 73	Daily Max Daily Min Mean Highest Daily(2) Year 32.0 10.0 21.0 72 1981 38.0 15.7 26.9 78 1982 47.4 24.8 36.1 86+ 1978 59.0 35.7 47.4 96 1989 70.5 47.2 58.9 102 1967 81.3 56.5 68.9 107 1988 87.7 61.8 74.8 112 1954 86.2 60.0 73.1 107+ 1987 76.6 49.7 63.2 102+ 1984 63.3 37.2 50.3 97 1963 45.2 24.0 34.6 84+ 1999 35.2 13.6 24.4 73 1998	Daily Max Daily Min Mean Highest Daily(2) Year Day 32.0 10.0 21.0 72 1981 25 38.0 15.7 26.9 78 1982 23 47.4 24.8 36.1 86+ 1978 31 59.0 35.7 47.4 96 1989 23 70.5 47.2 58.9 102 1967 26 81.3 56.5 68.9 107 1988 22 87.7 61.8 74.8 112 1954 13 86.2 60.0 73.1 107+ 1987 1 76.6 49.7 63.2 102+ 1984 20 63.3 37.2 50.3 97 1963 5 45.2 24.0 34.6 84+ 1999 8 35.2 13.6 24.4 73 1998 3 Jul	Daily Max Daily Min Mean Highest Daily(2) Year Day Highest Month(1) Mean 32.0 10.0 21.0 72 1981 25 32.0 38.0 15.7 26.9 78 1982 23 36.3 47.4 24.8 36.1 86+ 1978 31 42.2 59.0 35.7 47.4 96 1989 23 55.6 70.5 47.2 58.9 102 1967 26 65.0 81.3 56.5 68.9 107 1988 22 76.4 87.7 61.8 74.8 112 1954 13 80.3 86.2 60.0 73.1 107+ 1987 1 79.4 76.6 49.7 63.2 102+ 1984 20 69.8 63.3 37.2 50.3 97 1963 5 54.8 45.2 24.0 34.6 84+ 1999 8	Daily Max Daily Min Mean Highest Daily(2) Year Day Highest Month(1) Mean Year Mean 32.0 10.0 21.0 72 1981 25 32.0 1992 38.0 15.7 26.9 78 1982 23 36.3 1999 47.4 24.8 36.1 86+ 1978 31 42.2 1986 59.0 35.7 47.4 96 1989 23 55.6 1981 70.5 47.2 58.9 102 1967 26 65.0 1977 81.3 56.5 68.9 107 1988 22 76.4 1988 87.7 61.8 74.8 112 1954 13 80.3 1974 86.2 60.0 73.1 107+ 1987 1 79.4 1983 76.6 49.7 63.2 102+ 1984 20 69.8 1998 63.3 37.2 50.3	Daily Max Daily Min Mean Min Highest Daily(2) Year Day Day Mount(1) Mean Mean Year Daily(2) Lowest Daily(2) 32.0 10.0 21.0 72 1981 25 32.0 1992 -28+ 38.0 15.7 26.9 78 1982 23 36.3 1999 -29 47.4 24.8 36.1 86+ 1978 31 42.2 1986 -20+ 59.0 35.7 47.4 96 1989 23 55.6 1981 4 70.5 47.2 58.9 102 1967 26 65.0 1977 18 81.3 56.5 68.9 107 1988 22 76.4 1988 34+ 87.7 61.8 74.8 112 1954 13 80.3 1974 41+ 86.2 60.0 73.1 107+ 1987 1 79.4 1983 37 76.6 49.7 63.2	Daily Max Daily Mean Highest Daily(2) Year Day Month(1) Mean Mean Highest Daily(2) Year Day Month(1) Mean M	Daily Max Daily Min Mean Highest Daily(2) Vear Day Day Mean Highest Month(1) Mean Mean Daily(2) Vear Day	Daily Max Daily Min Mean Highest Daily(2) Year Day Day Mean Highest Month(1) Mean Year Daily(2) Year Day Day Daily(2) Year Day Day Daily(2) Year Day	Daily Max Mean Highest Daily(2) Year Day Mean Highest Daily(2) Year Day Mean Year Mean Year Daily(2) Year Day Mean Year Mean Year Day Mean Year	Daily Max Mean Highest Daily(2) Vear Day Highest Daily(2) Vear D	Name	Near 1 Near 1 Near Near	Mean Mean	Daily Max Daily Min Mean Highest Daily(2) Year Day Mean Mean	Mean Cooling Max Max	Near Color Color	

⁺ Also occurred on an earlier date(s)

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

Issue Date: February 2004 078-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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COOP ID: 255925

Station: NEWPORT, NE

Climate Division: NE 2 NWS Call Sign: Elevation: 2,230 Feet Lat: 42°36N Lon: 99°20W

										Pı	recipit	tation	(incl	nes)										
	Mo	ans/	P	recip	itatio	on Total	s			M	ean N	Numbo Pays (3		Proba	ability th		nonthly/	annual j	precipita ated an		ll be equ		· less tha	ın the
		ans(1)				Extreme	S			D	aily Pre	cipitatio	n		Th				_	incomplet			ion	
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	.52	.38	1.18	1988	19	1.67	1988	.02	1981	5.4	1.7	.1	@	.08	.13	.20	.27	.35	.43	.52	.63	.78	1.02	1.25
Feb	.75	.57	1.55	1971	19	2.43	1984	.02	1982	5.6	2.1	.2	@	.06	.11	.20	.31	.42	.55	.71	.91	1.19	1.65	2.11
Mar	1.64	1.27	2.02	1949	30	5.58	1987	.26	1994	7.9	3.7	1.0	.3	.24	.37	.61	.84	1.07	1.34	1.64	2.01	2.50	3.31	4.09
Apr	2.38	2.31	2.45	1968	20	5.15	1978	.41	1989	10.3	5.7	1.5	.3	.62	.84	1.19	1.49	1.79	2.11	2.45	2.87	3.41	4.26	5.06
May	3.88	3.29	3.60	1964	3	8.64	1995	1.18	1989	11.9	7.0	2.6	1.1	1.43	1.80	2.32	2.76	3.17	3.60	4.06	4.60	5.28	6.34	7.30
Jun	3.66	2.95	5.91	1994	18	8.57	1994	1.37	1988	11.5	6.3	2.1	.9	1.22	1.57	2.08	2.51	2.92	3.35	3.82	4.36	5.06	6.15	7.15
Jul	3.69	3.24	3.44	1978	21	11.97	1993	.42	1991	10.8	6.1	2.5	.9	.85	1.20	1.74	2.22	2.70	3.21	3.79	4.47	5.37	6.79	8.14
Aug	2.25	1.93	4.18	1988	4	7.10	1992	.04	2000	8.6	4.2	1.4	.5	.25	.42	.74	1.05	1.39	1.76	2.20	2.75	3.50	4.73	5.93
Sep	2.63	2.21	3.05	1999	4	7.97	1986	.20	1980	8.0	4.4	1.8	.8	.27	.46	.82	1.19	1.59	2.03	2.56	3.21	4.11	5.60	7.05
Oct	1.80	1.55	2.15	1982	9	6.06	1982	.15	1999	6.6	3.7	1.2	.4	.20	.34	.59	.84	1.11	1.41	1.76	2.19	2.79	3.76	4.72
Nov	1.21	1.09	1.97	1972	2	3.07	1979	.05	1980	6.4	2.7	.7	.2	.12	.20	.37	.54	.72	.93	1.17	1.48	1.90	2.59	3.28
Dec	.63	.49	1.44	1981	1	2.37	1982	.00	1991	5.4	2.0	.2	.1	.03	.09	.18	.28	.38	.49	.62	.78	1.00	1.36	1.71
Ann	25.04	25.98	5.91	Jun 1994	18	11.97	Jul 1993	.00	Dec 1991	98.4	49.6	15.3	5.5	15.55	17.29	19.57	21.34	22.93	24.49	26.12	27.94	30.18	33.47	36.35

⁺ 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: 255925

Station: NEWPORT, NE

Climate Division: NE 2 NWS Call Sign: Elevation: 2,230 Feet Lat: 42°36N Lon: 99°20W

										Snov	w (inc	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ians (1)	1					Extre	mes (2)							ow Fa				Snow = Thr		
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	6.0	4.6	4	3	14.0	1988	19	19.6	1988	25	1988	22	15	1988	5.3	1.9	.4	.1	@	18.5	13.6	9.8	3.3
Feb	6.2	5.1	4	3	7.4	1984	12	24.1	1984	20	1979	10	16	1979	4.7	2.0	.7	.2	.0	14.6	10.5	7.6	3.3
Mar	8.4	6.4	2	1	13.4	1987	24	26.6	1987	16	1987	26	7	1978	5.0	2.6	1.0	.3	.1	8.7	5.1	3.3	.9
Apr	5.4	2.9	#	#	13.0	1984	3	24.5	1995	12	1995	12	2	1995	2.1	1.3	.7	.4	.1	2.2	1.2	.7	.1
May	#	.0	#	0	#	1996	1	#+	1996	#+	1994	1	#+	1994	.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	.3	.0	#	0	3.2	1985	29	3.2	1985	2	1985	29	#+	1985	.1	.1	@	.0	.0	.1	.0	.0	.0
Oct	2.0	.4	#	#	7.4	1979	22	13.6	1995	9	1995	24	1	1995	1.1	.6	.3	.1	.0	.9	.3	.1	.0
Nov	8.0	6.2	2	1	13.0	1972	2	32.7	1979	20	1979	23	8	1985	4.2	2.2	.8	.4	.1	8.5	5.1	2.8	1.3
Dec	7.3	5.5	3	2	9.8	1981	1	19.8	1982	26	1983	31	20	1983	5.0	2.2	.7	.3	.0	16.4	11.1	6.2	2.7
Ann	43.6	31.1	N/A	N/A	14.0	Jan 1988	19	32.7	Nov 1979	26	Dec 1983	31	20	Dec 1983	27.5	12.9	4.6	1.8	.3	69.9	46.9	30.5	11.6

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

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[@] 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: 255925

Station: NEWPORT, NE

Climate Division: NE 2 NWS Call Sign:

Elevation: 2,230 Feet Lat: 42°36N Lon: 99°20W

				Freez	ze 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((*)	
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/23	5/19	5/15	5/13	5/10	5/07	5/04	5/01	4/27
32	5/13	5/09	5/06	5/03	5/01	4/29	4/26	4/23	4/19
28	5/07	5/02	4/29	4/26	4/24	4/21	4/18	4/15	4/10
24	4/26	4/21	4/17	4/14	4/11	4/08	4/05	4/02	3/28
20	4/15	4/10	4/07	4/05	4/02	3/30	3/28	3/24	3/20
16	4/10	4/03	3/30	3/26	3/22	3/18	3/14	3/09	3/03
			Fal	l Freeze Da	tes (Month/D	ay)			
Tomp (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	9/11	9/15	9/18	9/20	9/22	9/25	9/27	9/30	10/04
32	9/13	9/19	9/24	9/27	10/01	10/04	10/08	10/12	10/18
28	9/26	10/01	10/05	10/08	10/11	10/14	10/18	10/22	10/27
24	10/03	10/08	10/12	10/16	10/19	10/22	10/25	10/29	11/04
20	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
16	10/22	10/28	11/01	11/04	11/08	11/11	11/14	11/18	11/24
•				Freeze F	ree Period			•	1
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	145	141	138	135	132	128	124	119
32	174	166	161	156	152	147	143	137	130
28	192	184	179	174	170	166	161	155	148
24	214	206	200	194	190	185	180	174	165
20	229	223	218	213	209	205	201	196	189
16	259	249	242	236	230	224	218	211	201

^{*} 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.

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Climate Division: NE 2 NWS Call Sign: Elevation: 2,230 Feet Lat: 42°36N Lon: 99°20W

				Deg	ree Days to	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	1364	1068	896	531	224	45	7	16	126	457	913	1258	6905
60	1209	928	741	389	122	13	0	3	53	306	763	1103	5630
57	1116	849	648	310	78	5	0	1	26	223	675	1010	4941
55	1056	798	587	262	55	2	0	0	15	174	620	948	4517
50	912	667	442	158	18	0	0	0	2	81	482	804	3566
32	436	278	79	5	0	0	0	0	0	1	128	336	1263

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	95	134	206	466	831	1106	1324	1274	934	568	205	101	7244
55	2	10	1	33	173	418	611	561	259	28	8	0	2104
57	0	5	0	21	134	361	549	500	210	14	3	0	1797
60	0	0	0	10	85	279	456	409	147	4	0	0	1390
65	0	0	0	2	32	161	308	267	70	0	0	0	840
70	0	0	0	0	8	77	177	150	26	0	0	0	438

										Gro	wing]	Degre	e Uni	ts (2)										
Base					Growing	g Degree	Units (N	(Ionthly)					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	9	34	102	279	598	874	1085	1036	703	359	83	14	9	43	145	424	1022	1896	2981	4017	4720	5079	5162	5176
45	0 9 50 177 447 724 930 881 557 237 42											1	0	9	59	236	683	1407	2337	3218	3775	4012	4054	4055
50	0 1 21 101 307 574 775 726 416 139 17											0	0	1	22	123	430	1004	1779	2505	2921	3060	3077	3077
55	0	0	5	52	190	429	620	571	289	67	4	0	0	0	5	57	247	676	1296	1867	2156	2223	2227	2227
60	0	0	1	23	98	291	466	418	179	25	0	0	0	0	1	24	122	413	879	1297	1476	1501	1501	1501
Base	Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)	•		
50/86	/ 86 13 35 82 180 361 560 712 673 443 239 69 2											20	13	48	130	310	671	1231	1943	2616	3059	3298	3367	3387

(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.

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