

Monthly Station Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971 - 2000

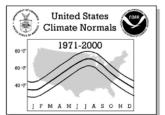




# 21 MINNESOTA



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

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# **United States** Climate Normals 1971-2000 J F M A M J J A S O N D

#### CLIMATOGRAPHY OF THE UNITED STATES NO. 81

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

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#### **NOTES**

#### **Product Description:**

This Climatography includes 1971-2000 normals of monthly and annual maximum, minimum, and mean temperature (degrees F), monthly and annual total precipitation (inches), and heating and cooling degree days (base 65 degrees F). Normals stations include both National Weather Service Cooperative Network and Principal Observation (First-Order) locations in the 50 states, Puerto Rico, the Virgin Islands, and Pacific Islands.

#### Abbreviations:

No. = Station Number in State Map

WBAN ID = Weather Bureau Army Navy ID, if assigned

**Elements** = Input Elements (X=Maximum Temperature,

N=Minimum Temperature, P=Precipitation)

Call = 3-Letter Station Call Sign, if assigned

MAX = Normal Maximum Temperature (degrees Fahrenheit)

MEAN = Average of MAX and MIN (degrees Fahrenheit)

MIN = Normal Minimum Temperature (degrees Fahrenheit)

HDD = Total Heating Degree Days (base 65 degrees Fahrenheit)

CDD = Total Cooling Degree Days (base 65 degrees Fahrenheit)

Latitude = Latitude in degrees, minutes, and hemisphere (N=North, S=South) COOP ID = Cooperative Network ID (1:2=State ID, 3:6=Station Index) Longitude = Longitude in degrees, minutes, and hemisphere (W=West, E=East)

Elev = Elevation in feet above mean sea level

Flag 1 = \* if a published Local Climatological Data station

Flag 2 = + if WMO Fully Qualified (see *Note* below)

HIGHEST MEAN/YEAR = Maximum Mean Monthly Value/Year, 1971-2000

MEDIAN = Median Mean Monthly Value/Year, 1971-2000

LOWEST MEAN/YEAR = Minimum Mean Monthly Value/Year, 1971-2000 MAX OBS TIME ADJUSTMENT = Add to MAX to Get Midnight Obs. Schedule

MIN OBS TIME ADJUSTMENT = Add to MIN to Get Midnight Obs. Schedule

Note: In 1989, the World Meteorological Organization (WMO) prescribed standards of data completeness for the 1961-1990 WMO Standard Normals. For full qualification, no more than three consecutive year-month values can be missing for a given month or no more than five overall values can be missing for a given month (out of 30 values). Stations meeting these standards are indicated with a '+' sign in Flag 2. Otherwise, stations are included in the normals if they have at least 10 year-month values for each month and have been active since January 1999 or were a previous normals station.

Map Legend: Numbers correspond to 'No.' in Station Inventory; Shaded Circles indicate Temperature and Precipitation Stations, Triangles (Point Up) indicate Precipitation-Only Stations, Triangles (Point Down) indicate Temperature-Only Stations, and Hexagons indicate stations with Flag 1 = \*.

#### Computational Procedures:

A climate normal is defined, by convention, as the arithmetic mean of a climatological element computed over three consecutive decades (WMO,1989). Ideally, the data record for such a 30-year period should be free of any inconsistencies in observational practices (e.g., changes in station location, instrumentation, time of observation, etc.) and be serially complete (i.e., no missing values). When present, inconsistencies can lead to a nonclimatic bias in one period of a station's record relative to another, yielding an "inhomogeneous" data record. Adjustments and estimations can make a climate record "homogeneous" and serially complete, and allow a climate normal to be calculated simply as the average of the 30 monthly values.

The methodology employed to generate the 1971-2000 normals is not the same as in previous normals, as it addresses inhomogeneity and missing data value problems using several steps. The technique developed by Karl et al. (1986) is used to adjust monthly maximum and minimum temperature observations of conterminous U.S. stations to a consistent midnight-to-midnight schedule. All monthly temperature averages and precipitation totals are cross-checked against archived daily observations to ensure internal consistency. Each monthly observation is evaluated using a modified quality control procedure (Peterson et al., 1998), where station observation departures are computed, compared with neighboring stations, and then flagged and estimated where large differences with neighboring values exist. Missing or discarded temperature and precipitation observations are replaced using a weighting function derived from the observed relationship between a candidate's monthly observations and those of up to 20 neighboring stations whose observations are most strongly correlated with the candidate site. For temperature estimates, neighboring stations were selected from the U.S. Historical Climatology Network (USHCN; Karl et al. 1990). For precipitation estimates, all available stations were potential neighbors, maximizing station density for estimating the more spatially variable precipitation values.

Peterson and Easterling (1994) and Easterling and Peterson (1995) outline the method for adjusting temperature inhomogeneities. This technique involves comparing the record of the candidate station with a reference series generated from neighboring data. The reference series is reconstructed using a weighted average of first difference observations (the difference from one year to the next) for neighboring stations with the highest correlation with the candidate. The underlying assumption behind this methodology is that temperatures over a region have similar tendencies in variation. If this assumption is violated, the potential discontinuity is evaluated for statistical significance. Where significant discontinuities are detected, the difference in average annual temperatures before and after the inhomogeneity is applied to adjust the mean of the earlier block with the mean of the latter block of data. Such an evaluation requires a minimum of five years between discontinuities. Consequently, if multiple changes occur within five years or if a change occurs very near the end of the normals period (e.g., after 1995), the discontinuity may not be detectable using this methodology.

The monthly normals for maximum and minimum temperature and precipitation are computed simply by averaging the appropriate 30 values from the 1971-2000 record. The monthly average temperature normals are computed by averaging the corresponding monthly maximum and minimum normals. The annual temperature normals are calculated by taking the average of the 12 monthly normals. The annual precipitation and degree day normals are the sum of the 12 monthly normals. Trace precipitation totals are shown as zero. Precipitation totals include rain and the liquid equivalent of frozen and freezing precipitation (e.g., snow, sleet, freezing rain, and hail). For many NWS locations, indicated with an '\*' next to 'HDD' and 'CDD' in the degree day table, degree day normals are computed directly from daily values for the 1971-2000 period. For all other stations, estimated degree day totals are based on a modification of the rational conversion formula developed by Thom (1966), using daily spline-fit means and standard deviations of average temperature as inputs.

Easterling, D.R, and T.C. Peterson, 1995: A new method for detecting and adjusting for undocumented discontinuities in climatological time series. Intl. J. Clim., 15, 369-377. Karl, T.R., C.N. Williams, Jr., P.J. Young, and W.M. Wendland, 1986: A model to estimate the time of observation bias associated with monthly mean maximum, minimum, and mean temperatures for the United States, J. Clim. Appl. Met., 25, 145-160.

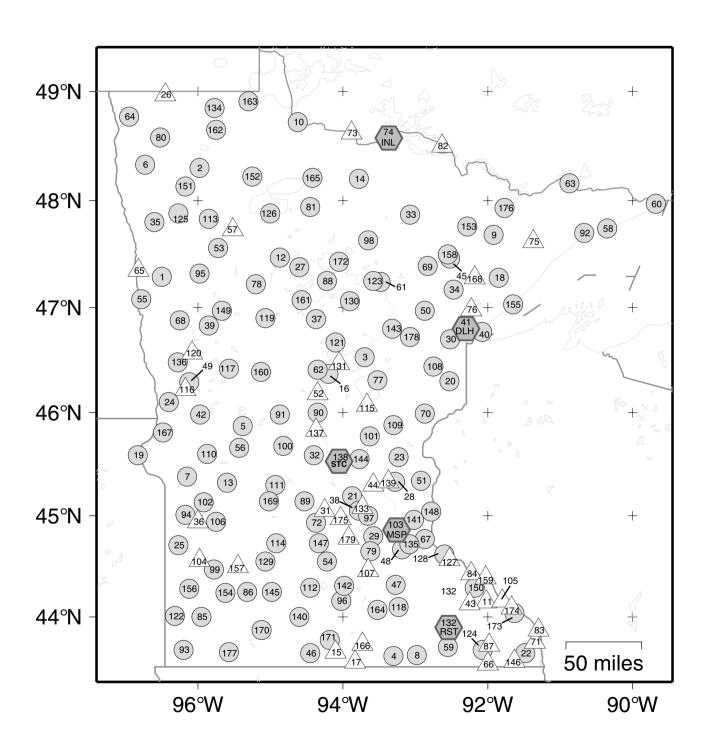
Peterson, T.C., and D.R. Easterling, 1994: Creation of homogeneous composite climatological reference series. Intl. J. Clim., 14, 671-679.

Peterson, T.C., R. Vose, R. Schmoyer, and V. Razuvaev, 1998: Global Historical Climatology Network (GHCN) quality control of monthly temperature data. Intl. J. Clim., 18, 1169-1179. Thom, H.C.S., 1966: Normal degree days above any base by the universal truncation coefficient, Month. Wea. Rev., 94, 461-465.

World Meteorological Organization, 1989: Calculation of Monthly and Annual 30-Year Standard Normals, WCDP-No. 10, WMO-TD/No. 341, Geneva: World Meteorological Organization.

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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	COOP ID	WBAN ID	Elements	STATION INVE		Latitude	Longitude	Elev	Flag 1 Flag 2
1	210018		XNP	ADA			96 31 W	910	+
2	210050		XNP	AGASSIZ REFUGE			95 59 W		+
3	210059		XNP	AITKIN 2 E				1215	+
4	210075		XNP	ALBERT LEA 3 SE		43 37 N		1230	+
5 6	210112 210252	14910	XNP XNP	ALEXANDRIA CHANDLER AP ARGYLE 4 E	AXN	45 52 N 48 20 N	95 24 W 96 44 W	870	+
7	210232		XNP	ARTICHOKE LAKE			96 09 W		+
8	210355		XNP	AUSTIN 3 S		43 37 N		1215	
9	210390		XNP	BABBITT 2 SE		47 41 N	91 55 W	1615	
10	210515		XNP	BAUDETTE		48 43 N		1075	+
11 12	210559 210643	14958	P XNP	BEAVER BEMIDJI		44 09 N 47 28 N	92 01 W 94 53 W	722 1350	
13	210667	11750	XNP	BENSON			95 37 W		+
14	210746		XNP	BIG FALLS		48 12 N	93 48 W		
15	210852		P	BLUE EARTH			94 06 W		+
16	210939		XNP	BRAINERD		46 22 N	94 12 W		+
17 18	210981 210989		P XNP	BRICELYN BRIMSON 1 E		43 33 N 47 17 N	93 51 W 91 51 W	1515	_
19	211063		XNP	BROWNS VALLEY		47 17 N 45 36 N	96 50 W	990	+
20	211074		XNP	BRUNO 7 ENE		46 18 N	92 32 W	845	
21	211107		XNP	BUFFALO		45 11 N	93 52 W	980	+
22	211198		XNP	CALEDONIA		43 38 N	91 30 W		<u>+</u>
23 24	211227 211245		XNP XNP	CAMBRIDGE STATE HOSP CAMPBELL		45 34 N 46 06 N	93 15 W 96 25 W	960 972	+
25	211245		XNP				96 25 W		+
26	211303		P	CARIBOU 2 S		48 58 N		1020	+
27	211374		XNP	CASS LAKE			94 37 W		+
28	211390		XNP	CEDAR			93 17 W	907	+
29 30	211465 211630		XNP XNP	CHASKA CLOQUET		44 48 N 46 42 N	93 35 W 92 32 W	720 1265	+
31	211669		P	COKATO			94 15 W		+
32	211691		XNP	COLLEGEVILLE ST JOHN			94 24 W		+
33	211776		XNP	COOK 18 W			93 04 W		
34	211840		XNP	COTTON			92 28 W		
35 36	211891 212038		XNP P	CROOKSTON NW EXP STN DAWSON			96 36 W	888 1055	+
37	212050		XNP	DEEP PORTAGE		46 53 N		1471	·
38	212088		XNP	DELANO		45 03 N	93 48 W	930	
39	212142		XNP	DETROIT LAKES 1 NNE			95 51 W		+
40	212246 212248	14913	XNP XNP	DULUTH HARBOR STA DULUTH INTL AP	חוח	46 46 N	92 05 W 92 13 W	610	* +
42	212476	14713	XNP	ELBOW LAKE	БПП		95 58 W		'
43	212486		P	ELGIN			92 16 W		+
44	212500		P	ELK RIVER			93 35 W	910	+
45	212645		XNP	EVELETH WASTE WATER PLT					
46 47	212698 212721		XNP XNP	FAIRMONT FARIBAULT			94 28 W 93 17 W		+
48	212721		XNP	FARMINGTON 3 NW			93 11 W	980	+
49	212768		XNP	FERGUS FALLS		46 18 N	96 07 W		+
50	212842		XNP	FLOODWOOD 3 NE			92 52 W		
51 52	212881 212904		XNP P	FOREST LAKE 5 NE FORT RIPLEY			92 55 W 94 22 W		+
53	212904		XNP	FORT RIPLEY FOSSTON 1 E			94 22 W		+
54	213076		XNP	GAYLORD			94 13 W		+
55	213104		XNP	GEORGETOWN 1 E			96 47 W		+
56	213174		XNP	GLENWOOD 2 WNW			95 27 W		+
57 58	213206 213282	94954	P XNP	GONVICK 2 W GRAND MARAIS			95 31 W 90 22 W	1436 612	+
59	213202	J 1JJT	XNP	GRAND MEADOW		43 42 N	92 34 W	1350	+
60	213296		XNP	GRAND PORTAGE RNG STN		47 58 N	89 41 W	730	
61	213303		XNP	GRAND RAPIDS FOREST LAB		47 15 N	93 30 W	1310	<u>+</u>
62 63	213411		XNP	GULL LAKE DAM GUNFLINT LAKE 10 NW		46 25 N	94 22 W 90 53 W	1215	+
64	213417 213455		XNP XNP	HALLOCK			90 53 W 96 57 W		
65	213463		P	HALSTAD			96 50 W		+
66	213520		P	HARMONY		43 32 N	92 00 W	1350	+
67	213567		XNP	HASTINGS DAM 2			92 52 W		
68 69	213587 213730	94931	XNP XNP	HAWLEY 3 NE HIBBING CHISHOLM AP	нтр		96 15 W		+
70	213730	J 1J J ⊥	XNP	HINCKLEY	IIID		92 50 W		+

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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	COOP ID	WBAN ID	Elements	Station Name		Latitude	Longitude	Elev	Flag 1	Flag 2	
71	213808		P	нокан 1 S		43 45 N	91 21 W	700			
72	213962		XNP	HUTCHINSON 1 N		44 56 N		1095		+	
73 74	214008 214026	14918	P XNP	INDUS 3 W INTL FALLS AP	T NIT.	48 37 N	93 54 W 93 24 W	1095 1179	*	+	
75	214020	14910	P	ISABELLA 1 W	TIME	47 37 N	91 23 W	2010		т	
76	214096		P	ISLAND LAKE RESERVOIR		46 59 N	92 14 W	1372			
77	214103		XNP	ISLE 12 N		46 19 N	93 32 W	1285			
78	214106		XNP	ITASCA UNIV OF MINNESOTA		47 13 N	95 12 W	1490		+	
79	214176		XNP	JORDAN 1 S		44 39 N	93 37 W	930		+	
80 81	214213 214233		XNP XNP	KARLSTAD KELLIHER		48 35 N 47 57 N	96 31 W 94 27 W	1067 1390			
82	214306		P	KETTLE FALLS		48 30 N	92 39 W	1122			
83	214418		P	LA CRESCENT DAM 7		43 52 N	91 18 W	647			
84	214438		P	LAKE CITY DNR		44 26 N	92 15 W	675			
85	214534		XNP	LAKE WILSON				1650		+	
86 87	214546 214563		XNP P	LAMBERTON SW EXP STN LANESBORO		44 15 N 43 43 N	95 19 W 91 59 W	1144 975		+	
88	214503		XNP	LEECH LAKE DAM		47 15 N		1302		+	
89	214778		XNP	LITCHFIELD		45 08 N		1132		+	
90	214793		XNP	LITTLE FALLS 1 N		46 00 N	94 21 W	1120		+	
91	214861		XNP	LONG PRAIRIE		45 59 N		1290		+	
92	214918		XNP	LUTSEN 3 NNE		47 42 N 43 40 N		1300		_	
93 94	214937 214994		XNP XNP	LUVERNE MADISON SEWAGE PLANT		43 40 N 45 00 N	96 12 W 96 11 W	1500 1080		+	
95	215012		XNP	MAHNOMEN 1 W		47 19 N		1203		+	
96	215073		XNP	MANKATO			94 01 W	850			
97	215136		XNP	MAPLE PLAIN		45 00 N	93 39 W	970			
98	215175		XNP	MARCELL 5 NE		47 38 N		1387			
99 100	215204 215325		XNP XNP	MARSHALL MELROSE		44 28 N 45 41 N	95 47 W 94 50 W	1152 1210		+	
101	215325		XNP	MILACA		45 41 N	93 38 W	1102		+	
102	215400		XNP	MILAN 1 NW		45 08 N	95 56 W	1020		+	
103	215435	14922	XNP	MINNEAPOLIS INTL AP	MSP	44 53 N	93 14 W	834	*	+	
104	215482		P	MINNEOTA				1170		+	
105 106	215488 215563		P XNP	MINNESOTA CITY DAM 5 MONTEVIDEO 1 SW		44 10 N 44 56 N	91 49 W 95 45 W	670 985		+	
107	215571		ANP P	MONTGOMERY		44 28 N	93 40 W	1100		т	
108	215598		XNP	MOOSE LAKE 1 SSE		46 26 N	92 45 W	1110		+	
109	215615		XNP	MORA		45 53 N	93 18 W	1005		+	
110	215638		XNP	MORRIS WC EXP STN		45 36 N	95 53 W	1140		+	
111 112	215842		XNP XNP	NEW LONDON		45 18 N 44 18 N	94 57 W	1240 860		+	
113	215887 216148		XNP	NEW ULM 2 SE OKLEE		44 16 N 47 50 N	94 27 W 95 51 W	1150		+	
114	216152		XNP	OLIVIA 3 SE		44 44 N	94 56 W				
115	216166		P	ONAMIA RANGER STATION		46 04 N	93 40 W	1260			
116	216228		P	ORWELL DAM			96 11 W				
117	216276		XNP	OTTERTAIL			95 34 W			+	
118 119	216287 216360	94967	XNP XNP	OWATONNA PARK RAPIDS 2 S			93 14 W 95 04 W			+	
120	216405	2 2 2 0 7	P	PARK RAPIDS 2 S PELICAN RAPIDS			96 05 W				
121	216547		XNP	PINE RIVER DAM			94 07 W			+	
122	216565		XNP	PIPESTONE			96 20 W			+	
123	216612		XNP	POKEGAMA DAM			93 35 W				
124 125	216654 216787		XNP XNP	PRESTON RED LAKE FALLS			92 04 W 96 17 W			+	
126	216795		XNP	RED LAKE INDIAN AGENCY			95 01 W			+	
127	216817		P	RED WING			92 32 W	688		+	
128	216822		XNP	RED WING DAM 3			92 37 W	677			
129		14992	XNP	REDWOOD FALLS MUNICIPAL	RWF					+	
130 131	216849 216972		XNP P	REMER NO 2 RIVERTON			93 55 W 94 03 W				
131		14925	XNP	ROCHESTER MUNICIPAL AP	RST				*	+	
133	217020		P	ROCKFORD			93 44 W	960			
134	217087		XNP	ROSEAU 1 E		48 51 N	95 46 W	1047			
135	217107		XNP					950		+	
136	217149		XNP	ROTHSAY			96 17 W			+	
137 138	217157 217294	14926	P XNP	ROYALTON 5 W ST CLOUD MUNICIPAL AP	CTC	45 50 N	94 22 W	1000	*	+	
139	217294	エゴンムロ	ANP P	ST FRANCIS 4 S	310		94 03 W	860		'	
140	217326		XNP	ST JAMES FILT PLANT			94 37 W				
-			•								

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# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

					STATION INVEN								
No.	COOP ID	WBAN ID	Elements	Station Name		Call	Latitude	Longitu	ıde	Elev	Flag 1	Flag 2	
141	217377		XNP	ST PAUL			44 58 N	93 02	W	900		+	
142	217405		XNP	ST PETER 2 ST	V		44 18 N	93 59	W	850		+	
143	217460		XNP	SANDY LAKE D	AM LIBBY		46 48 N	93 19	W	1234			
144	217502		XNP	SANTIAGO 3 E			45 33 N	93 46	W	1020		+	
145	217907		XNP	SPRINGFIELD :	l NW		44 15 N	94 59	W	1066		+	
146	217915		P	SPRING GROVE			43 34 N	91 39	W	1375			
147	218025		XNP	STEWART			44 44 N	94 21	W	1040		+	
148	218037		XNP	STILLWATER 1	SE		45 03 N	92 48	W	710			
149	218191		XNP	TAMARAC WILD	LIFE REF		46 58 N	95 40	W	1483			
150	218227		XNP	THEILMAN			44 17 N	92 11	W	730			
151	218247		XNP	THIEF RIVER	FALLS 2		48 08 N	96 10	W	1130			
152	218254		XNP	THORHULT 1 S			48 13 N	95 15	W	1190			
153	218311		XNP	TOWER 3 S			47 45 N	92 17	W	1460		+	
154	218323		XNP	TRACY			44 14 N	95 38	W	1403		+	
155	218419		XNP	TWO HARBORS			47 02 N	91 40	W	625		+	
156	218429		XNP	TYLER			44 17 N	96 08	W	1735		+	
157	218520		P	VESTA			44 30 N	95 27	W	1080		+	
158	218543		XNP	VIRGINIA			47 30 N	92 33	W	1440			
159	218552		P	WABASHA			44 23 N	92 03	W	700		+	
160	218579		XNP	WADENA 3 S			46 24 N	95 09	W	1350		+	
161	218618		XNP	WALKER AH GW	AH CHING		47 04 N	94 34	W	1410		+	
162	218656		XNP	WANNASKA 1 S			48 39 N	95 45	W	1190			
163	218679		XNP	WARROAD			48 55 N	95 19	W	1069		+	
164	218692		XNP	WASECA EXP S'	TATION		44 04 N	93 32	W	1153		+	
165	218700		XNP	WASKISH 4 NE			48 12 N	94 26	W	1200			
166	218808		P	WELLS			43 44 N	93 44	W	1197			
167	218907		XNP	WHEATON			45 48 N	96 30		1018		+	
168	218939		P	WHITEFACE RE	SERVOIR		47 17 N	92 11	W	1492			
169	219004		XNP	WILLMAR STAT			45 08 N	95 01	W	1128		+	
170	219033		XNP	WINDOM			43 52 N	95 07		1375		+	
171	219046		XNP	WINNEBAGO			43 46 N	94 11	W	1110		+	
172	219059		XNP	WINNIBIGOSHI	SH DAM		47 26 N	94 04		1315		+	
173	219067		XNP	WINONA			44 03 N	91 38		652		+	
174	219072		P	WINONA DAM 5	A		44 05 N	91 40		663			
175	219085		P	WINSTED			44 58 N	94 03		1030			
176	219101		XNP	WINTON POWER	PLANT		47 56 N	91 46		1337			
177	219170	94927	XNP	WORTHINGTON			43 39 N	95 35		1570		+	
178	219173		XNP	WRIGHT 4 NW			46 43 N	93 04		1295		+	
179	219208		P	YOUNG AMERIC	$\mathcal{F}$		44 47 N	93 55		1020			
1/9	219208		P	TOUNG AMERICA	<u> </u>		N	23 25	W	1020			

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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

						TEME	FRATII	RE NO	2 IAMS	(Degree	s Fahrer	nheit)		
No. Station Name	Elemen	t JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
001 ADA	MAX	14.3	21.4	34.0	53.1	68.5	76.3	80.7	80.1	69.2	55.4	34.2	20.0	50.6
	MEAN	4.5	11.9	25.2	42.2	56.6	65.7	69.8	68.4	57.4	44.4	26.0	11.4	40.3
	MIN	-5.4	2.3	16.3	31.3	44.7	55.0	58.9	56.7	45.5	33.3	17.8	2.7	29.9
002 AGASSIZ REFUGE	MAX MEAN	10.7	18.8	31.8 21.6	49.6 39.1	65.0 54.0	73.9 63.0	78.1	77.2 65.4	66.2 54.6	52.6 41.8	30.9 22.7	15.9 7.0	47.6 37.1
	MIN	-10.0	-2.8	11.3	28.5	43.0	52.1	56.5	53.6	43.0	30.9	14.5	-1.9	26.6
003 AITKIN 2 E	MAX	17.6	25.3	37.5	53.1	67.0	75.1	78.9	76.8	66.9	54.7	36.1	21.9	50.9
	MEAN	7.0	14.3	26.5	41.0	53.7	62.3	66.7	64.6	55.2	44.0	28.1	13.0	39.7
	MIN	-3.7	3.2	15.5	28.8	40.3	49.5	54.4	52.3	43.5	33.2	20.1	4.1	28.4
004 ALBERT LEA 3 SE	MAX MEAN	20.9	27.3 18.1	39.4 30.6	54.9 44.6	68.9 58.0	78.7 67.7	82.2 71.7	79.7 69.2	71.5 60.1	58.9 47.7	40.2	25.6 17.0	54.0 44.0
	MIN	2.1	8.9	21.8	34.3	47.1	56.7	61.2	58.6	48.7	36.4	22.7	8.4	33.9
005 ALEXANDRIA CHANDLER AP	MAX	17.1	24.1	35.6	52.5	66.9	75.5	80.6	78.2	68.3	54.8	35.3	21.5	50.9
	MEAN	7.9	15.3	27.2	42.6	56.3	65.1	70.1	67.8	57.8	45.2	28.1	13.7	41.4
006 37 677 7 4 7	MIN	-1.3	6.4	18.7	32.6	45.7	54.7	59.6	57.4	47.2	35.5	20.8	5.8	31.9
006 ARGYLE 4 E	MAX MEAN	13.3	21.3	34.0 23.7	53.5 41.0	69.8 55.3	77.0 63.7	81.3	80.8 66.2	69.6 55.8	55.7 43.4	34.3 25.0	19.3 9.7	50.8 38.7
	MIN	-8.1	-1.0	13.4	28.4	40.8	50.3	54.1	51.6	41.9	31.0	15.7	0.0	26.5
007 ARTICHOKE LAKE	MAX	19.6	26.2	37.5	54.9	69.2	77.3	81.6	79.4	70.4	57.5	37.7	24.1	53.0
	MEAN	9.8	16.9	29.0	44.7	58.7	67.4	71.8	69.6	60.1	47.6	29.7	15.5	43.4
	MIN	0.0	7.6	20.4	34.5	48.2	57.4	62.0	59.8	49.8	37.6	21.6	6.9	33.8
008 AUSTIN 3 S	MAX MEAN	20.2	26.9 17.8	39.4 30.8	55.7 44.9	68.6 57.3	77.9 66.9	80.5 70.0	78.1 67.4	70.8 59.0	58.6 47.0	39.3 30.6	24.5 16.1	53.4 43.2
	MIN	1.5	8.7	22.1	34.1	46.0	55.8	59.5	56.7	47.2	35.3	21.8	7.6	33.0
009 BABBITT 2 SE	MAX	16.1	24.3	35.9	51.0	66.6	73.1	76.9	74.6	64.4	52.0	33.3	20.1	49.0
	MEAN	6.7	14.4	25.7	40.3	54.6	62.4	66.6	64.5	54.9	43.3	26.5	12.0	39.3
	MIN	-2.7	4.4	15.4	29.6	42.6	51.6	56.3	54.4	45.4	34.6	19.6	3.9	29.6
010 BAUDETTE	MAX	14.9	24.0 11.9	36.1 24.5	53.0	67.9 55.3	75.3 63.6	79.5	77.7 66.1	67.2 55.9	54.0	33.6	19.3	50.2 39.2
	MEAN MIN	3.8	-0.3	12.9	41.0	42.6	51.9	56.7	54.5	44.6	44.2 34.4	26.0 18.4	10.1	28.2
012 BEMIDJI	MAX	16.1	24.0	36.0	52.6	67.5	74.6	78.7	76.6	65.9	53.5	33.9	20.7	50.0
	MEAN	5.9	13.3	26.0	41.1	55.1	63.3	67.9	65.6	55.6	44.3	26.5	12.0	39.7
	MIN	-4.3	2.6	16.0	29.5	42.6	51.9	57.0	54.6	45.3	35.0	19.0	3.3	29.4
013 BENSON	MAX	19.6	26.8	39.0	56.6	70.8	78.8	82.7	80.4	71.7	58.8	38.6	24.4	54.0
	MEAN MIN	10.3	17.7 8.6	30.0 21.0	45.4 34.1	59.0 47.2	67.8 56.7	72.0	69.8 59.1	60.4 49.1	47.9 36.9	30.3	15.9 7.3	43.9 33.7
014 BIG FALLS	MAX	17.6	26.7	38.8	55.3	70.3	76.8	80.8	78.6	67.8	55.3	34.7	21.6	52.0
	MEAN	5.3	13.6	26.1	41.3	55.2	62.8	66.9	64.8	54.9	43.7	25.8	11.2	39.3
	MIN	-7.0	0.4	13.3	27.3	40.1	48.8	52.9	51.0	41.9	32.1	16.8	0.7	26.5
016 BRAINERD	MAX	18.5	26.0	37.5	54.0	68.6	76.5	81.0	78.8	68.8	56.2	37.4	23.3	52.2
	MEAN MIN	5.5 -7.5	12.5 -1.0	25.6 13.6	41.7	55.5 42.3	64.0 51.4	68.6 56.2	66.1 53.4	55.6 42.4	43.8	27.6 17.7	12.6	39.9 27.6
018 BRIMSON 1 E	MAX	16.0	24.0	34.8	49.8	63.8	72.7	77.0	74.6	64.6	52.1	33.8	20.3	48.6
	MEAN	3.3	10.3	22.5	36.8	49.6	58.9	63.5	61.1	52.3	40.5	24.7	9.6	36.1
	MIN	-9.4	-3.5	10.2	23.7	35.3	45.0	49.9	47.6	39.9	28.8	15.6	-1.2	23.5
019 BROWNS VALLEY	MAX	19.8	26.9	38.4	56.0	70.6	79.0	84.5	82.5	72.2	58.4	38.7	24.8	54.3
	MEAN MIN	9.7	17.1 7.3	29.0 19.5	44.5 33.0	58.2 45.7	67.1 55.1	72.3	70.0 57.5	59.7 47.2	46.7 35.0	29.9 21.0	15.5 6.2	43.3 32.3
020 BRUNO 7 ENE	MAX	17.0	24.9	36.5	52.2	66.2	74.3	78.3	75.6	66.3	53.8	35.3	21.4	50.2
	MEAN	5.9	12.8	25.4	40.3	52.6	60.7	65.8	63.6	54.3	42.9	26.9	12.1	38.6
	MIN	-5.3	0.6	14.3	28.4	38.9	47.1	53.3	51.6	42.2	32.0	18.5	2.8	27.0
021 BUFFALO	MAX MEAN	20.6	27.5 16.8	39.4 29.3	55.6 44.2	69.2 57.9	78.2 67.2	82.2 71.4	79.8 68.9	71.1 59.2	59.0 47.5	40.0 31.3	25.2 16.3	54.0 43.4
	MIN	-0.3	6.1	19.2	32.7	46.5	56.2	60.5	57.9	47.3	36.0	22.5	7.4	32.7
022 CALEDONIA	MAX	22.4	28.9	40.7	55.7	68.0	77.7	81.5	78.9	70.8	58.5	40.6	26.9	54.2
	MEAN	12.9	19.3	31.1	44.8	57.0	66.7	70.7	68.4	59.4	47.6	32.0	18.4	44.0
	MIN	3.4	9.7	21.5	33.9	45.9	55.6	59.8	57.8	48.0	36.6	23.3	9.8	33.8
023 CAMBRIDGE STATE HOSP	MAX	19.5	26.7	38.5	55.1	69.0	76.6	80.9	78.1	68.4	56.1	37.7	24.1	52.6
	MEAN MIN	9.8	$17.1 \\ 7.4$	29.2 19.8	44.0 32.9	57.1 45.2	65.2 53.7	70.0	67.4 56.6	57.7 46.9	45.7 35.3	29.5 21.3	15.4 6.7	42.3 32.1
024 CAMPBELL	MAX	17.1	24.1	36.1	55.0	70.0	78.2	83.0	82.0	71.9	58.5	37.6	22.8	53.0
	MEAN	6.7	14.1	27.0	43.6	57.5	66.3	70.7	69.1	59.0	45.9	28.1	13.1	41.8
0.05	MIN	-3.7	4.0	17.9	32.2	45.0	54.3	58.3	56.1	46.0	33.3	18.6	3.4	30.5
025 CANBY	MAX	24.1	30.3	41.0	57.0	71.1	80.5	85.2	83.1	74.1	61.6	42.0	28.7	56.6
	MEAN MIN	13.7	20.5 10.6	31.4 21.7	45.5 33.9	59.0 46.8	68.5 56.4	73.2	71.0 58.9	61.5 48.8	49.0 36.4	32.3 22.5	18.9 9.1	45.4 34.1
027 CASS LAKE	MAX	15.6	23.8	35.6	51.4	66.6	74.7	79.0	76.9	65.9	52.8	33.9	20.3	49.7
	MEAN	3.4	11.0	24.5	39.5	53.7	62.6	67.3	65.3	55.2	43.0	25.6	10.0	38.4
	MIN	-8.8	-1.8	13.4	27.5	40.7	50.5	55.5	53.6	44.4	33.2	17.2	-0.4	27.1
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# United States Climate Normals 1971-2000 60 7 60 7 15 F M A M J J A S O N D

# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

No. Station Name	Element	t JAN	FEB	MAR	APR	TEMP MAY	JUN	RE NOF	AUG	(Degree: SEP	s Fahrer OCT	nheit) NOV	DEC	ANNUAL
028 CEDAR	MAX MEAN	19.9 10.9	27.2 18.1	39.2 30.3	56.3 45.1	69.7 57.9	76.6 65.9	80.5 70.4	78.1 68.1	69.7 59.3	57.3 47.3	37.8 30.5	23.8	53.0 43.3
	MIN	1.8	9.0	21.3	33.9	46.1	55.1	60.2	58.1	48.9	37.3	23.1	8.7	33.6
029 CHASKA	MAX	24.2	31.1	43.1	60.1	73.8	82.2	85.8	82.9	74.5	61.7	42.0	28.2	57.5
	MEAN	13.8	20.7	33.0	47.9	60.9	69.8	74.0	71.4	62.6	50.2	33.3	19.4	46.4
000	MIN	3.4	10.3	22.8	35.6	47.9	57.3	62.1	59.9	50.6	38.6	24.6	10.5	35.3
030 CLOQUET	MAX MEAN	19.6 9.1	27.2 15.9	37.9 26.8	53.7	68.9 53.7	76.6 62.0	80.8	77.8 65.2	67.8 56.0	54.9 44.4	36.4 28.4	23.5	52.1 40.3
	MEAN	-1.4	4.5	15.7	27.6	38.4	47.3	53.7	52.5	44.2	33.8	20.4	5.2	28.5
032 COLLEGEVILLE ST JOHN	MAX	20.7	28.1	40.0	56.9	70.7	78.6	83.0	80.5	71.4	58.7	38.9	24.8	54.4
	MEAN	11.0	18.4	30.4	45.7	59.1	67.5	72.2	70.1	60.9	48.7	31.1	16.5	44.3
	MIN	1.2	8.7	20.7	34.4	47.5	56.4	61.4	59.6	50.3	38.6	23.3	8.1	34.2
033 COOK 18 W	MAX	17.6 5.9	26.1	38.2	54.3	68.2	74.4	78.1	76.3	66.3	54.2	35.3	22.0	50.9
	MEAN MIN	-5.9	13.9	26.3 14.3	40.9	54.0 39.7	61.6 48.8	66.3 54.4	64.2 52.1	54.8 43.3	43.5	26.8 18.2	12.1	39.2
034 COTTON	MAX	17.5	25.6	36.7	52.2	66.0	73.9	78.2	75.6	65.8	53.4	35.3	21.5	50.1
	MEAN	3.8	11.5	23.9	38.7	51.7	60.2	64.9	62.8	53.5	42.3	25.7	10.3	37.4
	MIN	-9.9	-2.7	11.1	25.1	37.3	46.5	51.6	50.0	41.2	31.1	16.1	-0.9	24.7
035 CROOKSTON NW EXP STN	MAX	14.1	21.3	33.4	52.4	68.6	77.0	81.5	80.6	69.4	55.3	34.1	19.9	50.6
	MEAN MIN	3.8 -6.5	11.2	24.5 15.6	41.7	56.4 44.1	65.3 53.5	69.5 57.5	68.0 55.3	57.0 44.6	44.0 32.7	25.5 16.8	10.6	39.8
037 DEEP PORTAGE	MAX	15.9	24.0	36.3	51.8	66.9	74.6	78.8	76.8	66.3	54.2	34.3	20.3	50.0
	MEAN	4.0	11.6	25.1	40.7	54.9	63.2	67.4	65.5	55.3	43.5	26.2	10.6	39.0
	MIN	-7.9	-0.9	13.8	29.5	42.8	51.8	56.0	54.1	44.3	32.7	18.0	0.8	27.9
038 DELANO	MAX	20.1	26.9	39.1	55.7	69.8	78.0	82.5	79.5	70.3	58.2	37.9	24.6	53.6
	MEAN	9.8	16.8	29.7	44.4	57.9 45.9	66.9 55.7	71.6	68.8	59.3	46.9 35.6	29.5	14.9	43.0
039 DETROIT LAKES 1 NNE	MIN MAX	-0.6 16.4	24.1	20.3	33.1 54.8	69.4	76.1	80.5	58.1 79.1	48.2	55.9	21.1	5.1	32.5 51.5
039 DEIROIT DARES I MNE	MEAN	6.1	13.7	26.9	43.0	56.9	64.6	69.3	67.9	58.0	45.7	27.6	12.4	41.0
	MIN	-4.3	3.2	17.1	31.2	44.3	53.1	58.0	56.6	46.8	35.5	20.0	3.7	30.4
040 DULUTH HARBOR STA	MAX	19.6	25.8	34.5	46.5	57.4	67.6	74.9	73.0	64.5	52.6	37.2	24.5	48.2
	MEAN	10.4	16.6	26.4	38.5	48.4	57.9	65.8	65.3	56.4	45.2	30.5	16.7	39.8
041 DULUTH INTL AP	MIN MAX	1.1	7.4	18.3	30.5	39.3	48.1	56.7 76.3	57.5 73.9	48.2	37.8 52.5	23.7	8.8	31.5 48.7
041 DOLOTH INIL AP	MEAN	8.4	14.8	25.4	39.0	51.8	59.9	65.5	63.7	54.7	43.5	28.0	14.0	39.1
	MIN	-1.2	5.1	16.5	28.9	40.2	48.5	54.6	53.5	44.8	34.5	20.7	5.6	29.3
042 ELBOW LAKE	MAX	16.4	23.7	35.7	53.8	68.6	76.6	81.0	80.0	69.4	56.6	36.6	21.8	51.7
	MEAN	5.9	13.6	25.9	42.4	56.6	64.9	69.6	68.0	57.5	44.9	27.6	12.6	40.8
045 EVELETH WASTE WATER PLT	MIN MAX	-4.7 15.0	3.4	16.0 34.3	31.0	44.5 64.5	53.2	58.2 76.6	56.0 74.2	45.6 63.9	33.1 50.9	18.6	3.3	29.9 48.1
045 EVELEIN WASIE WAIER PLI	MEAN	5.2	12.1	24.3	39.0	52.7	61.6	66.0	64.0	53.8	41.9	25.5	11.1	38.1
	MIN	-4.7	1.4	14.2	28.0	40.9	50.5	55.4	53.7	43.7	32.8	18.2	2.5	28.1
046 FAIRMONT	MAX	22.0	28.7	40.7	56.3	70.4	79.9	83.1	80.6	72.5	59.3	39.9	25.7	54.9
	MEAN	13.4	20.3	32.3	46.4	59.7	69.1	72.7	70.3	61.6	49.1	32.2	18.0	45.4
047 FARIBAULT	MIN MAX	4.8	11.9	23.8	36.4	48.9	58.3 79.3	62.3	60.0 80.2	50.7	38.9	24.4	10.3	35.9 54.8
047 FARIBAULI	MEAN	11.6	18.2	30.6	45.0	57.8	67.5	71.6	69.1	60.1	48.2	32.0	17.8	44.1
	MIN	1.3	7.9	21.2	33.8	46.1	55.7	60.2	58.0	48.4	36.8	23.2	8.8	33.5
048 FARMINGTON 3 NW	MAX	22.3	29.0	41.3	58.6	72.2	80.0	83.6	81.1	72.7	60.1	40.7	26.9	55.7
	MEAN	13.1	20.1	32.2	47.2	60.1	68.5	72.2	69.8	61.2	49.3	32.6	18.6	45.4
049 FERGUS FALLS	MIN MAX	3.8	11.2	23.0 35.2	35.8 53.3	47.9 67.9	57.0 75.9	60.8 80.4	58.4 79.2	49.6 69.2	38.5 55.9	24.4 35.8	10.2	35.1 51.1
049 FERGOS FALLS	MEAN	6.4	13.4	26.1	42.7	56.8	65.4	70.0	68.3	57.9	45.1	27.7	12.8	41.1
	MIN	-3.4	3.6	17.0	32.0	45.6	54.9	59.6	57.3	46.6	34.3	19.5	4.1	30.9
050 FLOODWOOD 3 NE	MAX	15.7	23.7	35.1	51.0	64.8	72.8	76.6	74.8	64.9	52.8	34.3	20.3	48.9
	MEAN	4.3	11.8	23.6	38.7	51.2	60.2	64.3	62.6	53.3	42.0	25.9	10.8	37.4
051 FOREST LAKE 5 NE	MIN	-7.1	-0.2	12.1	26.3	37.5	47.5	52.0	50.3	41.6	31.1	17.4	1.2	25.8
OJI FORESI HARE S NE	MAX MEAN	22.7 12.7	29.8 19.7	41.5 31.4	57.9 46.2	71.3 59.3	78.7 67.4	82.4 71.6	80.0 69.5	71.3 60.7	59.4 49.3	40.7 32.7	26.7 18.3	55.2 44.9
	MIN	2.7	9.6	21.3	34.5	47.3	56.0	60.8	59.0	50.1	39.1	24.7	9.8	34.6
053 FOSSTON 1 E	MAX	13.3	21.0	33.7	51.5	66.7	74.2	78.5	77.4	66.8	53.7	33.1	19.0	49.1
	MEAN	2.6	10.2	23.5	39.8	54.3	62.7	66.7	65.0	54.5	42.6	24.7	9.7	38.0
OF A CAVI OFF	MIN	-8.1	-0.7	13.2	28.0	41.8	51.2	54.8	52.5	42.2	31.4	16.2	0.4	26.9
054 GAYLORD	MAX MEAN	20.3	27.2 17.7	39.2 30.0	55.3 44.4	70.0 58.7	79.5 68.3	83.4 72.5	80.3 69.5	71.5 59.7	58.8 47.4	39.4 30.8	25.1 16.5	54.2 43.9
	MEAN	1.1	8.1	20.8	33.5	47.4	57.0	61.5	58.7	47.9	35.9	22.2	7.8	33.5
055 GEORGETOWN 1 E	MAX	16.0	23.3	35.9	55.5	70.7	78.0	82.2	81.2	70.6	57.0	35.2	20.9	52.2
	MEAN	6.3	13.9	27.3	44.0	58.0	66.3	70.5	69.1	58.7	46.2	27.1	12.3	41.6
	MIN	-3.4	4.5	18.6	32.5	45.3	54.5	58.8	56.9	46.8	35.4	18.9	3.7	31.0
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# United States Climate Normals 1971-2000 60 -7 40 -7 J F M A M J J A S O N D

# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

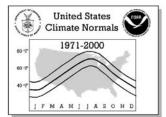
$\overline{}$							TEME	PERATU	RE NO	RMALS	(Degree	s Fahrer	heit)		
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
056	GLENWOOD 2 WNW	MAX	20.0	27.0	39.0	57.3	71.1	79.0	83.1	81.1	72.1	59.2	39.3	25.0	54.4
		MEAN	10.1	17.2	29.4	45.1	58.2	66.4	70.9	68.9	59.4	47.2	30.0	15.8	43.2
OE O	GRAND MARAIS	MIN MAX	0.1 22.9	7.4 27.4	19.8 35.4	32.8	45.2 55.9	53.7	58.6	56.6 71.0	46.6	35.1 52.0	20.6	6.6	31.9 47.7
038	GRAND MARAIS	MEAN	13.9	18.5	27.5	38.4	47.1	53.3	60.6	62.6	55.1	44.6	31.8	19.4	39.4
		MIN	4.9	9.6	19.6	30.3	38.2	43.7	51.3	54.2	47.2	37.1	25.2	11.5	31.1
059	GRAND MEADOW	MAX	20.6	26.6	38.5	54.2	68.0	77.6	81.1	78.9	70.9	58.4	40.2	25.4	53.4
		MEAN MIN	11.7	17.7	29.3	43.3	56.3 44.5	66.6 55.5	70.1	67.7 56.4	59.0 47.1	47.1 35.7	31.7 23.1	17.5 9.6	43.2 32.9
060	GRAND PORTAGE RNG STN	MAX	18.7	24.2	34.5	47.3	61.4	69.1	75.5	73.2	64.0	52.1	37.2	23.7	48.4
* * * *		MEAN	7.8	12.8	24.5	37.1	49.5	57.4	63.4	62.5	53.7	43.0	28.8	13.8	37.9
		MIN	-3.1	1.4	14.5	26.9	37.6	45.6	51.3	51.7	43.3	33.8	20.4	3.8	27.3
061	GRAND RAPIDS FOREST LAB		17.0	25.8 14.0	37.7 26.4	53.7	67.8 54.3	75.8 62.9	79.8	77.5 65.0	66.6 54.9	54.0	34.9 26.9	21.2	51.0 39.6
		MEAN MIN	6.4	2.2	15.0	41.1	40.7	49.9	67.4	52.4	43.1	33.4	18.9	2.9	28.1
062	GULL LAKE DAM	MAX	15.4	23.2	34.4	50.6	65.2	73.5	77.7	75.6	65.6	53.1	34.5	20.1	49.1
		MEAN	5.4	13.0	24.8	40.0	54.4	63.7	68.3	66.2	56.1	43.7	27.2	11.8	39.6
0.63	CINITI INTE I AVE 10 MI	MIN	-4.6	2.8	15.2	29.4	43.5	53.8	58.9	56.7	46.6	34.3	19.9	3.4	30.0
063	GUNFLINT LAKE 10 NW	MAX MEAN	13.7	22.3 9.4	35.1 22.0	50.2 37.3	65.9 51.9	71.9 59.8	77.2	74.1 62.6	62.4 52.0	50.0	32.5 24.9	18.3	47.8 36.4
		MIN	-9.2	-3.6	8.8	24.4	37.9	47.6	53.0	51.0	41.6	31.7	17.3	-0.8	25.0
064	HALLOCK	MAX	10.4	18.2	31.1	50.9	67.4	75.4	79.9	79.0	67.2	53.1	31.5	16.1	48.4
		MEAN	1.3	8.7	22.0	39.6	54.9	64.0	68.1	66.3	54.9	42.2	23.8	8.1	37.8
067	HASTINGS DAM 2	MIN MAX	-7.8 21.0	-0.9 28.0	12.9 39.1	28.2	42.4 68.5	52.6 77.8	56.3 81.9	53.5 79.6	42.5	31.2	16.1	0.0	27.3 53.8
007	HASIINGS DAM 2	MEAN	11.5	18.4	30.3	45.6	58.0	67.6	72.1	70.0	60.7	48.7	32.1	17.7	44.4
		MIN	1.9	8.7	21.5	35.8	47.5	57.3	62.3	60.3	50.9	39.4	24.4	9.6	35.0
068	HAWLEY 3 NE	MAX	14.6	22.3	34.5	52.7	67.9	76.3	81.5	80.3	68.6	54.7	35.4	19.9	50.7
		MEAN	3.8 -7.1	11.7	25.2 15.8	41.8	56.2	64.8 53.2	69.8	68.1 55.9	56.8 45.0	43.2	26.4	10.0	39.8 28.9
069	HIBBING CHISHOLM AP	MIN MAX	15.9	1.1	35.1	50.8	44.5 65.5	72.9	58.0 77.1	74.9	64.5	31.7	17.4 33.3	0.0	48.8
005	HIBBING CHIBNOEN III	MEAN	5.3	12.7	24.9	39.4	52.7	61.1	65.9	63.6	53.6	42.0	25.5	10.8	38.1
		MIN	-5.3	1.8	14.7	28.0	39.9	49.3	54.7	52.2	42.7	32.1	17.7	1.6	27.5
070	HINCKLEY	MAX	18.3	25.8	37.6	53.8	67.4	75.8	80.3	78.2	68.3	55.6	37.7	23.2	51.8
		MEAN MIN	7.9 -2.5	15.1 4.3	27.9 18.2	42.6	55.1 42.8	63.8 51.8	68.6 56.8	66.2 54.1	56.1 43.9	44.5 33.4	29.0 20.3	13.9 4.5	40.9
072	HUTCHINSON 1 N	MAX	20.3	27.1	38.9	55.8	69.8	78.7	82.8	80.0	71.5	58.8	39.2	24.7	54.0
		MEAN	10.0	17.3	29.8	45.2	58.8	67.9	72.1	69.3	60.1	47.5	30.7	15.7	43.7
0.7.4		MIN	-0.4	7.5	20.7	34.6	47.7	57.1	61.4	58.6	48.6	36.1	22.1	6.7	33.4
074	INTL FALLS AP	MAX MEAN	13.8	22.4 10.9	34.9 23.6	51.5 39.3	66.6 53.3	74.2 61.6	78.6	76.3 63.8	64.7 53.2	51.7 41.6	32.5 24.4	18.1	48.8 37.4
		MIN	-8.4	-0.7	12.3	27.1	40.0	49.1	53.6	51.3	41.6	31.5	16.4	-1.1	26.1
077	ISLE 12 N	MAX	16.9	24.4	36.1	51.3	65.9	74.0	78.4	76.1	66.5	54.1	36.0	21.6	50.1
		MEAN	6.7	13.4	25.9	40.5	54.2	63.0	68.0	66.1	56.8	45.0	29.1	13.3	40.2
070	ITASCA UNIV OF MINNESOT	MIN	-3.5 14.7	2.3	15.7 34.6	29.6	42.5	52.0 74.0	57.6 78.4	56.0 76.9	47.1 65.7	35.8	22.1	4.9	30.2 49.1
076	TIASCA UNIV OF MINNESOT	MEAN	2.9	10.3	22.8	37.9	52.5	61.7	66.1	64.3	53.3	41.4	24.2	9.4	37.2
		MIN	-9.0	-2.6	11.0	25.0	39.1	49.4	53.7	51.6	40.9	30.1	15.3	-0.5	25.3
079	JORDAN 1 S	MAX	19.4	26.1	38.5	54.8	67.8	76.9	80.5	77.8	69.8	58.2	38.7	24.1	52.7
		MEAN	9.2 -1.1	15.8 5.4	28.6 18.7	42.9	56.3 44.8	65.8 54.7	69.4 58.3	66.7 55.6	57.6 45.3	46.3 34.3	29.3 19.9	14.8	41.9 31.0
080	KARLSTAD	MIN MAX	10.9	18.9	32.2	51.0	67.1	75.1	79.4	78.5	67.2	52.8	31.7	16.2	48.4
		MEAN	0.6	8.5	22.9	40.3	55.0	63.3	67.4	65.7	55.3	42.9	24.1	7.7	37.8
		MIN	-9.8	-1.9	13.6	29.4	42.9	51.4	55.4	52.9	43.4	32.9	16.5	-0.9	27.2
081	KELLIHER	MAX	13.8	22.0	34.6	51.4	65.5	73.4	77.3	75.4	64.7	52.4	32.7	18.1	48.4
		MEAN MIN	2.9 -8.0	10.9 -0.3	23.8 13.0	40.1 28.7	53.7 41.8	62.2 51.0	66.5 55.7	64.1 52.8	54.2 43.6	42.6	25.1 17.4	9.1	37.9 27.4
085	LAKE WILSON	MAX	21.8	28.3	40.0	56.0	70.1	79.3	83.1	80.7	72.4	59.7	39.6	25.8	54.7
		MEAN	11.8	18.7	30.3	44.8	58.5	67.9	72.0	69.6	60.5	47.7	30.6	16.7	44.1
000	I MADERIAN OF THE CON-	MIN	1.8	9.0	20.5	33.6	46.8	56.4	60.8	58.5	48.6	35.6	21.6	7.6	33.4
086	LAMBERTON SW EXP STN	MAX MEAN	22.2 12.1	28.4 18.7	39.8 30.8	56.0 45.0	70.7 58.9	80.0 68.7	83.2	80.9 69.3	73.2 60.2	60.4 47.8	40.6 31.2	26.5 17.2	55.2 44.3
		MEAN	2.0	9.0	21.7	34.0	47.0	57.3	60.9	57.7	47.2	35.2	21.7	7.8	33.5
088	LEECH LAKE DAM	MAX	15.7	25.0	36.8	53.4	67.2	75.6	79.3	77.2	66.5	53.5	34.5	20.3	50.4
		MEAN	5.0	13.5	25.8	41.6	55.0	64.1	68.4	66.2	56.1	43.8	27.2	11.5	39.9
000	TTTCUETETO	MIN	-5.7	1.9	14.8	29.7	42.7	52.5	57.4	55.1	45.6	34.1	19.8	2.7	29.2
089	LITCHFIELD	MAX MEAN	18.6 8.8	25.7 16.2	37.4 28.2	54.6 44.1	68.7 57.7	77.7 66.9	81.8	79.0 68.6	70.0 59.0	57.5 46.5	37.7 29.5	22.9 14.4	52.6 42.6
		MIN	-1.1		19.0	33.6	46.7		60.6		47.9	35.5	21.3	5.8	32.5
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# United States Climate Normals 1971-2000 60 T 19 T A M J J A S O N D

# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

N. 0. 5. N.					455		PERATU			` •		,	DE0	
No. Station Name	Element		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
090 LITTLE FALLS 1 N	MAX MEAN	20.3	27.9 17.0	40.0	57.3 44.7	71.9 58.4	79.8 67.0	84.2	82.0 69.5	72.6 60.0	59.3 47.7	38.9 30.2	24.6 15.4	54.9 43.4
	MIN	-0.8	6.1	18.8	32.0	44.9	54.2	59.2	57.0	47.3	36.0	21.4	6.1	31.9
091 LONG PRAIRIE	MAX	19.3	27.1	38.7	56.2	70.4	78.2	82.5	80.4	71.0	58.2	37.9	23.8	53.6
	MEAN MIN	9.5 -0.4	16.9 6.6	29.0 19.2	44.6 32.9	58.0 45.6	66.5 54.8	71.0	68.7 57.0	59.2 47.3	47.0 35.8	29.6 21.3	15.2 6.5	42.9 32.2
092 LUTSEN 3 NNE	MAX	15.8	21.2	30.7	45.3	58.7	66.8	71.9	69.9	60.4	48.9	33.0	21.1	45.3
	MEAN	5.6 -4.6	10.2	21.1 11.4	35.2 25.1	48.4 38.1	57.4 47.9	62.4 52.9	60.8 51.6	51.6 42.8	40.4	25.8 18.5	12.1	35.9 26.5
093 LUVERNE	MIN MAX	22.7	29.7	41.9	57.5	70.6	79.9	83.8	81.6	73.3	60.5	40.4	26.7	55.7
	MEAN	12.4	19.0	31.1	44.8	58.3	67.9	72.2	69.8	60.1	47.1	30.5	17.0	44.2
094 MADISON SEWAGE PLANT	MIN MAX	2.0	8.3	20.3	32.1 56.0	45.9 70.1	55.9 79.3	60.5	58.0 81.2	46.9	33.7 59.9	20.5	7.3	32.6 54.6
OF PADISON BEWAGE I DANT	MEAN	10.2	17.5	29.1	44.5	58.2	67.9	72.3	69.4	59.6	47.1	30.0	15.6	43.5
	MIN	-0.3	7.5	19.2	33.0	46.2	56.4	60.6	57.5	46.8	34.3	20.4	5.8	32.3
095 MAHNOMEN 1 W	MAX MEAN	13.1	21.2	33.4	51.6 39.9	67.2 54.9	75.0 63.6	79.2	78.8 66.2	68.1 55.2	54.2 42.4	33.5 24.6	18.7 9.4	49.5 38.3
	MIN	-8.3	-0.7	13.1	28.2	42.5	52.2	55.6	53.5	42.3	30.5	15.7	0.0	27.1
096 MANKATO	MAX	22.6	29.4	41.3	57.4	71.3	80.3	83.4	81.2	72.9	60.4	41.3	27.1	55.7
	MEAN MIN	12.5	19.4 9.4	31.4	45.7 33.9	58.6 45.8	68.1 55.8	72.1	69.8 58.3	60.4 47.8	48.3	32.0 22.7	17.9 8.6	44.7 33.6
097 MAPLE PLAIN	MAX	23.1	28.7	41.0	57.4	70.7	78.1	82.8	80.3	71.7	58.9	40.9	27.5	55.1
	MEAN MIN	13.0	19.2 9.6	31.4 21.7	45.9 34.4	59.1 47.4	67.1 56.0	71.4	69.0 57.6	60.4 49.1	48.0 37.0	32.3 23.7	18.8 10.0	44.6 34.1
098 MARCELL 5 NE	MAX	14.5	21.8	35.4	50.5	64.4	72.5	76.5	75.1	63.9	50.9	32.6	19.0	48.1
	MEAN	3.5	10.1	23.8	39.1	52.8	61.7	66.1	64.5	54.0	42.4	25.6	10.1	37.8
099 MARSHALL	MIN MAX	-7.5 23.5	-1.7 30.6	12.1	27.7 58.0	41.1 72.9	50.8	55.7 84.7	53.8	44.1 74.7	33.8	18.5 41.6	1.2	27.5 56.7
099 MARSHALL	MEAN	14.3	21.5	32.6	46.9	60.7	69.4	73.5	71.5	62.6	50.1	33.0	19.5	46.3
	MIN	5.1	12.3	23.7	35.8	48.4	57.8	62.2	59.9	50.5	38.8	24.3	11.2	35.8
100 MELROSE	MAX MEAN	20.0	27.3 17.4	39.2 29.6	56.9 45.0	71.2 58.6	79.2 67.4	83.6	80.9 69.6	71.5 60.1	58.6 47.7	38.2	24.3 15.9	54.2 43.6
	MIN	0.2	7.5	20.0	33.1	46.0	55.5	60.2	58.3	48.6	36.8	22.1	7.5	33.0
101 MILACA	MAX	18.4	25.8	37.5	54.2	67.8	76.5	80.9	78.5	68.9	56.1	37.7	23.0	52.1
	MEAN MIN	8.0 -2.5	15.2 4.5	27.7 17.8	42.8	55.6 43.4	64.6 52.7	69.2 57.5	66.7 54.9	57.0 45.0	44.6 33.0	29.1 20.5	13.9 4.7	41.2 30.2
102 MILAN 1 NW	MAX	22.0	28.9	41.0	58.7	72.7	81.0	85.1	82.8	73.9	60.9	40.4	26.5	56.2
	MEAN	11.2	18.6	31.0	46.3	59.5	68.2	72.2	69.7	60.2	48.0	30.4	16.4	44.3
103 MINNEAPOLIS INTL AP	MIN MAX	0.3	8.2	21.0	33.9 57.0	46.3	55.4 79.0	59.3	56.6 80.4	46.5	35.0 58.4	20.3	6.3	32.4 54.7
	MEAN	13.1	20.1	32.1	46.6	59.3	68.4	73.2	70.6	61.0	48.7	32.5	18.7	45.4
106 MONTEVIDEO 1 SW	MIN	4.3	11.8 27.7	23.5	36.2	48.5	57.8 79.4	63.0	60.8	50.8 72.5	38.9	24.8	10.9	35.9
106 MONIEVIDEO I SW	MAX MEAN	20.4	18.2	39.4	56.6 45.1	70.7 58.4	67.6	83.5	81.4 69.6	60.2	59.5 47.7	39.1 30.2	24.9 16.2	54.6 43.9
	MIN	1.1	8.7	21.5	33.6	46.0	55.7	60.2	57.8	47.8	35.9	21.3	7.4	33.1
108 MOOSE LAKE 1 SSE	MAX MEAN	19.7 8.5	27.5 15.6	38.6 27.4	54.6 41.4	69.0 54.0	76.7 62.2	81.0 67.6	78.2 65.8	68.5 56.5	55.8 44.7	36.8 28.6	23.4 13.9	52.5 40.5
	MIN	-2.7	3.6	16.2	28.1	39.0	47.7	54.1	53.3	44.5	33.6	20.3	4.4	28.5
109 MORA	MAX	21.1	28.2	39.8	55.9	69.7	78.3	82.6	80.1	70.2	58.2	39.6	25.5	54.1
	MEAN MIN	7.5 -6.1	14.6	27.5 15.1	42.7	55.4 41.0	64.5 50.6	68.9	66.3 52.5	56.4 42.6	44.6 30.9	28.6 17.6	13.5	40.9 27.6
110 MORRIS WC EXP STN	MAX	18.2	24.9	36.6	54.4	69.1	77.3	81.5	80.0	70.8	57.5	37.6	23.6	52.6
	MEAN	8.4	15.4	28.1	44.1	57.9	66.9	71.1	69.0	59.0	46.1	29.0	14.6	42.5
111 NEW LONDON	MIN MAX	-1.5 19.5	5.9	19.5 39.0	33.7 56.6	46.7	56.5 79.0	60.6 82.9	57.9 80.6	47.1 71.3	34.6 58.2	20.3	5.5	32.2 53.8
III NEW BONDON	MEAN	9.7	17.1	29.2	44.8	58.5	67.3	71.8	69.7	60.2	47.6	29.7	15.1	43.4
	MIN	-0.2	7.3	19.4	32.9	46.1	55.6	60.7	58.7	49.0	37.0	21.9	6.9	32.9
112 NEW ULM 2 SE	MAX MEAN	23.5 14.1	30.3	42.5 33.4	59.2 47.7	72.5 60.3	80.9 69.2	84.0 73.0	81.4 70.5	73.7 62.1	61.5 50.2	41.3 33.1	27.4 19.1	56.5 46.2
	MIN	4.6	12.1	24.3	36.2	48.1	57.5	61.9	59.5	50.5	38.9	24.9	10.8	35.8
113 OKLEE	MAX	13.0	21.3	33.7	51.9	67.1	75.0	79.3	78.5	67.6	54.2	33.6	18.9	49.5
	MEAN MIN	2.2 -8.7	9.7 -2.0	22.8 11.8	39.8	54.3 41.5	63.0 51.0	67.1 54.9	65.6 52.6	54.6 41.5	42.2	24.3 14.9	9.2 -0.5	37.9 26.2
114 OLIVIA 3 SE	MAX	19.9	26.8	38.6	55.8	70.7	79.5	83.1	80.3	71.6	58.6	38.5	24.2	54.0
	MEAN	10.0	17.3	29.6	44.7	58.6	67.8	71.5	68.8	59.5	47.0	30.0	15.3	43.3
117 OTTERTAIL	MIN MAX	0.0	7.7 27.3	20.5	33.6 56.3	46.5	56.1 78.0	59.8 82.4	57.3	47.3	35.4 58.0	21.4	6.4	32.7 53.8
	MEAN	8.9	16.1	28.6	44.4	58.6	67.1	71.8	69.9	59.9	47.5	29.6	14.8	43.1
	MIN	-2.2	4.9	18.0	32.5	46.5	56.2	61.1	59.1	49.0	37.0	21.0	5.1	32.4



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

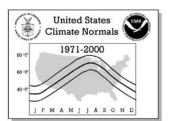
							TEMP	PERATU	RE NOF	RMALS	(Degree:	s Fahrer	nheit)		
	Station Name	Element		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NÓV		ANNUAL
118	OWATONNA	MAX MEAN	20.8	27.6 18.3	40.3	56.5 45.6	69.5 58.3	79.7 68.4	82.9 72.1	80.4 69.8	72.2 60.9	60.0 48.9	40.1 31.5	25.4 17.0	54.6 44.4
		MIN	1.9	8.9	21.7	34.6	47.1	57.0	61.3	59.2	49.5	37.7	22.9	8.5	34.2
119	PARK RAPIDS 2 S	MAX MEAN	16.4 5.2	24.9 13.2	37.3 26.1	54.8 41.9	69.4 55.8	76.8 64.1	81.4 69.0	79.4 67.0	68.8 56.9	55.4 44.3	34.6 26.1	20.6 11.0	51.7 40.1
		MIN	-6.1	1.4	14.8	28.9	42.2	51.4	56.5	54.6	44.9	33.1	17.5	1.3	28.4
121	PINE RIVER DAM	MAX	17.3	25.6	37.1	52.8	66.6	75.1	79.5	77.2	67.0	54.7	36.1	21.5	50.9
		MEAN MIN	5.9 -5.5	14.0	26.4 15.7	41.0	54.7 42.8	63.7 52.3	68.5 57.4	66.1 55.0	56.2 45.4	44.3 33.8	27.9 19.7	12.3	40.1 29.3
122	PIPESTONE	MAX	20.6	27.1	39.4	55.8	69.2	78.5	83.1	80.9	71.8	58.9	39.0	25.5	54.2
		MEAN	11.2	18.0	30.2 21.0	44.6 33.3	57.7 46.2	67.1 55.7	71.6	69.3 57.6	59.3 46.7	46.6 34.2	30.0	16.5 7.4	43.5 32.8
123	POKEGAMA DAM	MIN MAX	15.2	24.0	36.2	52.5	66.2	74.4	78.3	76.5	66.3	53.6	21.0	19.6	49.8
		MEAN	4.6	12.9	25.9	40.9	54.1	62.9	67.3	65.5	55.5	43.5	26.7	10.7	39.2
124	PRESTON	MIN MAX	-6.0 23.3	1.8	15.6 41.6	29.3	42.0 69.1	51.4 78.9	56.3 82.5	54.5	44.7 72.3	33.3	19.0 42.2	1.8	28.6 55.5
121	INESTON	MEAN	12.7	19.2	31.5	45.0	56.7	66.4	70.4	68.2	59.6	48.0	32.5	18.5	44.1
		MIN	2.1	8.4	21.4	33.2	44.3	53.8	58.3	56.0	46.8	35.4	22.7	9.0	32.6
125	RED LAKE FALLS	MAX MEAN	12.9	20.3	33.7 23.7	52.9 41.0	68.2 55.6	76.4 64.4	80.6	79.5 66.8	68.2 55.6	54.4 42.8	32.9 24.4	18.3	49.9 38.7
		MIN	-8.0	-0.5	13.6	29.1	42.9	52.4	56.0	54.0	43.0	31.1	15.9	-0.3	27.4
126	RED LAKE INDIAN AGENCY	MAX	12.7	20.6	32.6	47.9	62.8	70.8	75.3	74.0	63.0	50.9	32.2	18.3	46.8
		MEAN MIN	2.8 -7.1	10.1	22.8 12.9	37.9 27.9	52.5 42.1	61.2 51.5	65.9 56.5	64.3 54.5	53.6 44.2	41.9 32.9	24.7 17.2	9.3	37.3 27.7
128	RED WING DAM 3	MAX	21.5	28.0	40.0	55.6	69.4	78.6	82.6	80.2	71.1	58.5	40.1	26.8	54.4
		MEAN	12.0	18.5	31.0	45.8	58.5	67.6	72.1	69.9	60.6	48.3	32.3	18.5	44.6
129	REDWOOD FALLS MUNICIPAL	MIN MAX	2.5	8.9	21.9	36.0 57.2	47.6	56.6	61.5 84.4	59.5 81.8	50.1 73.1	38.0 59.9	24.4	10.2	34.8 55.4
	THE THE THE THE THE THE	MEAN	13.0	19.8	32.2	46.9	60.3	69.6	73.5	71.0	61.7	49.2	32.1	18.0	45.6
120	DEVED 110 0	MIN	4.0	11.5	24.0	36.6	49.2	58.5	62.5	60.1	50.3	38.4	24.0	9.8	35.7
130	REMER NO 2	MAX MEAN	16.2 4.9	25.0 13.1	37.0 25.8	53.1	67.4 54.2	75.2 62.4	79.2	76.4 64.3	66.7 54.7	54.0 43.5	35.3 26.9	21.3	50.6 39.1
		MIN	-6.5	1.1	14.6	27.9	41.0	49.5	54.7	52.2	42.6	33.0	18.5	1.2	27.5
132	ROCHESTER MUNICIPAL AP	MAX	19.9	26.2	38.7	54.8	67.7	76.6	80.1	77.5	69.2	56.9	38.7	24.5	52.6
		MEAN MIN	11.8	18.4 10.6	30.6 22.6	44.7 34.6	56.9 46.1	66.1 55.6	70.1	67.7 58.0	58.9 48.7	47.0 37.1	31.2 23.7	17.3 10.1	43.4 34.2
134	ROSEAU 1 E	MAX	9.4	17.9	30.8	50.0	65.6	73.1	77.0	76.1	64.9	51.4	30.2	15.3	46.8
		MEAN MIN	-0.7 -10.7	7.3 -3.4	20.7	39.0	53.8 42.0	62.5 51.9	66.4 55.8	64.8 53.5	54.0 43.1	41.5	22.8 15.4	7.0 -1.4	36.6 26.4
135	ROSEMOUNT AGRI EXP STN	MAX	20.1	26.9	39.5	56.4	68.7	77.9	81.3	78.7	70.6	59.2	39.6	24.6	53.6
		MEAN	10.1	17.1	30.3	45.3	57.5	67.0	71.0	68.6	59.9	48.2	30.9	15.9	43.5
136	ROTHSAY	MIN MAX	0.0	7.2	21.0	34.1 53.8	46.3	56.1 76.9	60.7	58.5	49.1	37.2 56.2	22.2 35.3	7.2	33.3 51.3
130	ROTIISAT	MEAN	5.2	13.1	25.7	42.7	57.2	66.1	70.5	69.0	58.1	45.0	26.8	11.8	40.9
		MIN	-4.5	3.5	16.6	31.6	45.6	55.2	59.6	57.8	46.2	33.8	18.3	3.1	30.6
138	ST CLOUD MUNICIPAL AP	MAX MEAN	18.7 8.8	25.7 16.1	37.7 28.4	54.9 43.6	69.0 56.6	77.3 65.1	81.7 69.8	78.9 67.2	69.0 57.4	56.3 45.3	37.2 28.8	23.2 14.4	52.5 41.8
		MIN	-1.2	6.4	19.1	32.2	44.1	52.9	57.9	55.5	45.7	34.3	20.4	5.5	31.1
140	ST JAMES FILT PLANT	MAX	21.2	27.8	39.7	55.5	69.9	79.3	82.7	80.2	72.4	59.9	40.2	25.6	54.5
		MEAN MIN	12.5	19.1 10.4	31.0 22.3	45.0 34.4	59.0 48.0	68.7 58.0	72.4	70.0 59.7	60.9 49.4	48.4 36.9	31.9 23.5	17.8 9.9	44.7 34.9
141	ST PAUL	MAX	22.8	29.7	41.7	58.2	71.2	79.1	83.2	80.8	71.8	59.4	40.5	26.7	55.4
		MEAN	14.5	21.4	32.8	47.2	59.9	68.4	73.0	70.8	61.8	49.8	33.3	19.5	46.0
142	ST PETER 2 SW	MIN MAX	6.2	13.0	23.9	36.2 57.6	48.5	57.6 79.8	62.7 83.6	60.7 81.1	51.7 73.3	40.1	26.1 41.0	12.3	36.6 55.7
		MEAN	12.5	18.7	31.3	45.4	58.8	68.2	72.4	70.0	60.6	48.3	31.8	18.0	44.7
142	CAMPY TAKE DAM TIDDY	MIN	2.2	8.1	21.2	33.2	46.6	56.6	61.2	58.9	47.9	35.9	22.6	8.9	33.6
143	SANDY LAKE DAM LIBBY	MAX MEAN	16.9 5.5	25.3 13.5	37.1 26.1	53.0 41.1	67.4 55.0	76.0 63.8	79.9	77.6 66.3	67.7 56.6	54.9 44.2	36.5 27.8	21.4 $11.7$	51.1 40.0
		MIN	-5.9	1.6	15.1	29.2	42.5	51.6	56.5	54.9	45.4	33.5	19.1	1.9	28.8
144	SANTIAGO 3 E	MAX	21.9	29.6 18.6	41.0 30.5	58.3	72.2 58.7	79.8	84.0	81.3	72.2 59.5	59.8	39.8	26.2 16.8	55.5
		MEAN MIN	11.1	7.5	19.9	45.6 32.8	45.1	66.7 53.5	71.1 58.2	56.0	46.8	47.8 35.7	30.9 21.9	7.4	43.8 32.1
145	SPRINGFIELD 1 NW	MAX	21.3	27.6	39.3	55.8	70.6	79.7	82.5	79.7	72.5	59.7	39.7	25.7	54.5
		MEAN MIN	11.6 1.8	18.3	30.4 21.5	44.6 33.4	58.3 46.0	67.9 56.1	71.2 59.9	68.5 57.3	59.9 47.3	47.7 35.6	30.9 22.0	16.8 7.9	43.8 33.2
147	STEWART	MAX	21.3	28.4	40.2	56.8	70.9	80.0	84.1	81.2	73.0	60.4	40.4	25.7	55.2
		MEAN	11.0	18.6	30.9	45.6	58.9	68.4	72.7	70.1	61.0	48.7	31.8	16.5	44.5
		MIN	0.7	8.7	21.6	34.4	46.9	56.8	61.3	58.9	48.9	37.0	23.1	7.3	33.8

# United States Climate Normals 1971-2000 60 7 40 7 J F M A M J J A S O N D

# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

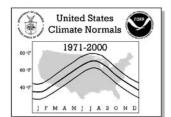
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

	01 ft N	<u>-</u>	1441		1445	400				RMALS (			,	550	
	Station Name	Element		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
148	STILLWATER 1 SE	MAX MEAN	23.3	30.3	42.3	58.6 47.4	71.9	80.5 69.2	84.8 73.8	82.1 71.4	72.7 62.1	60.2 50.2	41.5 34.0	27.5 19.8	56.3 46.3
		MIN	4.9	11.4	23.3	36.1	48.6	57.9	62.7	60.6	51.5	40.2	26.4	12.0	36.3
149	TAMARAC WILDLIFE REF	MAX	14.2	22.9	34.1	51.1	65.6	73.9	78.4	76.6	66.3	53.6	33.8	19.3	49.2
		MEAN	2.7	10.8	23.3	39.9	54.3	63.4	67.9	66.0	55.7	43.3	25.5	9.6	38.5
150	THEILMAN	MIN MAX	-8.9 22.9	-1.3 29.8	12.5 41.4	28.7 57.2	43.0	52.8 79.1	57.3 83.0	55.4 80.6	45.1	32.9	17.2 41.5	-0.2 27.3	27.9 55.3
150	THEILMAN	MEAN	12.1	18.5	30.9	45.4	56.9	66.9	71.0	68.7	59.1	47.9	32.1	18.1	44.0
		MIN	1.3	7.2	20.3	33.5	44.1	54.6	59.0	56.8	46.8	35.6	22.7	8.9	32.6
151	THIEF RIVER FALLS 2	MAX	12.1	20.6	33.6	53.1	69.5	76.7	81.0	79.7	68.0	54.0	31.6	17.5	49.8
		MEAN	3.3	11.2	24.4	41.5	56.1	64.4	68.6	67.2	56.4	43.7	24.4	9.3	39.2
152	THORHULT 1 S	MIN MAX	-5.6 16.3	1.8	15.2 37.2	29.8	42.7	52.1 76.3	56.2 80.6	54.6 78.9	44.8	33.3	17.2 35.1	1.0	28.6 51.4
132	IIIOKIIOHI I S	MEAN	4.2	12.3	25.3	41.1	54.5	62.6	67.2	65.5	55.0	43.6	25.6	10.3	38.9
		MIN	-7.9	-0.1	13.3	27.8	40.1	48.8	53.7	52.0	41.7	31.7	16.1	-0.4	26.4
153	TOWER 3 S	MAX	15.7	23.9	35.4	50.5	65.4	73.0	77.1	75.0	64.5	51.7	34.2	20.5	48.9
		MEAN	1.1	7.9	20.7	36.1	49.4	57.9	62.3	60.1	50.3	39.0	22.9	7.5	34.6
15/	TRACY	MIN MAX	-13.6 21.5	-8.2 27.6	5.9	21.7	33.4	42.8 78.8	47.5 82.7	45.1 80.3	36.0 71.6	26.3	11.6 39.3	-5.5 25.9	20.3
134	TRACI	MEAN	12.2	18.8	30.2	44.5	58.3	68.0	72.1	69.6	60.2	47.7	31.0	17.4	44.2
		MIN	2.9	10.0	21.8	34.4	47.3	57.2	61.5	58.9	48.7	36.6	22.6	8.8	34.2
155	TWO HARBORS	MAX	22.5	27.7	36.3	48.0	58.0	66.5	73.5	72.9	64.7	53.3	38.4	26.9	49.1
1		MEAN	13.8	18.9	28.5	39.4	48.4	55.9	63.5	64.3	56.2	45.4	32.0	19.3	40.5
156	mu no	MIN	5.0	10.1	20.7	30.8	38.8	45.3	53.4	55.7	47.7	37.5	25.6	11.6	31.9
156	TYLER	MAX MEAN	22.0	27.4 19.8	39.1 31.1	55.5 45.3	69.4 58.0	78.5 67.1	82.5 71.3	80.2 69.2	71.8	58.9 48.4	39.0 31.4	26.2 18.5	54.2 44.5
		MIN	5.6	12.2	23.0	35.0	46.5	55.7	60.0	58.1	48.8	37.9	23.7	10.8	34.8
158	VIRGINIA	MAX	16.3	24.1	35.9	51.4	66.5	73.8	77.4	74.8	64.4	51.6	33.3	20.6	49.2
		MEAN	5.1	12.9	24.8	39.4	52.8	60.9	65.1	63.1	53.7	42.0	25.1	11.0	38.0
		MIN	-6.2	1.6	13.6	27.3	39.0	47.9	52.8	51.3	43.0	32.4	16.8	1.3	26.7
160	WADENA 3 S	MAX	15.8	23.0	34.9	52.8	67.2 54.8	74.2 63.3	78.6 67.5	77.2	67.3	54.9	35.4	21.2	50.2
		MEAN MIN	5.3 -5.3	12.2	24.8 14.6	41.0	42.3	52.3	56.4	65.7 54.1	55.6 43.9	43.6	26.6 17.8	11.9	39.4
161	WALKER AH GWAH CHING	MAX	16.0	24.5	35.6	51.8	66.3	74.3	78.4	76.0	65.7	53.1	34.1	20.2	49.7
		MEAN	6.5	14.6	26.4	41.4	55.3	64.0	68.4	66.3	56.1	44.2	27.0	12.0	40.2
		MIN	-3.0	4.6	17.2	31.0	44.3	53.6	58.4	56.5	46.4	35.3	19.9	3.7	30.7
162	WANNASKA 1 S	MAX	11.5	20.1	33.2	51.6	66.6	74.8	78.5	77.4	66.8	53.1	31.7	16.5	48.5
		MEAN MIN	0.1	8.0 -4.1	21.7 10.1	39.1 26.5	53.2 39.7	61.7 48.5	65.8 53.0	64.1 50.8	53.7 40.6	41.6	22.8	6.8	36.6 24.6
163	WARROAD	MAX	12.1	20.5	32.6	49.4	64.8	74.1	79.0	77.6	66.3	52.9	32.6	17.6	48.3
- 0		MEAN	1.0	8.4	21.3	37.4	52.9	62.9	67.3	65.5	54.2	42.1	24.1	8.0	37.1
		MIN	-10.2	-3.8	9.9	25.3	40.9	51.6	55.6	53.3	42.1	31.2	15.6	-1.6	25.8
164	WASECA EXP STATION	MAX	20.5	26.9	38.8	55.1	69.5	78.7	81.9	79.5	71.9	59.0	39.8	25.3	53.9
		MEAN	11.0	17.9	30.3	44.9	58.4	67.8	71.3	68.9	60.2	47.7	31.4	16.8	43.9
165	WASKISH 4 NE	MIN MAX	1.4	8.9	21.8	34.6 52.1	47.3 67.3	56.8 75.5	60.6 79.6	58.3 77.4	48.5	36.4 53.4	23.0	8.2	33.8 49.9
1 103	WASKISH 4 NE	MEAN	1.9	10.0	23.4	39.7	54.2	63.1	67.2	64.9	54.5	42.4	24.8	9.4	38.0
		MIN	-10.6	-3.3	10.5	27.2	41.1	50.7	54.7	52.4	42.4	31.4	15.9	-1.3	25.9
167	WHEATON	MAX	20.8	28.0	39.7	57.9	72.3	80.2	84.9	83.5	74.2	60.9	39.6	25.6	55.6
		MEAN	10.9	18.3	30.4	46.1	59.7	68.5	73.0	71.3	61.6	49.0	30.6	16.5	44.7
160	WILLMAR STATE HOSPITAL	MIN MAX	0.9	8.5 25.6	21.0	34.2 54.7	47.1 69.2	56.7 78.0	61.0 81.8	59.1 79.4	49.0	37.0 57.5	21.6	7.3	33.6 52.9
109	WILLMAR STATE HOSPITAL	MEAN	8.9	16.2	28.6	44.2	58.1	67.3	71.3	68.8	59.4	46.7	29.6	14.7	42.8
		MIN	-1.0	6.7	19.7	33.7	47.0	56.5	60.8	58.2	48.0	35.8	21.4	5.8	32.7
170	WINDOM	MAX	21.7	28.5	40.1	55.7	70.2	79.6	83.2	80.5	72.1	59.4	39.7	25.7	54.7
		MEAN	12.8	19.5	31.3	44.8	58.1	67.9	71.9	69.2	60.2	47.8	31.1	17.6	44.4
171	WINNEBAGO	MIN	3.8	10.5	22.5	33.8	46.0	56.1	60.6	57.9	48.2	36.2	22.5	9.4	34.0
1 / 1	WINNEDAGO	MAX MEAN	21.2 12.2	27.6 18.8	39.7 31.0	55.7 45.2	69.5 58.6	78.7 68.3	82.1 72.0	79.5 69.5	71.7 60.6	59.2 48.2	40.1 31.9	25.6 17.5	54.2 44.5
1		MIN	3.1	10.0	22.2	34.7	47.6	57.8	61.8	59.4	49.4	37.2	23.7	9.3	34.7
172	WINNIBIGOSHISH DAM	MAX	14.4	23.3	36.0	52.0	66.4	74.6	78.1	76.2	65.3	52.5	33.5	19.2	49.3
		MEAN	3.8	12.2	25.2	40.4	54.4	63.5	67.8	65.9	55.5	43.2	26.2	10.3	39.0
1.50	MINON	MIN	-6.8	1.0	14.4	28.7	42.3	52.3	57.5	55.6	45.7	33.9	18.9	1.3	28.7
173	WINONA	MAX	25.9	32.8	44.3	59.7	73.0	81.2	85.3	82.6	74.4	61.8	44.3	30.3	58.0
		MEAN MIN	17.6 9.2	24.3 15.8	35.7 27.0	49.8	62.2 51.3	71.1 60.9	75.8 66.3	73.2 63.7	64.4 54.4	52.3 42.8	37.1 29.8	23.1 15.9	48.9
176	WINTON POWER PLANT	MAX	14.0	22.6	34.7	49.4	65.2	72.8	77.6	75.1	63.8	50.4	32.4	18.5	48.0
		MEAN	2.7	10.1	22.6	37.9	53.3	61.9	67.0	64.6	53.9	41.8	24.9	9.3	37.5
		MIN	-8.7	-2.4	10.5	26.3	41.4	50.9	56.4	54.1	43.9	33.1	17.4	0.1	26.9



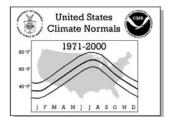
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

	<u> </u>				TEMP	EDATII	DE NOE	MAI S	Degrees	s Fahren	hait)		
No. Station Name	Element JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
177 WORTHINGTON 2 NNE	MEAN 11.4 MIN 1.9	27.4 18.0 8.5	29.4 19.9	43.5	45.3	67.0 55.4	71.0 59.7	68.2 56.6	59.1 46.5	58.9 46.6 34.3	30.1 20.9	25.2 16.5 7.8	53.9 43.2 32.4
178 WRIGHT 4 NW	MEAN 7.6	25.3 14.8 4.2	26.4	40.7	66.2 53.3 40.4	61.0	65.9	75.5 64.2 52.9	66.0 55.3 44.6	44.3	35.2 27.9 20.5	21.7 13.3 4.9	50.1 39.6 29.0



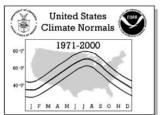
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

					PREC	IPITAT	ON NO	RMALS	(Total in	Inches)			
No. Station Name	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
001 ADA	.83	.59	1.03	1.69	3.05	4.32	3.40	2.84	2.37	2.03	1.08	.70	23.93
002 AGASSIZ REFUGE 003 AITKIN 2 E	1.03	.48	.72 1.51	1.21	2.71 3.10	3.52 4.33	3.63 4.65	3.01	2.57	1.76 2.50	1.13	.53	21.86 29.35
004 ALBERT LEA 3 SE	.87	.67	2.02	3.39	4.18	4.33	4.15	4.51	3.05	2.50	2.00	1.00	33.15
005 ALEXANDRIA CHANDLER AP	1.01	.67	1.50	1.91	3.02	4.38	3.29	3.55	2.71	2.16	1.24	.58	26.02
006 ARGYLE 4 E	.76	.59	.86	1.11	2.16	3.23	3.01	2.56	2.28	1.58	1.02	.63	19.79
007 ARTICHOKE LAKE 008 AUSTIN 3 S	.89	.65 .57	1.53 1.62	1.97 3.11	2.62 4.05	3.67 4.07	3.99 4.49	3.03 4.51	1.93	2.14 2.30	1.16	.50 1.01	24.08 31.97
000 BABBITT 2 SE	.83	.65	.97	1.49	2.82	3.96	3.61	4.14	3.44	2.90	1.92	.92	27.65
010 BAUDETTE	.56	.41	.66	1.17	2.62	3.69	3.38	3.34	2.68	2.14	1.11	.58	22.34
011 BEAVER	1.13	.83	1.92	3.27	4.05	4.29	4.84	4.20	3.60	2.37	1.98	1.07	33.55
012 BEMIDJI 013 BENSON	.69	.57	.86 1.66	1.52 2.10	2.67	4.09	4.33	3.50	2.75	2.26	1.12	.63	24.99 27.92
014 BIG FALLS	.87	.65	1.05	1.61	2.92	4.25	3.69	3.43	3.23	2.34	1.46	.83	26.33
015 BLUE EARTH	.68	.59	1.63	2.95	3.84	5.14	4.28	4.64	2.61	2.30	1.78	.87	31.31
016 BRAINERD 017 BRICELYN	.80	.63 .64	1.47 1.67	2.00	3.33	4.18	4.08	3.56 4.52	2.83	2.51 2.18	1.64 1.77	.68 .92	27.71 31.54
017 BRICELIN 018 BRIMSON 1 E	1.10	.76	1.65	1.93	2.82	4.88	4.34	4.52	3.61	2.18	1.77	1.01	29.80
019 BROWNS VALLEY	.84	.67	1.63	2.02	2.37	3.30	3.44	2.79	1.86	1.76	1.19	.53	22.40
020 BRUNO 7 ENE	1.18	.98	1.72	2.22	2.71	4.78	4.48	3.60	3.22	2.41	2.35	1.00	30.65
021 BUFFALO	.78	.64	1.56	2.30	3.26	4.39	3.91	4.24	2.96	2.19	1.81	.78	28.82
022 CALEDONIA 023 CAMBRIDGE STATE HOSP	.98	.82 .63	1.95 1.40	3.67 2.10	3.83	4.57 4.39	4.71	4.85	3.52 2.95	2.44	2.38	1.27	34.99 29.10
024 CAMPBELL	.74	.49	1.13	1.77	2.44	3.72	3.58	2.59	2.16	1.85	.95	.44	21.86
025 CANBY	.88	.75	1.78	2.27	2.92	4.09	3.35	2.78	2.38	2.12	1.66	.70	25.68
026 CARIBOU 2 S	.66	.51	.66	1.04	2.48	3.05	2.97	2.25	2.14	1.40	.97	.52	18.65
027 CASS LAKE 028 CEDAR	.82	.65 .76	1.28	1.83	2.78	3.95 4.22	4.30	3.35 4.70	2.82	2.55	1.39	.68	26.40 31.36
029 CHASKA	.93	.62	1.77	2.40	3.65	4.21	4.43	4.48	2.97	2.14	2.10	.84	30.44
030 CLOQUET	1.18	.81	1.72	2.02	3.27	4.25	4.23	4.45	4.08	2.62	2.13	1.02	31.78
031 COKATO	.93	.70	1.69	2.33	3.30	4.62	4.04	4.00	2.78	2.23	1.73	.71	29.06
032 COLLEGEVILLE ST JOHN 033 COOK 18 W	1.03	.73 .59	1.80	2.15	3.50 2.29	4.68	3.63	3.81	3.18	2.48 2.30	1.72	.74 .79	29.33 26.04
034 COTTON	.89	.59	1.03	1.94	2.62	4.45	4.89	3.56	3.23	2.35	1.43	.76	27.94
035 CROOKSTON NW EXP STN	.54	.54	.74	1.32	2.44	3.51	3.12	2.94	2.24	1.84	.99	.50	20.72
036 DAWSON	.72	.63	1.58	1.99	2.58	3.49	3.25	2.63	2.04	1.92	1.18	.55	22.56
037 DEEP PORTAGE	.94	.37	.92	1.46	2.55	4.03	4.18	3.40	2.74	2.41 1.95	1.30	.66	24.96
038 DELANO 039 DETROIT LAKES 1 NNE	.72	.61 .57	1.70 1.15	2.41	3.30 2.97	4.05	3.95 4.03	4.06 3.67	2.70	2.50	1.13	.67 .64	27.25 26.36
040 DULUTH HARBOR STA	.95	.53	1.37	1.58	2.26	3.71	3.73	3.69	3.71	1.89	1.39	.79	25.60
041 DULUTH INTL AP	1.12	.83	1.69	2.09	2.95	4.25	4.20	4.22	4.13	2.46	2.12	.94	31.00
042 ELBOW LAKE "	.77	.52	1.15	1.82	2.63	4.32	3.39	3.11	2.15	2.05	1.02	.42	23.35
043 ELGIN 044 ELK RIVER	1.17	.81 .69	2.01 1.75	3.42 2.49	3.60 3.45	4.27	5.28 4.22	4.48	3.46 3.14	2.30 2.21	2.22 1.89	1.21	34.23
045 EVELETH WASTE WATER PLT	.84	.65	1.20	1.70	2.75	4.27	4.27	3.65	3.21	2.22	1.37	.72	26.85
046 FAIRMONT	.80	.72	1.94	3.15	3.88	4.49	4.20	4.22	2.60	2.33	2.01	1.02	31.36
047 FARIBAULT	1.05	.72	1.93	2.81		4.19	4.29		3.20			1.02	
048 FARMINGTON 3 NW 049 FERGUS FALLS	.92	.74	1.95	2.65 1.58	3.61	4.48 3.75	4.13	4.54 3.14	3.14	2.21 2.02		1.04	31.43
050 FLOODWOOD 3 NE	.82	.58	1.04		2.71		4.25	3.28	3.51		1.57	.65	27.09
051 FOREST LAKE 5 NE	.98	.80	1.60	2.40	3.46	4.61	4.55	4.58	3.31	2.51		.97	31.76
052 FORT RIPLEY	.80	.67	1.59	1.81	3.01	3.93	4.09	3.20	2.85		1.39	.60	26.38
053 FOSSTON 1 E 054 GAYLORD	.63	.50 .60	.91 1.58	1.36 2.48	2.68 3.44	4.40 4.71	4.06 3.62	3.50 4.41	2.87	2.37	1.01 1.71	.55	24.84 28.88
055 GEORGETOWN 1 E	.70	.52	1.15	1.50	2.63	3.50	3.11	2.99	2.27		1.03	.59	22.10
056 GLENWOOD 2 WNW	.61	.51	1.33	1.73	3.33	4.06	3.42	3.42	2.32		1.20	.42	24.71
057 GONVICK 2 W	.79	.59	1.09	1.23	2.50	3.93	3.64		2.53		1.14	.59	23.52
058 GRAND MARAIS	.72	.56	1.12	1.30	2.50	3.41	3.38	3.13	3.36	2.59	1.76	.79	24.62
059 GRAND MEADOW 060 GRAND PORTAGE RNG STN	1.03	.75 .80	1.86 1.55	3.37 2.22	4.27 2.86	4.37 3.19	4.82 3.45	5.07 3.10	3.50 3.68	2.43 3.25	2.15	1.03 1.56	34.65 29.36
061 GRAND RAPIDS FOREST LAB	1.01	.61	1.25	1.84	2.90	4.60	4.60	3.70	3.08	2.74	1.59	.86	28.78
062 GULL LAKE DAM	.78	.57	1.41	1.72	3.25	4.27	3.97	3.73	2.64	2.54	1.34	.54	26.76
063 GUNFLINT LAKE 10 NW	1.17	.93	1.24	1.54	2.55	4.04	4.06	4.02	3.21	2.30	1.63	.87	27.56
064 HALLOCK 065 HALSTAD	.70	.46 .44	.75 .81	1.10 1.21	2.25 2.25	3.29 3.72	2.91 3.23	2.37	2.16	1.56 1.77	.89 .88	.55	18.99 20.02
066 HARMONY	1.01	.97	2.03	3.24	3.65	4.46	4.09	4.82	3.47	2.22	2.30	1.21	33.47
067 HASTINGS DAM 2	.88	.63	1.67	2.76	3.36	4.12	4.42		3.09	2.19	1.97	.82	29.92
068 HAWLEY 3 NE	.51	.34	.95	1.40	2.26	3.65	4.11		2.43	2.03	.85	.46	21.56
069 HIBBING CHISHOLM AP	.79	.60	1.02	1.54	2.60	4.34	4.71	3.51	3.19	2.46	1.35	.73	26.84



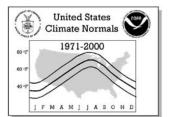
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

							011110		/T ( ):				1
No. Station Name	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	(Total in SEP	OCT	NOV	DEC	ANNUAL
070 HINCKLEY	1.03	.78	1.73	2.31	3.35	4.27	4.53	4.18	3.27	2.69	2.09	1.01	31.24
071 HOKAH 1 S	1.08	1.06	1.92	3.21	3.43	3.82	4.61	4.52	3.46	2.94	2.12	1.09	33.26
072 HUTCHINSON 1 N 073 INDUS 3 W	.77	.53	1.63	2.18	3.09	4.46	3.81	3.99	2.35	1.91 2.19	1.65	.75 .77	27.12 25.41
074 INTL FALLS AP	.84	.64	.96	1.38	2.55	3.98	3.37	3.14	3.03	1.98	1.36	.70	23.93
075 ISABELLA 1 W	1.23	.83	1.49	1.89	3.09	4.06	4.11	4.04	3.59	2.82	1.77	1.09	30.01
076 ISLAND LAKE RESERVOIR	1.20	.74	1.50	1.85	2.95	4.48	4.42	4.00	3.60	2.18	1.90	1.01	29.83
077 ISLE 12 N 078 ITASCA UNIV OF MINNESOT	.66	.47 .63	1.22	1.90	2.95	4.31 4.30	4.96 3.92	3.75 3.71	2.85	2.27	1.53 1.41	.74 .75	27.61 27.04
079 JORDAN 1 S	.76	.52	1.62	2.34	3.40	4.42	3.86	4.68	2.97	2.14	1.71	.77	29.19
080 KARLSTAD	.53	.34	.66	1.11	2.11	3.45	3.28	2.10	2.16	1.49	.83	.50	18.56
081 KELLIHER	.72	.54	1.07	1.59	2.84	4.09	4.22	3.71	3.10	2.53	1.28	.69	26.38
082 KETTLE FALLS	.85	.57	1.21	1.74	2.62	4.00	3.94	3.39	3.70	2.49	1.73	.81	27.05
083 LA CRESCENT DAM 7 084 LAKE CITY DNR	1.00	.88 .56	1.95 1.67	3.61 2.79	3.83	4.28 3.70	4.34	4.62	3.62 2.98	2.39 1.98	2.43	1.20	34.15
085 LAKE WILSON	.66	.66	1.88	2.68	3.35	3.70	3.25	3.66	2.67	2.11	1.59	.68	27.00
086 LAMBERTON SW EXP STN	.65	.53	1.76	2.73	3.26	3.86	3.59	3.39	2.56	1.94	1.41	.58	26.26
087 LANESBORO	1.10	.89	2.05	3.42	4.07	4.46	4.43	4.87	3.48	2.24	2.29	1.28	34.58
088 LEECH LAKE DAM	.76	.50	1.06	1.57	2.71	3.87	4.40	3.76	2.82	2.50	1.19	.71	25.85
089 LITCHFIELD 090 LITTLE FALLS 1 N	.79	.67 .59	1.55 $1.44$	2.35	3.37	4.89	4.02 3.52	3.67 3.45	2.92	2.15	1.50 1.47	.68 .62	28.56 26.28
090 LITTLE FALLS I N	1.28	.85	1.96	2.20	3.20	4.28	4.13	3.47	2.78	2.55	1.71	.92	29.48
092 LUTSEN 3 NNE	1.68	1.18	1.40	1.64	3.06	3.95	3.96	3.80	3.53	3.04	2.89	1.55	31.68
093 LUVERNE	.62	.67	2.09	2.63	3.32	4.15	3.58	3.33	2.57	2.19	1.76	.79	27.70
094 MADISON SEWAGE PLANT	.75	.65	1.49	2.19	2.94	3.77	3.52	2.90	2.15	2.29	1.30	. 46	24.41
095 MAHNOMEN 1 W	.90 1.07	.65 .62	1.06 2.09	1.47	2.50 3.59	4.21 5.60	3.35 4.38	3.12 4.43	2.42 3.10	2.17	1.04 2.02	.67 .99	23.56 33.42
090 MANKATO	.90	.66	1.68	2.41	3.54	4.74	4.16	4.02	3.35	2.43	1.64	.90	30.50
098 MARCELL 5 NE	.90	.75	1.19	1.72	2.86	4.44	4.33	3.33	3.01	2.54	1.64	.93	27.64
099 MARSHALL	.83	.58	1.83	2.34	3.13	3.73	3.55	3.09	2.28	1.96	1.63	.79	25.74
100 MELROSE	.88	.65	1.60	2.17	3.26	4.29	3.67	3.49	2.78	2.44	1.50	.64	27.37
101 MILACA	.74	.57	1.36	2.00	3.16	4.34	3.92	4.04	2.91	2.29	1.68	.72	27.73
102 MILAN 1 NW 103 MINNEAPOLIS INTL AP	1.04	.64 .79	1.49	2.09	2.77	3.80 4.34	3.96	3.06 4.05	2.31 2.69	2.26	1.14	1.00	24.71
104 MINNEOTA	.69	.56	1.75	2.31	3.01	4.15	3.65	2.88	2.31	2.02	1.38	.50	25.21
105 MINNESOTA CITY DAM 5	.98	.79	1.81	3.39	3.76	3.96	4.66	4.38	3.47	2.21	2.22	.97	32.60
106 MONTEVIDEO 1 SW	.91	.91	1.64	2.24	3.17	4.23	3.43	3.14	2.26	1.97	1.46	.71	26.07
107 MONTGOMERY	.93	.69	1.82	2.51	3.39	4.42 4.50	4.26	4.51	3.12	2.15	1.71	.98	30.49
108 MOOSE LAKE 1 SSE 109 MORA	.94	.69	1.48	1.92	2.99	3.93	4.35	4.07	3.51	2.49	1.86	.83	29.63
110 MORRIS WC EXP STN	.85	.69	1.52	2.01	2.84	3.97	3.95	3.30	2.16	2.30	1.22	.58	25.39
111 NEW LONDON	1.14	.78	2.02	2.36	3.56	5.45	4.10	3.94	3.31	2.42	1.67	.92	31.67
112 NEW ULM 2 SE	.74	.68	2.04	2.59	3.43	4.51	3.98	4.04	2.77	2.13	1.87	.76	29.54
113 OKLEE 114 OLIVIA 3 SE	.63	.51 .45	1.02	1.32	2.56	3.51 4.47	3.94	3.81	2.59	1.96	.96 1.41	.53	23.34 25.98
114 OLIVIA 3 SE 115 ONAMIA RANGER STATION	.67	.53	1.27	2.33	2.57	3.51	3.38	2.93	2.73	2.04	1.41	.66	23.44
116 ORWELL DAM	.73	.38	1.27	1.35		2.95	3.16	2.98		2.23	.94	.44	20.79
117 OTTERTAIL	.88	.61	1.39	1.98		4.64	3.99	3.38	2.48		1.17	.55	26.67
118 OWATONNA	1.01	.59	1.91	2.94		4.05	4.58		3.12	2.27	1.82	.99	31.64
119 PARK RAPIDS 2 S 120 PELICAN RAPIDS	.65 .72	.50 .48	1.15	1.71	2.83	4.21 4.08	4.09 3.73		2.88		1.13	.58 .56	26.10 23.75
121 PINE RIVER DAM	1.04	.69	1.66	2.06	3.29	4.23	4.28	3.57	2.83	2.66	1.79	.77	28.87
122 PIPESTONE	.55	.51	1.72	2.41	3.32	3.93	3.31	3.10	2.76	2.22	1.52	.60	25.95
123 POKEGAMA DAM	.90	.61	1.21	1.64	2.92	4.50	4.64	3.83	3.18	2.66	1.48	.82	28.39
124 PRESTON	1.01	.86	1.93	3.24	3.92	4.59	4.70	4.70	3.57		2.14	1.29	34.29
125 RED LAKE FALLS 126 RED LAKE INDIAN AGENCY	.66 .70	.55 .46	.92 .78	1.33	2.50 2.72	3.79 3.80	3.54 4.14	3.69	2.60	1.89	1.08	.50	23.05 23.27
126 RED LAKE INDIAN AGENCY	1.14	.82	1.94	3.18	3.75	4.05	4.14	3.43 4.67		2.13	2.26	1.13	33.41
128 RED WING DAM 3	.81	.64	1.71	2.73	3.49	4.03	4.25	3.97	3.48	2.17	1.81	.86	29.95
129 REDWOOD FALLS MUNICIPAL	.70	.61	1.65	2.51	3.11	4.09	3.80	3.61	2.48	1.88	1.60	.60	26.64
130 REMER NO 2	.90	.55	1.39	1.77	3.09	4.28	4.54	3.63	2.98	2.70	1.60	.73	28.16
131 RIVERTON 132 ROCHESTER MUNICIPAL AP	.88	.56 .75	1.51 1.88	1.92	3.31 3.53	4.68 4.00	4.24	4.04	2.98	2.50	1.65 2.01	.73 1.02	29.00 31.40
132 ROCHESTER MUNICIPAL AP	.94	.75	1.45	2.33	3.33	4.00	4.01	4.33	2.85	2.20	1.79	.92	28.58
134 ROSEAU 1 E	.68	.50	.58	1.15	2.24	3.71	3.33	3.09	2.57	1.49	.80	.62	20.76
135 ROSEMOUNT AGRI EXP STN	1.22	.86	2.25	2.87	4.00	4.60	4.68	4.63	3.50	2.52	2.34	1.13	34.60
136 ROTHSAY	.73	.50	1.24			3.50			2.31		1.08	. 47	23.05
137 ROYALTON 5 W 138 ST CLOUD MUNICIPAL AP	.72	.54	1.38 1.50	1.87	3.50 2.97	3.47	3.58	3.62 3.93	2.63	2.17		.55 .69	25.44 27.13
130 DI CHOOD MONICIPAL AP	. / 0	.39	1.30	2.13	4.91	4.0T	3.34	3.93	4.93	4.44	1.04	.09	27.13



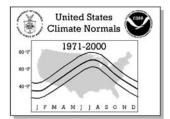
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

1													
No. Station Name  139 ST FRANCIS 4 S 140 ST JAMES FILT PLANT 141 ST PAUL 142 ST PETER 2 SW 143 SANDY LAKE DAM LIBBY 144 SANTIAGO 3 E 145 SPRINGFIELD 1 NW 146 SPRING GROVE 147 STEWART 148 STILLWATER 1 SE 149 TAMARAC WILDLIFE REF 150 THEILMAN 151 THIEF RIVER FALLS 2 152 THORHULT 1 S 153 TOWER 3 S 154 TRACY 155 TWO HARBORS 156 TYLER 157 VESTA 158 VIRGINIA 159 WABASHA 160 WADENA 3 S 161 WALKER AH GWAH CHING 162 WANNASKA 1 S 163 WARROAD 164 WASECA EXP STATION 165 WASKISH 4 NE 166 WELLS 167 WHEATON 168 WHITEFACE RESERVOIR 169 WILLMAR STATE HOSPITAL 170 WINDOM 171 WINNEBAGO 172 WINNIBIGOSHISH DAM 173 WINONA 174 WINONA DAM 5 A 175 WINSTED 176 WINTSTED 177 WORTHINGTON 2 NNE 178 WRIGHT 4 NW 179 YOUNG AMERICA	JAN	FEB		APR	MAY	JUN	JUL	AUG	SEP			DEC	ANNUAL
139 ST FRANCIS 4 S	1.03	.86	1.55		3.19	4.38		4.83			1.86	.89	30.42
140 ST JAMES FILT PLANT	.52	.41	1.77	l		4.45		3.64			1.48	.65	27.69
141 ST PAUL	1.02	.78	1.92		3.73		l	4.37	2.76	2.51	1.69	1.04	32.59 29.67
143 SANDY LAKE DAM LIBBY	84	.56	1.21	1.75	3.04	4.55	4.63	3.99	3.05		1.24	.70	27.92
144 SANTIAGO 3 E	1.11	.86	1.71	2.37	3.22	4.44	4.15	4.59	2.87		1.86	.89	30.55
145 SPRINGFIELD 1 NW	.65	.64	1.94	2.80	3.26	3.92	3.55	3.36	2.42	1.99	1.69	.61	26.83
146 SPRING GROVE	.81	.70	1.80	3.56	3.76	4.44		4.80	3.28		2.13	.92	33.24
147 STEWART	.87	.65	1.76		3.02		l	4.39			1.99	.76	29.08
148 STILLWATER 1 SE	1.02	.72	1.78	2.86	3.58	4.77	4.70	4.92	3.57		2.15	.93 .55	33.61 23.86
150 THETIMAN	.//	.44 .71	1.04 1.85	1.29	2.26	4.14 4.22	3.87 4.84	4.32	2.77		1.03	1.00	32.40
151 THIEF RIVER FALLS 2	. 22	.28	.44	.96	2.59	3.39	3.43		2.44	1.68	.86	.26	19.69
152 THORHULT 1 S	.44	.34	.72	1.28	2.74	3.87	3.71	3.99	2.81	1.85	.85	.47	23.07
153 TOWER 3 S	.76	.70	.99	1.57		4.49	4.42	4.29	4.00		1.33	.61	29.11
154 TRACY	.65	.54	1.93	2.71	3.37	4.00	3.23	3.09	2.76	1.98	1.67	.65	26.58
155 TWO HARBORS	.99	.74	1.63	ı	2.93	4.11	4.29		4.06		2.14	1.06	30.51
156 TYLER	.65	.54	1.67	2.41	3.41	4.14	3.36	3.16	2.56	2.01	1.58	.64	26.13
157 VESTA	.84	.68	1.90	l		4.06			2.71		1.69	.64	27.86
158 VIRGINIA	1 .85	.54 .80	1.11 1.97	l	2.73	4.64		3.74 4.34			1.41 2.25	.69 1.17	27.05 33.45
160 WADENA 3 S	95	.61	1.60	1.98	3.01	4.23	3.64	3.15	2.60		1.48	.60	26.44
161 WALKER AH GWAH CHING	.80	.60	1.36	1	3.01	4.05	1	3.69	2.91		1.40	.78	27.50
162 WANNASKA 1 S	.61	.43	.84	1.32	2.59	3.99	3.49	2.58	2.66		1.15	.55	21.91
163 WARROAD	.63	.55	.69	1.21	2.40	3.78	3.64	2.95	2.62	1.80	1.19	.63	22.09
164 WASECA EXP STATION	1.38	.95	2.49	3.23	3.96	4.19	4.47		3.19		2.32	1.40	34.72
165 WASKISH 4 NE	.64	.51	.79		2.40	3.97			2.96		1.25	.57	24.28
166 WELLS	.59	.44	1.52	2.63	3.70	4.67	1		2.58		1.64	.76	29.52
160 WHEATON	1 .92	.55 .75	1.50 1.31	1.95	2.54	3.77 4.10	3.11	2.53	2.10		1.16 1.77	.54	22.54 28.02
169 WILLMAR STATE HOSPITAL	82	.62	1.54	2.13	3.22	5.16			2.80		1.55	.66	28.21
170 WINDOM	.79	.64	2.06	2.88	3.58	4.47			2.60		1.80	.76	29.00
171 WINNEBAGO	.88	.69	1.84	2.98	3.95	4.58		4.21	2.65		1.86	1.01	31.19
172 WINNIBIGOSHISH DAM	.88	.61	1.29	1.64	2.88	4.01	4.57	3.69	2.98	2.68	1.52	.83	27.58
173 WINONA	1.44	.74	1.78	ı	3.93	4.16	4.39	4.72	3.85		2.18	1.30	34.20
174 WINONA DAM 5 A	.94	.84	1.87		3.74	3.88	4.20	4.14	3.44		2.18	1.03	31.77
175 WINSTED	1 .55	.44 .76	1.53	l	3.44	4.09		4.15	2.98		1.57 1.66	.55	27.91 27.94
177 WODTHINGTON 2 NNE	70	. 76	1.24	l	3.37	4.19			3.63 2.55	2.40 1.96		.99 .70	27.79
178 WRIGHT 4 NW	. 95	.67	1.41		3.27				3.36	2.50		.83	29.46
179 YOUNG AMERICA	.87	.75	1.88	1	3.34				2.95			.88	30.66



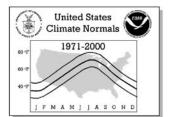
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
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							DEGE	PEE DAY	<b>YS</b> (Tota	1)				
No. Station Name	Elemen	t JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
001 ADA	HDD CDD	1879 0	1488	1237 0	686 1	296 34	84 103	29 178	57 163	251 22	641 0	1170 0	1664 0	9482 501
002 AGASSIZ REFUGE	HDD	2007	1597	1347	780	367	130	57	99	321	722	1268	1799	10494
003 AITKIN 2 E	CDD HDD	0 1801	0 1421	0 1194	721	26 372	70 128	128 63	111 89	9 299	0 653	0 1107	0 1613	344 9461
004 ALBERT LEA 3 SE	CDD HDD	0 1659	0 1314	0 1066	0 614	20 260	47 46	114 20	75 37	3 175	0 539	0 1006	0 1487	259 8223
005 ALEXANDRIA CHANDLER AP	CDD HDD	0 1772	0 1394	0 1174	2 675	42 301	128 91	227 30	166 52	28 240	1 616	0 1109	0 1592	594 9046
006 ARGYLE 4 E	CDD HDD	0 1935	0 1537	0 1280	725	31 335	93 128	187 52	139 83	22 288	0 671	0 1201	0 1716	474 9951
007 ARTICHOKE LAKE	CDD HDD	0 1712	0 1347	0 1118	2 614	34 241	87 61	136 24	120 34	10 180	0 541	0 1061	0 1535	389 8468
008 AUSTIN 3 S	CDD HDD	0 1678	0 1322	0 1062	5 607	45 279	131 61	236 31	177 57	33 204	0 559	0 1034	0 1517	627 8411
009 BABBITT 2 SE	CDD HDD	0 1809	0 1419	0 1219	2 741	40 350	116 124	186 68	131 100	23 310	0 673	0 1157	0 1644	498 9614
	CDD	0	0	0	0	27	46	118	84	8	0	0	0	283
010 BAUDETTE	HDD CDD	1898 0	1489 0	1256 0	721 1	333 32	110 69	42 137	79 114	283 10	645 0	1171 0	1704 0	9731 363
012 BEMIDJI	HDD CDD	1834 0	1449 0	1210 0	719 0	336 28	117 65	56 145	84 103	291 8	643 0	1157 0	1644 0	9540 349
013 BENSON	HDD CDD	1699 0	1325 0	1085 0	592 3	236 49	51 135	18 235	31 178	172 34	532 0	1042 0	1525 0	8308 634
014 BIG FALLS	HDD	1853	1441	1208	712	333	128	56	103	311	660	1176	1669	9650
016 BRAINERD	CDD HDD	0 1846	0 1472	0 1223	700	28 322	62 107	114 34	97 73	7 294	0 657	0 1124	0 1624	308 9476
018 BRIMSON 1 E	CDD HDD	0 1914	0 1534	0 1317	0 849	25 484	75 204	145 101	107 156	12 383	0 762	0 1210	0 1720	364 10634
019 BROWNS VALLEY	CDD HDD	0 1715	0 1342	0 1118	0 619	6 259	19 69	51 19	36 39	1 196	0 567	0 1056	0 1535	113 8534
	CDD	0	0	0	4	45	129	245	194	37	0	0	0	654
020 BRUNO 7 ENE	HDD CDD	1835	1463 0	1228 0	742	401 15	153 24	70 94	108 66	327 5	685 0	1144 0	1639 0	9795 204
021 BUFFALO	HDD CDD	1701 0	1350 0	1107 0	627 2	266 43	60 126	19 216	37 156	197 24	543 0	1012 0	1510 0	8429 567
022 CALEDONIA	HDD CDD	1615 0	1280	1051	607 2	284 35	61 110	15 193	44 148	192 24	541 1	992	1447	8129 513
023 CAMBRIDGE STATE HOSP	HDD CDD	1713 0	1343	1111	631 1	279 34	89 94	36 191	62 136	237	598 0	1066	1538	8703 474
024 CAMPBELL	HDD	1808	1428	1178	644	278	79	26	40	210	593	1107	1610	9001
025 CANBY	CDD HDD	0 1589	0 1248	0 1044	2 589	44 232	116 47	200 15	165 23	29 154	0 497	0 982	0 1428	556 7848
027 CASS LAKE	CDD HDD	0 1912	0 1513	0 1256	767	45 376	150 139	269 52	210 86	48 303	1 682	0 1182	0 1708	726 9976
028 CEDAR	CDD HDD	0 1679	0 1314	0 1078	0 598	25 262	67 78	122 24	93 41	9 196	0 548	0 1037	0 1512	316 8367
	CDD	0	0	0	2	42	103	190	137	26	0	0	0	500
029 CHASKA	HDD CDD	1588 0	1241 0	994 0	519 5	195 67	29 171	9 288	19 216	126 53	463 3	951 0	1415 0	7549 803
030 CLOQUET	HDD CDD	1735 0	1377 0	1185 0	731 0	363 12	133 40	50 120	85 90	277 7	640 0	1099 0	1570 0	9245 269
032 COLLEGEVILLE ST JOHN	HDD CDD	1676 0	1305	1074	584 4	232	54 130	16 239	24 180	159 33	507 0	1017	1506 0	8154 635
033 COOK 18 W	HDD CDD	1835	1432	1202	724	364 21	146 44	65 104	106 81	312	667	1148	1642	9643 256
034 COTTON	HDD	1898	1501	1275	791	423	176	74	127	349	705	1179	1697	10195
035 CROOKSTON NW EXP STN	CDD HDD	1900	1508	1255	701	9 306	93	70 39	58 58	257	652	1186	1687	173 9642
037 DEEP PORTAGE	CDD HDD	1893	1498	1238	731	38	101	178 56	149 81	17 299	0 669	1166	1689	484 9768
038 DELANO	CDD HDD	0 1715	0 1350	0 1094	0 619	23 261	56 58	131 18	95 35	7 198	0 563	0 1065	0 1555	312 8531
039 DETROIT LAKES 1 NNE	CDD HDD	0 1829	0 1438	0 1183	1 661	39 290	114 106	220 44	152 72	26 234	0 599	0 1124	0 1632	552 9212
040 DULUTH HARBOR STA	CDD HDD	0 1693	0	0	2 794	37 516	95 231	174 72	160 88	21 274	0 614	0	0 1500	489 9371
VIO DODOTH HARDOR SIA	CDD	0	0	0	794	0	16	96	97	15	0	0	0	224



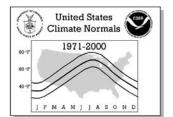
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
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No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	DEGF JUN	JUL	<b>YS</b> (Tota AUG	l) SEP	ОСТ	NOV	DEC	ANNUAL
041	DULUTH INTL AP	HDD*	1771	1422	1244	787	421	180	69	106	331	682	1124	1587	9724
042	ELBOW LAKE	CDD* HDD	0 1835	0 1440	0 1213	0 679	7 293	28 94	82 33	60 45	12 243	0 625	0 1122	0 1627	189 9249
		CDD	0	0	0	1	30	92	175	137	18	0	0	0	453
045	EVELETH WASTE WATER PLT	HDD CDD	1858 0	1482 0	1264 0	782 0	398 18	146 43	74 105	105 72	340 5	719 0	1185 0	1672 0	10025 243
046	FAIRMONT	HDD	1599	1252	1016	563	227	34	12	27	154	494	986	1456	7820
047	FARIBAULT	CDD HDD	0 1655	0 1311	0 1065	4 604	61 268	157 56	249 19	193 31	51 179	1 521	0 991	0 1463	716 8163
048	FARMINGTON 3 NW	CDD HDD	0 1611	0 1257	0 1019	2 539	43 213	132 38	225 14	158 25	31 156	1 488	0 973	0 1440	592 7773
		CDD	0	0	0	4	60	144	236	171	42	1	0	0	658
049	FERGUS FALLS	HDD CDD	1818	1446 0	1205 0	672 1	285 29	93 105	27 181	57 158	240 27	617 0	1120 0	1618 0	9198 501
050	FLOODWOOD 3 NE	HDD	1883	1492	1283	790	440	173	97	128	356	715	1174	1682	10213
051	FOREST LAKE 5 NE	CDD HDD	0 1623	0 1268	0 1041	0 568	11 238	28 65	75 16	52 37	3 175	0 491	969	0 1450	169 7941
0.53	EOGGEON 1 E	CDD	1027	1520	1 2 2 0	3	61	137	220	177	46	3	0	1714	647
053	FOSSTON 1 E	HDD CDD	1937 0	1538 0	1289 0	758 0	358 25	132 63	64 115	94 93	325 10	697 0	1210 0	1714 0	10116 306
054	GAYLORD	HDD	1683 0	1326 0	1084	621 2	242 46	45 142	18 249	32 173	188	549 0	1026	1505 0	8319
055	GEORGETOWN 1 E	CDD HDD	1822	1430	1170	633	259	76	249	47	28 217	583	0 1139	1634	640 9037
056	GLENWOOD 2 WNW	CDD HDD	0 1704	0 1338	0 1103	2 601	40 253	114 76	198 28	172 40	27 201	0 553	0 1051	0 1526	553 8474
030	GLENWOOD Z WNW	CDD	0	0	0	3	40	117	210	160	30	0	0	0	560
058	GRAND MARAIS	HDD CDD	1584 0	1302	1162 0	801 0	557 0	350 1	170 31	128 54	303 6	634 0	999 0	1413 0	9403 92
059	GRAND MEADOW	HDD	1654	1324	1108	654	305	62	28	53	205	557	1000	1473	8423
060	GRAND PORTAGE RNG STN	CDD HDD	0 1775	0 1462	0 1256	1 838	35 484	108 238	186 101	135 130	25 343	0 683	0 1087	0 1588	490 9985
		CDD	0	0	0	0	2	8	51	51	2	0	0	0	114
061	GRAND RAPIDS FOREST LAB	HDD CDD	1819 0	1428	1198 0	719 0	353 20	122 58	47 120	92 90	310 7	661 0	1142	1642 0	9533 295
062	GULL LAKE DAM	HDD	1850	1457	1246	750	352	109	48	76	279	661	1133	1650	9611
063	GUNFLINT LAKE 10 NW	CDD HDD	0 1947	0 1560	0 1335	0 830	22 421	67 187	150 70	111 133	11 393	0 749	0 1202	0 1745	361 10572
064	IINI I OOV	CDD	0 1977	0 1580	0 1333	0 764	15 346	30 120	73 48	57 87	3 315	0 707	0 1236	0 1767	178 10280
004	HALLOCK	HDD CDD	0	1300	1333	1	340	91	145	125	11	0	0	0	405
067	HASTINGS DAM 2	HDD CDD	1659 0	1306 0	1077 0	586 2	254 38	50 126	15 235	27 180	167 39	506 1	988 0	1469 0	8104 621
068	HAWLEY 3 NE	HDD	1900	1492	1236	699	312	98	26	58	267	676	1158	1706	9628
069	HIBBING CHISHOLM AP	CDD HDD	0 1853	0 1465	0 1244	2 768	39 395	90 154	173 61	153 110	21 348	0 714	0 1185	0 1681	478 9978
		CDD	0	0	0	0	14	36	89	65	4	0	0	0	208
070	HINCKLEY	HDD CDD	1771 0	1399 0	1150 0	673 0	330 22	98 63	33 143	69 105	279 13	635 0	1079 0	1586 0	9102 346
072	HUTCHINSON 1 N	HDD	1708	1336	1090	596	240	44	14	31	174	545	1032	1529	8339
074	INTL FALLS AP	CDD HDD*	0 1946	0 1531	0 1298	3 775	47 378	132 140	235 55	165 102	26 360	723	0 1217	0 1744	608 10269
077	ISLE 12 N	CDD* HDD	0 1810	0 1446	0 1213	1 736	17 357	47 112	91 51	67 67	10 257	0 622	0 1080	0 1604	233 9355
077	ISLE IZ N	CDD	0	0	0	0	22	53	143	100	11	0	0 0	0	329
078	ITASCA UNIV OF MINNESOT	HDD CDD	1927 0	1535 0	1308 0	814 0	406 17	155 55	68 100	104 82	358 6	733 0	1225 0	1726 0	10359 260
079	JORDAN 1 S	HDD	1733	1378	1127	663	299	71	23	60	241	582	1071	1557	8805
080	KARLSTAD	CDD HDD	0 1999	0 1584	0 1306	0 742	30 339	95 131	159 63	114 96	18 302	0 687	0 1228	0 1779	416 10256
		CDD	0	0	0	1	29	79	138	117	11	0	0	0	375
081	KELLIHER	HDD CDD	1926 0	1517 0	1278 0	749 1	377 24	141 58	65 111	112 84	331 5	695 0	1198 0	1737 0	10126 283
085	LAKE WILSON	HDD	1649	1297	1079	609	248	49	19	36	172	539	1032	1498	8227
086	LAMBERTON SW EXP STN	CDD HDD	0 1641	0 1297	0 1062	3 604	45 249	133 38	233 19	179 33	37 178	0 535	0 1016	0 1484	630 8156
088	LEECH LAKE DAM	CDD HDD	0 1862	0 1443	0 1215	4 703	59 335	147 99	237 37	167 70	35 278	0 658	0 1136	0 1659	649 9495
000	DESCR DAME DAM	CDD	1862	0	0	0	23	69	140	106	278	0 0 0	0	1659	347



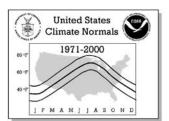
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

No. Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	<b>YS</b> (Tota AUG	I) SEP	ОСТ	NOV	DEC	ANNUAL
089 LITCHFIELD	HDD	1746	1368	1140	630	270	67	19	39	206	573	1065	1570	8693
090 LITTLE FALLS 1 N	CDD	0 1714	0 1344	1104	2 613	44 257	125	212	152 31	25	539	0 1045	0 1539	560
090 LITTLE FALLS I N	HDD CDD	1/14	1344	1104 0	913	⊿57 52	58 119	18 226	170	185 32	0	1045	1539	8447 602
091 LONG PRAIRIE	HDD	1723	1348	1117 0	617	262	65	21	38	200	558	1062	1545	8556
092 LUTSEN 3 NNE	CDD HDD	0 1844	0 1536	1362	3 893	46 520	110 243	205 127	153 164	24 404	764	0 1177	0 1640	541 10674
	CDD	0	0	0	0	5	13	46	32	1	0	0	0	97
093 LUVERNE	HDD CDD	1633 0	1288 0	1051 0	610 3	249 40	47 133	21 242	36 185	188 41	555 0	1037 0	1488	8203 644
094 MADISON SEWAGE PLANT	HDD	1702	1333	1114	618	251	67	22	46	195	555	1052	1533	8488
095 MAHNOMEN 1 W	CDD HDD	0 1943	0 1535	0 1294	752	38 342	152 121	248 51	181 84	31 307	703	0 1212	0 1727	653 10071
096 MANKATO	CDD HDD	0 1628	0 1277	0 1042	0 583	27 251	79 53	125 14	120 32	13 178	0 520	0 990	0 1461	364 8029
U96 MANKAIO	CDD	0	0	0	2	51	145	234	179	38	1	990	1401	650
097 MAPLE PLAIN	HDD CDD	1614 0	1284 0	1044	575 3	236 52	61 123	17 215	34 156	174 37	529 1	981 0	1434 0	7983 587
098 MARCELL 5 NE	HDD	1909	1540	1279	777	395	148	66	97	334	702	1185	1703	10135
000 117 0177 7	CDD	0	0	0	0	16	48	100	80	5	0	0	0	249
099 MARSHALL	HDD CDD	1571 0	1219 0	1007 0	548 5	199 64	32 164	11 272	23 225	141 70	466 2	962 0	1413	7592 802
100 MELROSE	HDD	1702	1333	1097	603	247	58	18	31	182	536	1045	1522	8374
101 MILACA	CDD HDD	0 1769	0 1395	0 1158	2 668	48 316	128 96	231 32	172 55	33 255	633	0 1078	0 1587	614 9042
	CDD	0	0	0	1	25	83	162	107	13	0	0	0	391
102 MILAN 1 NW	HDD CDD	1670 0	1301	1055 0	565 4	223 54	44 140	16 238	33 180	181 37	530 0	1039 0	1507 0	8164 653
103 MINNEAPOLIS INTL AP	HDD*	1616	1273	1034	560	222	44	7	20	178	516	978	1428	7876
106 MONTEVIDEO 1 SW	CDD* HDD	0 1682	0 1312	0 1072	4 601	41 247	146 51	259 25	190 38	56 180	3 537	0 1044	0 1514	699 8303
106 MONIEVIDEO I SW	CDD	0	0	0	3	40	126	237	180	35	1	0	1314	622
108 MOOSE LAKE 1 SSE	HDD	1753	1385	1166	710	353	125	46	83	268	628	1094	1585	9196
109 MORA	CDD HDD	0 1785	0 1411	0 1164	0 669	12 321	41 94	125 34	105 73	13 271	634	0 1093	0 1596	296 9145
	CDD	0	0	0	0	22	77	153	114	13	0	0	0	379
110 MORRIS WC EXP STN	HDD CDD	1757 0	1390	1145 0	631 2	266 46	66 122	20 207	39 162	211 29	588	1081	1564 0	8758 568
111 NEW LONDON	HDD	1718	1342	1109	612	250	58	17	30	185	541	1061	1549	8472
112 NEW ULM 2 SE	CDD HDD	0 1580	0 1227	0 979	529	48 215	126 45	228 23	173 33	38 143	0 460	0 957	0 1422	617 7613
112 11211 0211 2 02	CDD	0	0	0	10	69	171	270	201	55	2	0	0	778
113 OKLEE	HDD CDD	1950 0	1551 0	1309 0	759 0	355 23	131 71	58 122	86 103	323 9	709 0	1223 0	1731 0	10185 328
114 OLIVIA 3 SE	HDD	1709	1337	1098	612	251	51	20	42	203	558	1051	1542	8474
117 OTTERTAIL	CDD	0 1743	1260	0 1128	3	52	136	219	160	35	0	0 1063	0 1556	605
II/ OIIERIAIL	HDD CDD	0	1369 0	0	621	250 49	64 126	22 232	34 186	190 38	542 0	0	1330	8582 634
118 OWATONNA	HDD	1664	1309	1054	587	262	44	17	31	164	501	1005	1490	8128
119 PARK RAPIDS 2 S	CDD HDD	0 1857	0 1451	0 1207	3 697	53 320	144 109	238 36	180 57	40 261	643	0 1170	0 1675	659 9483
	CDD	0	0	0	2	35	82	158	118	17	0	0	0	412
121 PINE RIVER DAM	HDD CDD	1833	1430 0	1197 0	720 0	342 23	106 68	41 148	78 113	276 12	643	1112 0	1635 0	9413 364
122 PIPESTONE	HDD	1670	1318	1079	616	271	66	22	43	209	571	1051	1506	8422
123 POKEGAMA DAM	CDD HDD	0 1875	0 1459	0 1212	722	44 356	129 121	226 45	174 86	36 296	0 669	0 1150	0 1684	611 9675
	CDD	0	0	0	0	19	58	116	101	9	0	0	0	303
124 PRESTON	HDD CDD	1621 0	1284 0	1039 0	602 0	285 27	60 100	17 184	48 146	190 27	529 0	977 0	1443	8095 484
125 RED LAKE FALLS	HDD	1941	1544	1282	721	323	99	38	80	294	690	1218	1737	9967
126 RED LAKE INDIAN AGENCY	CDD HDD	0 1931	0 1538	0 1310	1 813	30 411	81 166	140 71	134 112	12 348	0 716	0 1208	0 1729	398 10353
120 KBD DAKE INDIAN AGENCI	CDD	0	0	0	0	22	49	100	89	5	0	0	0	265
128 RED WING DAM 3	HDD CDD	1644 0	1304	1057 0	579 2	243 41	51 130	13 231	27 178	166 34	522 1	983 0	1443 0	8032 617
129 REDWOOD FALLS MUNICIPAL		1613	1265	1016	547	210	30	16	31	152	493	988	1458	7819
	CDD	0	0	0	4	63	166	278	215	53	1	0	0	780



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
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No. Station Name	Element	JAN	FEB	MAR	APR	MAY	DEGR JUN	JUL	<b>YS</b> (Tota AUG	l) SEP	OCT	NOV	DEC	ANNUAL
130 REMER NO 2	HDD CDD	1866 0	1454 0	1215 0	735 0	357 22	131 50	55 115	97 74	316 5	667 0	1144	1666 0	9703 266
132 ROCHESTER MUNICIPAL AP	HDD	1650	1305	1066	609	281	65	23	50	208	558	1014	1479	8308
134 ROSEAU 1 E	CDD HDD	0 2037	0 1617	0 1374	781	30 376	99 136	181 60	135 111	26 337	729	0 1267	1803	473 10628
135 ROSEMOUNT AGRI EXP STN	CDD HDD	0 1706	0 1343	0 1076	0 594	28 268	61 53	104 20	106 36	6 183	0 522	0 1023	0 1521	305 8345
	CDD	0	0	0	2	36	114	205	147	28	1	0	0	533
136 ROTHSAY	HDD CDD	1855 0	1453 0	1219 0	671	283 40	80 112	32 201	47 170	234 26	620	1146 0	1650 0	9290 552
138 ST CLOUD MUNICIPAL AP	HDD* CDD*	1742 0	1381 0	1135 0	637 2	285 26	79 90	19 172	49 121	253 31	604 1	1077 0	1554 0	8815 443
140 ST JAMES FILT PLANT	HDD CDD	1629 0	1285 0	1055 0	605 3	243 54	37 147	17 247	33 186	164 41	515 0	995 0	1465 0	8043 678
141 ST PAUL	HDD	1567 0	1221	999	540	217 56	45 145	13 258	21 199	145 49	475	952 0	1411	7606
142 ST PETER 2 SW	CDD HDD	1628	1297	1045	593	251	55	22	36	170	521	996	1458	715 8072
143 SANDY LAKE DAM LIBBY	CDD HDD	0 1847	0 1443	0 1206	716	60 334	151 107	251 42	190 72	37 265	0 645	0 1117	0 1654	693 9448
144 SANTIAGO 3 E	CDD HDD	0 1671	0 1299	0 1071	0 587	21 246	72 67	141 24	111 38	11 188	0 535	0 1023	0 1495	356 8244
	CDD	0	0	0	3	50	116	212	151	23	0	0	0	555
145 SPRINGFIELD 1 NW	HDD CDD	1657 0	1307 0	1074 0	616	262 55	47 134	20 212	40 148	184 31	539	1024 0	1496 0	8266 583
147 STEWART	HDD CDD	1675 0	1301	1057 0	586 4	239 50	46 149	13 252	27 183	158 37	507 1	998 0	1503 0	8110 676
148 STILLWATER 1 SE	HDD CDD	1578 0	1237 0	999 0	535 5	213 65	35 161	8 278	17 214	135 49	461 3	931 0	1403 0	7552 775
149 TAMARAC WILDLIFE REF	HDD	1933	1520	1293	753	353	116	48	76	290	674	1185	1721	9962
150 THEILMAN	CDD HDD	0 1641	0 1303	0 1058	594	21 293	66 65	136 22	107 36	12 203	531	0 988	0 1454	342 8188
151 THIEF RIVER FALLS 2	CDD HDD	0 1915	0 1507	0 1260	710	42 318	120 115	208 45	151 65	25 277	1 662	0 1218	0 1730	551 9822
152 THORHULT 1 S	CDD HDD	0 1887	0 1476	0 1234	720	43 356	96 140	158 63	131 92	18 308	0 664	0 1181	0 1698	448 9819
	CDD	0	0	0	1	29	68	129	105	6	0	0	0	338
153 TOWER 3 S	HDD CDD	1983 0	1602 0	1375 0	867	492 8	237 24	128 43	191 37	444 1	807	1264 0	1784 0	11174 113
154 TRACY	HDD CDD	1637 0	1294 0	1080 0	618	258 49	48 138	16 237	35 178	184 39	539 0	1021 0	1477 0	8207 644
155 TWO HARBORS	HDD CDD	1590 0	1291 0	1132 0	767 0	515 0	280 6	125 76	106 85	274 11	607 0	990 0	1419 0	9096 178
156 TYLER	HDD	1587	1266	1052	596	263	54	24	37	177	515	1011	1442	8024
158 VIRGINIA	CDD HDD	0 1860	0 1460	0 1248	768	44 396	116 165	218 89	166 123	35 342	713	0 1199	0 1676	582 10039
160 WADENA 3 S	CDD HDD	0 1853	0 1481	0 1248	721	17 343	41 120	92 52	61 77	3 293	0 666	0 1153	0 1649	214 9656
161 WALKER AH GWAH CHING	CDD HDD	0 1816	0 1413	0 1197	708	27 326	67 105	130 41	97 76	11 280	0 645	0 1140	0 1645	332 9392
	CDD	0	0	0	0	26	73	146	114	12	0	0	0	371
162 WANNASKA 1 S	HDD CDD	2016 0	1596 0	1343 0	778	391 23	150 50	78 100	114 86	345 6	726	1268 0	1807 0	10612 266
163 WARROAD	HDD CDD	1988 0	1588 0	1358 0	830	397 21	130 65	57 128	89 103	328 5	711	1227 0	1769 0	10472 322
164 WASECA EXP STATION	HDD CDD	1676 0	1319	1075	606	259 53	53 136	15 210	39 159	182 37	538	1008	1495	8265 598
165 WASKISH 4 NE	HDD	1958	1543	1291	761	364	128	60	95	322	700	1208	1728	10158
167 WHEATON	CDD HDD	0 1678	1309	0 1075	574	30 215	70 47	126 14	92 23	5 151	498	1033	0 1506	323 8123
169 WILLMAR STATE HOSPITAL	CDD HDD	0 1740	0 1368	0 1130	5 627	50 258	150 65	262 15	219 38	49 200	0 569	0 1063	0 1561	735 8634
170 WINDOM	CDD HDD	0 1620	0 1274	0 1045	610	44 262	131 52	211 20	156 39	29 191	0 534	0 1017	0 1470	573 8134
	CDD	0	0	0	3	48	138	234	169	45	1	0	0	638
171 WINNEBAGO	HDD CDD	1639	1294	1056	598	257 57	45 143	17 234	28 166	171 38	522	993	1474	8094 641
172 WINNIBIGOSHISH DAM	HDD CDD	1898 0	1480 0	1234 0	740 0	352 22	114 67	42 129	73 100	293 8	676 0	1164 0	1697 0	9763 326
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

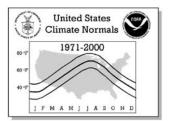
							DEGE	REE DAY	'S (Tota	I)				
No. Station Name	Elem	ent JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
173 WINONA	HDD CDD	1472	1139 0	910 0	468 11	176 88	22 203	5 339	8 259	102 84	400 6	839	1298 0	6839 990
176 WINTON POWER	PLANT HDD CDD	1934	1540	1316 0	814	381 18	137 42	54 115	98 87	339 4	721 0	1204	1726 0	10264 266
177 WORTHINGTON 2		1663	1317	1106	646 1	283 40	59 117	18 205	54 151	207 28	571 0	1049	1504	8477 542
178 WRIGHT 4 NW	HDD CDD		1407		731	374 11	154	67 92	102 76	297 6			1603	9468 217
	CDD	Ŭ	0	Ŭ			32	72	, 0				J	217
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# United States Climate Normals 1971-2000 60 F 40 F J F M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

							NODI	44100	T A TIOTI					
No.	Station Name Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	TATISTI AUG	SEP	OCT	NOV	DEC	ANNUAL
001	ADA HIGHEST MEAN	18.3	26.4	36.3	50.0	65.9	72.7	74.1	75.7	62.6	50.9	35.9	23.8	75.7
	MEDIAN	4.7	9.9	26.4	41.5	56.7	65.8	69.8	68.0	57.2	43.9	25.8	11.3	40.5
	LOWEST MEAN	-8.1	-2.5	15.5	33.3	48.5	59.8	63.6	62.7	50.7	40.2	15.0	-2.4	-8.1
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1979	1998 1979	1973 1996	1987 1979	1977 1979	1988 1982	1989 1992	1983 1977	1978 1993	1973 1993	1999 1985	1997 1983	1983 1979
	MIN OBS TIME ADJUSTMENT	1.5	1.9	2.3	1.5	0.0	-0.6	-0.1	-0.4	0.7	1.2	0.9	1.0	1979
	MAX OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	
002	AGASSIZ REFUG HIGHEST MEAN	13.9	24.1	35.8	48.0	62.2	69.9	71.8	70.2	61.1	48.0	34.4	20.0	71.8
	MEDIAN	0.9	5.6	22.5	39.2	54.3	63.0	67.5	65.6	54.2	41.8	22.5	6.0	36.8
	LOWEST MEAN HIGHEST MEAN YEAR	-14.9 1990	-5.8 1998	12.8	30.7 1987	44.9 1977	56.8 1995	60.2 1983	57.3 1983	50.7 1998	36.3 2000	13.6 1999	-4.8 $1997$	-14.9 1983
	LOWEST MEAN YEAR	1982	1979	1975	1979	1977	1982	1992	1977	1984	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.6	2.0	1.2	0.0	-0.8	-0.7	-0.6	-0.9	-0.5	0.4	0.9	1.1	
	MAX OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0	-0.1	0.3	
003	AITKIN 2 E HIGHEST MEAN	20.6	28.6	35.0	49.4	61.8	67.3	72.4	71.1	59.2	49.5	38.2	23.6	72.4
	MEDIAN LOWEST MEAN	8.0	12.7 2.6	26.3 17.2	41.1 35.8	54.9 46.9	62.5 56.4	66.3 59.1	64.6 59.5	55.1 50.4	44.2 36.3	28.3	12.9	39.7 -4.6
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1999	1983	1978	1973	1999	1997	1999
	LOWEST MEAN YEAR	1982	1989	1996	1995	1997	1982	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.5	1.1	0.0	-0.6	-0.7	-0.7	-0.5	-0.9	-0.5	0.5	0.1	1.1	
	MAX OBS TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.0	0.0	0.0	-0.1	0.3	== 0
004	ALBERT LEA 3 HIGHEST MEAN MEDIAN	25.0 12.0	30.7 17.9	40.1	51.5 44.9	64.5 57.7	73.2 67.3	77.8	75.9 69.2	66.4 59.7	53.4 47.4	41.1 31.1	25.8 19.3	77.8 44.2
	LOWEST MEAN	-4.3	2.5	22.5	37.2	51.6	62.4	64.9	64.4	54.8	42.3	24.1	2.7	-4.3
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1983	1983	1998	1975	1999	1998	1983
	LOWEST MEAN YEAR	1979	1979	1979	1979	1997	1982	1992	1992	1993	1977	1991	1983	1979
	MIN OBS TIME ADJUSTMENT	1.3	1.0	0.0	0.0	-0.6	-0.5	-0.5	-0.8	-0.5	-0.7	0.2	0.9	
005	MAX OBS TIME ADJUSTMENT ALEXANDRIA CH HIGHEST MEAN	0.3	0.6	0.5 36.4	0.5	0.4	0.3	0.1 75.5	0.0 73.7	-0.1 64.6	-0.1 51.2	0.0	0.1	75.5
003	MEDIAN	8.4	13.0	28.1	42.6	56.4	64.7	69.7	67.9	57.5	45.2	27.7	13.5	41.6
	LOWEST MEAN	-5.6	2.2	18.1	34.0	49.1	59.5	62.7	63.0	53.1	40.1	18.9	-1.4	-5.6
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1989	1975 0.0	1975	1979	1982	1992	1977	1974	1976 0.0	1985	1983	1982
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
006	ARGYLE 4 E HIGHEST MEAN	15.0	26.0	35.7	50.1	66.2	72.6	72.0	71.0	60.9	49.9	35.3	23.9	72.6
	MEDIAN	2.4	7.7	25.4	41.1	55.3	63.9	68.3	66.4	55.7	43.0	25.2	9.2	38.7
	LOWEST MEAN	-10.3	-5.2	11.7	31.5	47.6	56.4	60.4	60.6	51.4	38.4	13.8	-1.6	-10.3
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1979	1998 1979	1973 1996	1987 1996	1977 1979	1988 1982	1989 1992	1983 1977	1978 1993	1973 1991	1981 1985	1997 1983	1988 1979
	MIN OBS TIME ADJUSTMENT	1.5	2.0	2.2	1.5	0.0	-0.6	-0.1	-0.4	0.7	1.2	0.8	1.0	1979
	MAX OBS TIME ADJUSTMENT	0.5	0.6	0.7	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	
007	ARTICHOKE LAK HIGHEST MEAN	24.9	31.9	39.3	53.7	66.6	75.3	77.4	75.9	65.6	53.7	40.2	25.2	77.4
	MEDIAN	10.5	15.3	29.2	45.1	58.7	67.3	71.6	70.0	59.8	47.3	29.2	15.0	43.4
	LOWEST MEAN HIGHEST MEAN YEAR	-4.4 1990	1.2 1987	20.7	36.2 1987	53.0 1977	61.7 1988	63.5 1988	64.1 1983	54.7 1998	43.2 1973	19.9 1999	-0.3 1997	-4.4 1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1997	1982	1992	1992	1993	1987	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	-0.8	-0.7	-0.7	-0.7	-0.6	-0.5	-0.4	-0.5	-0.6	-0.8	-0.6	-0.9	
	MAX OBS TIME ADJUSTMENT	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3	-0.5	
008	AUSTIN 3 S HIGHEST MEAN MEDIAN	26.9	30.7 17.3	39.6 30.9	52.8 44.6	65.5 56.9	73.6 66.5	74.2	72.8 67.1	64.7 58.3	52.6 46.5	39.7 29.9	23.9 17.8	74.2 43.2
	LOWEST MEAN	-3.3	6.4	21.9	37.3	51.7	62.0	63.7	62.6	53.7	42.3	22.8	0.4	-3.3
	HIGHEST MEAN YEAR	1990	1987	2000	1977	1977	1988	1986	1995	1998	1973	1999	1997	1986
	LOWEST MEAN YEAR	1979	1979	1975	1983	1983	1982	1971	1992	1993	1972	1985	1983	1979
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
009	MAX OBS TIME ADJUSTMENT BABBITT 2 SE HIGHEST MEAN	18.3	0.0	34.6	0.0	0.0	0.0	0.0 72.6	71.1	0.0	0.0 48.5	0.0	0.0	72.6
000	MEDIAN	5.9	12.8	26.9	39.9	55.1	62.4	66.4	64.8	55.2	43.7	26.2	11.7	39.3
	LOWEST MEAN	-3.5	3.7	18.4	34.3	47.7	56.8	59.9	58.2	48.6	37.2	18.0	-0.2	-3.5
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
	LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1982	1989 -1.5	1996 -1.2	1975 -0.9	1997 -1.0	1985 -0.6	1992	1977 -0.9	1974 -1.1	1976 -1.3	1985 -1.3	1983 -1.6	1982
	MAX OBS TIME ADJUSTMENT	-2.1	-1.5	-0.9	-0.9	-1.0	-0.6	-0.7	-0.9	-1.1	-1.3	-1.3	-2.0	
010	BAUDETTE HIGHEST MEAN	16.4	28.7	34.7	50.3	64.2	69.4	72.6	72.5	61.0	50.0	36.1	22.4	72.6
	MEDIAN	4.3	10.4	26.2	40.8	56.2	63.6	68.3	65.9	55.5	44.6	25.3	9.5	39.0
	LOWEST MEAN	-8.0	-0.1	14.8	31.5	47.3	57.7	61.3	59.9	51.4	38.9	16.4	-1.7	-8.0
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1979	1998 1979	2000 1996	1987 1996	1977 1979	1995 1982	1983 1992	1983 1977	1998 1993	1973 1976	1999 1985	1997 1983	1983 1979
	MIN OBS TIME ADJUSTMENT	-2.0	-1.6	-1.4	-1.0	-1.1	-0.8	-0.8	-1.0	-1.3	-1.6	-1.5	-1.8	19/9
	MAX OBS TIME ADJUSTMENT	-2.9	-2.8	-2.6	-2.6	-3.2	-2.1	-2.1	-2.3	-2.9	-3.0		-2.8	
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	NORN Jun	MALS S' JUL	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
012	BEMIDJI	HIGHEST MEAN	18.5	28.9	35.8	49.6	65.1	68.5	72.7	71.8	61.0	50.4	36.9	24.3	72.7
		MEDIAN LOWEST MEAN	5.9	11.4	26.7 15.9	40.4 34.4	55.4 47.6	63.5 57.6	68.0 59.4	66.1 60.2	55.2 50.2	44.3 38.6	26.7 17.3	11.1	39.7
	HIG	HEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1975	1983	1998	1973	1999	1997	1975
	LC	DWEST MEAN YEAR	1982	1989	1996	1996	1979	1982	1992	1977	1993	1976	1985	1983	1982
		TIME ADJUSTMENT	-1.6	-1.3	-1.2	-0.9	-1.0	-0.6	-0.7	-0.9	-1.1	-1.3	-1.2	-1.4	
013	MAX OBS T BENSON	TIME ADJUSTMENT HIGHEST MEAN	24.7	-0.9 31.2	-0.9 40.3	-1.1 53.8	-1.3 66.6	-0.5 75.2	-0.8 76.0	-0.7 76.2	-0.9 66.1	-1.1 53.4	-0.8 40.9	-1.3 25.8	76.2
013	BENSON	MEDIAN	10.4	16.0	30.2	45.4	59.3	67.4	71.9	70.2	60.3	47.5	29.9	15.8	43.8
		LOWEST MEAN	-2.6	4.4	20.7	37.5	52.8	62.2	64.4	65.1	55.2	42.9	21.0	-0.1	-2.6
		SHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
		OWEST MEAN YEAR	1982	1979 -1.1	1975 -1.0	1975 -0.9	1979 -0.9	1982 -0.6	1992 -0.5	1992 -0.8	1993 -1.0	1976	1985 -1.0	1983 -1.3	1982
		TIME ADJUSTMENT	-0.7	-0.5	-0.7	-0.7	-0.5	-0.5	-0.5	-0.5	-0.8	-0.8	-0.6	-0.9	
014	BIG FALLS	HIGHEST MEAN	19.5	27.4	36.4	50.0	64.0	69.4	71.7	71.1	59.6	50.0	36.2	22.3	71.7
		MEDIAN	4.8	12.5	26.5	40.8	55.8	62.6	66.8	64.9	54.7	43.6	25.9	10.6	39.2
	111.0	LOWEST MEAN SHEST MEAN YEAR	-6.8 1990	1.4 1998	17.3 1973	34.4 1987	48.0 1977	57.1 1995	60.5 1975	58.7 1983	49.5 1998	38.4	15.8 1981	-0.9 1997	-6.8 1975
		OWEST MEAN YEAR	1990	1989	1973	1996	1977	1982	1975	1903	1993	1973	1985	1983	1975
		TIME ADJUSTMENT	-1.9	-1.6	-1.3	-0.9	-1.1	-0.7	-0.7	-1.0	-1.3	-1.5	-1.4	-1.8	
		TIME ADJUSTMENT	-2.8	-2.4	-1.6	-1.9	-2.8	-1.5	-1.8	-1.8	-2.4	-2.5	-1.9	-2.7	
016	BRAINERD	HIGHEST MEAN	19.0	28.3	35.3	48.3	63.5	69.6	73.1	71.6	61.6	49.7	36.9	23.1	73.1
		MEDIAN LOWEST MEAN	5.8 -7.7	11.6 0.4	26.8 15.2	41.5	55.8 49.7	64.0 58.7	68.4 61.6	66.3 59.0	55.4 50.0	43.5	27.5 20.5	13.0 -1.0	39.9 -7.7
	HIG	SHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LC	OWEST MEAN YEAR	1982	1989	1975	1975	1974	1982	1992	1977	1974	1976	1985	1983	1982
		TIME ADJUSTMENT	1.4	2.0	1.3	0.1	0.0	-0.5	-0.1	-0.4	0.7	1.3	0.9	1.0	
018	MAX OBS T BRIMSON 1 E	TIME ADJUSTMENT HIGHEST MEAN	0.3	0.6	0.6	0.6	0.5 57.1	0.3	0.1	0.0	0.0	0.0	-0.1 33.8	0.2	67.2
010	DICIPIDON I E	MEDIAN	4.0	8.5	23.3	36.4	50.3	58.6	62.9	61.2	52.3	40.5	24.8	9.8	36.2
		LOWEST MEAN	-7.0	-0.6	15.4	29.4	43.1	52.7	58.0	56.0	47.1	35.3	15.8	-1.4	-7.0
		HEST MEAN YEAR	1998	1998	2000	1987	1977	1995	1988	1983	1978	1973	1999	1997	1988
		OWEST MEAN YEAR	1977	1989 1.0	1996 0.0	1975 -0.6	1979 -0.7	1982 -0.7	1992	1977 -0.8	1993 -0.5	1976	1995 0.2	1983	1977
		TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.3	
019	BROWNS VALLEY	HIGHEST MEAN	25.5	30.6	37.7	53.6	66.5	76.0	78.4	77.0	65.4	52.4	38.9	26.4	78.4
		MEDIAN	10.5	15.7	28.0	44.4	58.0	66.8	71.9	70.3	59.9	46.8	29.6	14.7	43.4
	штс	LOWEST MEAN SHEST MEAN YEAR	-4.2 1990	0.9 1987	18.6 1973	35.1 1987	51.3 1977	61.7 1988	64.0 1988	64.7 1983	54.0 1978	42.0 1973	18.6 1999	0.1 1997	-4.2 1988
		OWEST MEAN YEAR	1982	1979	1975	1975	1977	1982	1992	1977	1993	1976	1996	1983	1982
		TIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7	-0.5	-0.5	-0.9	-0.6	0.5	0.2	1.2	
		TIME ADJUSTMENT	0.3	0.6	0.6	0.6	0.4	0.3	0.1	0.0	-0.1	0.0	0.0	0.3	
020	BRUNO 7 ENE	HIGHEST MEAN MEDIAN	17.5	28.5 11.3	34.5 25.9	47.7	60.1 54.3	64.7 60.3	70.3	68.2 63.6	60.2 53.9	48.9	36.7 26.7	23.0	70.3
		LOWEST MEAN	-5.8	1.4	17.7	33.3	45.9	55.4	60.1	58.5	48.9	37.7	19.7	-2.0	-5.8
		HEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1988	1983	1998	1973	1999	1997	1988
		OWEST MEAN YEAR	1982		1996		1997		1992	1977	1993	1988	1995	1983	1982
		TIME ADJUSTMENT	1.4	1.1	0.0	-0.6	-0.7	-0.7	-0.5	-0.8	-0.5	-0.7	0.2	1.1	
021	BUFFALO	TIME ADJUSTMENT HIGHEST MEAN	0.3	0.6	0.5 38.3	0.4	0.4	0.2 74.2	76.5	0.0 75.0	0.0 64.7	-0.1 53.5	0.0	0.3	76.5
021	2011120	MEDIAN	10.0	15.0	30.2	44.1	58.6	66.6	71.2	69.0	58.5	47.1	30.8	16.8	43.3
		LOWEST MEAN	-2.4	5.6	20.2	35.4	51.0	62.3	64.1	64.4	53.6	41.9	23.5	1.7	-2.4
		HEST MEAN YEAR	1990	1998	2000	1987	1988	1988	1988	1983	1978	1973	1999	1997	1988
		OWEST MEAN YEAR	1977	1979 2.0	1975 1.3	1975 1.4	1997 0.0	1982 -0.5	1992 -0.1	1992 -0.3	1993 0.8	1976	1996 0.9	1983	1977
		TIME ADJUSTMENT	0.3	0.6	0.6	0.6	0.5	0.3	0.1	0.0	0.0	0.0	-0.1	0.2	
022	CALEDONIA	HIGHEST MEAN	25.7	31.3	39.6	52.0	63.6	71.6	75.2	74.7	65.1	54.5	41.0	26.7	75.2
		MEDIAN	13.8	18.0	32.1	45.2	57.0	66.3	70.6	68.3	59.5	47.6	31.7	19.7	44.1
	штс	LOWEST MEAN SHEST MEAN YEAR	-0.8 1990	6.7 1998	22.4 1973	38.0 1977	48.3 1977	61.3 1988	64.6 1988	63.8 1995	53.7 1998	1971	25.1 1999	5.6 1998	-0.8 1988
		OWEST MEAN YEAR	1979	1979	1975	1977	1977	1982	1992	1993	1993	1988	1999	1983	1979
		TIME ADJUSTMENT	1.2	1.8	1.1	0.0	0.0	-0.5	-0.1	-0.3	0.6	0.4	1.0	0.8	
		TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.0	
023	CAMBRIDGE STA	HIGHEST MEAN	23.5	30.5	37.9	51.7	64.1	72.2	76.3	73.7	62.8	51.3	36.8	24.1	76.3
		MEDIAN LOWEST MEAN	10.2	14.7 6.4	30.2 19.7	44.2 36.1	57.2 50.7	64.7 60.6	69.3	67.6 61.4	57.4 51.0	45.6 39.4	30.0 21.5	16.7 1.7	41.9
	HIG	SHEST MEAN YEAR	1990	1987	1973	1987	1988	1988	1987	1983	1978	1973	1987	1987	1987
	LC	OWEST MEAN YEAR	1977	1989	1975	1975	1997	1985	1992	1977	1993	1976	1991	1983	1977
		TIME ADJUSTMENT	-0.4	-0.2	-0.1	0.0	-0.1	0.1	-0.1	0.0	-0.2	0.0	-0.2	-0.4	
I	MAX OBS T	TIME ADJUSTMENT	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.2	

# United States Climate Normals 1971-2000 60 77 10 77 10 77 10 77

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

									TATISTI					
No.	Station Name Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
024	CAMPBELL HIGHEST MEAN	20.9	28.5	37.6	52.0	67.8	73.6	75.3	74.1	64.8	53.6	38.7	23.1	75.3
021	MEDIAN	7.2	12.0	26.7	44.0	57.6	66.3	70.7	69.2	58.9	44.9	27.7	12.5	41.8
	LOWEST MEAN	-6.7	-0.3	17.8	35.4	51.4	59.9	63.3	63.9	53.3	41.1	17.1	-1.8	-6.7
	HIGHEST MEAN YEAR	1990	1987	1973	1987	1977	1988	1974	1976	1998	1973	1999	1997	1974
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1992	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.8	-0.6	-0.5	-0.9	-0.6	0.5	0.2	1.1	1702
	MAX OBS TIME ADJUSTMENT	0.3	0.6	0.6	0.6	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.3	
0.25	CANBY HIGHEST MEAN	26.5	33.2	41.0	53.3	67.6	76.0	77.6	77.0	67.9	56.5	42.6	28.1	77.6
023	MEDIAN	13.8	20.1	31.2	45.4	59.2	68.1	73.0	71.1	61.0	48.8	32.8	18.6	45.4
	LOWEST MEAN	0.9	6.6	23.2	38.8	53.7	62.5	64.9	65.9	56.2	44.5	21.4	3.1	0.9
	HIGHEST MEAN YEAR	1990	1987	2000	1977	1977	1988	1983	1983	1978	1973	1999	1979	1983
	LOWEST MEAN YEAR	1982	1979	1984	1975	1997	1982	1992	1992	1993	1987	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7	-0.6	-0.5	-0.8	-0.6	0.5	0.2	1.2	1902
	MAX OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.0	0.4	0.3	0.1	0.0	0.0	0.0	0.2	0.3	
027		16.4	28.0	33.6	47.4	63.8	69.4	71.3	69.8	61.1	49.5	35.2	23.7	71.3
02/		3.1	9.2	25.2	39.2	53.8	62.3	67.2	65.0	55.2	42.6	26.6	9.6	38.5
	MEDIAN LOWEST MEAN	-10.7	-0.7	15.9	32.2	46.4	56.1	60.0	59.0	49.8	37.6	16.3	-5.0	-10.7
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1974	1983	1998	1973	1999	1997	1974
														-
	LOWEST MEAN YEAR	1982	1979	1996 0.0	1975	1979	1982	1992	1977 -1.0	1993 -1.1	1976	1996	1983	1982
	MIN OBS TIME ADJUSTMENT	0.8	-0.3			-1.0	-0.7	-0.7			-0.8	-0.9		
000	MAX OBS TIME ADJUSTMENT	0.6	0.5	0.5	0.4	0.2	0.0	0.0	-0.2	-0.2	0.0	-0.2	0.3	75 (
1028	CEDAR HIGHEST MEAN	24.4	31.7	39.2	52.5	65.7	72.5	75.6	73.2	65.0	52.3	40.0	25.7	75.6
	MEDIAN	10.9	16.3	31.9	45.4	58.8	65.6	70.0	68.1	59.3	47.3	30.6	16.5	43.3
	LOWEST MEAN	-0.9	7.7	21.1	37.1	52.1	59.4	64.3	64.1	53.7	41.6	22.6	1.4	-0.9
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1977	1979	1975	1975	1979	1982	1992	1985	1993	1976	1985	1983	1977
	MIN OBS TIME ADJUSTMENT	-1.4	-1.4	-1.0	-0.9	-1.0	-0.7	-0.6	-0.9	-1.1	-1.3	-1.4	-1.5	
	MAX OBS TIME ADJUSTMENT	-1.9	-1.4	-1.2	-1.4	-2.0	-1.0	-1.2	-1.6	-2.1	-1.2	-1.3	-1.9	
029	CHASKA HIGHEST MEAN	26.8	32.8	43.0	55.3	68.1	75.6	78.6	76.6	68.5	56.4	43.0	28.4	78.6
	MEDIAN	14.1	19.6	33.5	47.8	61.5	69.6	73.9	71.5	62.7	50.6	33.8	20.7	46.2
	LOWEST MEAN	1.4	8.3	25.0	40.5	55.7	64.3	66.8	66.2	56.0	44.8	25.3	3.1	1.4
	HIGHEST MEAN YEAR	1990	1998	2000	1977	1977	1988	1974	1983	1998	1973	1999	1997	1974
	LOWEST MEAN YEAR	1977	1979	1975	1975	1979	1982	1992	1992	1993	1988	1991	1983	1977
	MIN OBS TIME ADJUSTMENT	-1.4	-1.5	-1.0	-1.0	-1.0	-0.6	-0.6	-0.8	-1.1	-1.4	-1.4	-1.6	
	MAX OBS TIME ADJUSTMENT	-2.3	-2.2	-1.8	-2.1	-2.7	-1.5	-1.5	-1.9	-2.7	-1.9	-2.0	-2.4	
030	CLOQUET HIGHEST MEAN	20.8	29.7	35.0	48.3	59.8	67.2	72.4	70.3	61.1	49.5	37.3	24.2	72.4
	MEDIAN	9.4	14.8	27.4	40.6	54.6	61.9	67.0	65.3	56.1	44.2	28.6	14.5	40.3
	LOWEST MEAN	-2.2	5.0	20.3	33.6	47.3	56.8	61.3	60.2	50.7	38.6	21.1	2.1	-2.2
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1971	1999	1997	1988
	LOWEST MEAN YEAR	1982	1989	1996	1975	1997	1985	1992	1977	1993	1976	1995	1983	1982
	MIN OBS TIME ADJUSTMENT	-1.7	-1.4	-1.0	-0.9	-1.0	-0.6	-0.5	-0.9	-1.1	-1.2	-1.3	-1.5	
	MAX OBS TIME ADJUSTMENT	-2.1	-1.5	-1.2	-1.2	-2.0	-0.9	-1.2	-1.1	-1.5	-1.0	-1.2	-2.0	
032	COLLEGEVILLE HIGHEST MEAN	24.1	31.1	39.8	54.3	66.7	74.4	77.4	76.0	66.1	55.1	41.0	26.4	77.4
	MEDIAN	11.5	16.0	31.3	45.9	59.5	67.4	71.8	70.2	60.8	49.2	30.7	16.2	44.4
	LOWEST MEAN	-1.3	6.8	22.0	37.5	52.4	62.3	65.9	65.7	54.9	44.1	22.5	2.1	-1.3
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1985	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	-1.2	-1.1	-1.0	-0.9	-0.9	-0.5	-0.5	-0.8	-1.0	-1.2	-1.0	-1.3	
	MAX OBS TIME ADJUSTMENT	-0.7	-0.5	-0.7	-0.7	-0.6	-0.3	-0.5	-0.4	-0.8	-0.8	-0.6	-0.9	
033	COOK 18 W HIGHEST MEAN	17.5	28.8	34.9	49.5	61.8	68.2	69.9	69.9	60.3	48.3	35.9	23.7	69.9
	MEDIAN	5.9	12.7	27.4	40.6	55.2	61.2	66.7	64.9	55.4	43.5	26.6	11.9	39.1
	LOWEST MEAN	-7.1	1.8	17.2	34.3	47.6	56.1	60.0	58.2	49.0	37.9	18.5	-0.2	-7.1
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1995	1983	1983	1998	1973	1981	1997	1983
	LOWEST MEAN YEAR	1979	1989	1996	1996	1979	1982	1992	1977	1974	1976	1985	1983	1979
	MIN OBS TIME ADJUSTMENT	-1.8	-1.5	-1.2	-0.9	-1.1	-0.6	-0.7	-0.9	-1.2	-1.4	-1.3	-1.6	
	MAX OBS TIME ADJUSTMENT	-2.2	-1.5	-0.9	-1.1	-2.0	-1.0	-0.8	-1.2	-1.6	-1.7	-1.2	-2.1	
034	COTTON HIGHEST MEAN	15.1	28.5	33.1	45.2	59.3	66.1	68.8	67.6	60.5	48.1	33.7	22.6	68.8
	MEDIAN	4.6	10.9	25.3	38.6	52.5	60.0	64.6	62.7	53.4	42.3	26.4	10.5	37.5
	LOWEST MEAN	-8.3	0.1	15.5	32.2	46.0	54.5	59.1	57.9	48.4	36.2	17.6	-2.7	-8.3
	HIGHEST MEAN YEAR	1998	1998	1973	1987	1977	1995	1983	1983	1994	1973	1981	1997	1983
	LOWEST MEAN YEAR	1982	1989	1996	1975	1997	1985	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.6	1.1	0.0	-0.6	-0.7	-0.7	-0.7	-0.9	-0.5	-0.8	0.1	1.1	
	MAX OBS TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.4	0.2	0.0	0.0	0.0	0.0	-0.1	0.3	
035	CROOKSTON NW HIGHEST MEAN	17.6	26.2	35.3	49.7	65.6	72.6	74.0	73.4	62.6	49.9	35.7	24.0	74.0
	MEDIAN	4.1	9.2	25.9	41.5	56.5	65.6	69.8	68.6	56.7	43.7	25.9	9.7	40.0
	LOWEST MEAN	-9.8	-2.5	14.2	33.2	48.1	58.6	61.8	62.0	52.2	39.6	13.7	-1.2	-9.8
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1974	1983	1978	1973	1999	1997	1974
	LOWEST MEAN YEAR	1982	1979	1996	1979	1979	1982	1992	1977	1984	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	1.6	2.0	1.2	0.0	-0.8	-0.7	-0.6	-0.9	-0.6	0.4	0.9	1.1	
	MAX OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.6	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
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# United States Climate Normals 1971-2000 60 F 19 F M A M J J A S O N D

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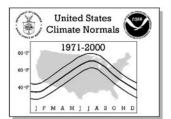
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

								NOR	IALS S	TATISTI	cs				
No. Stat	tion Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
037 DEE	P PORTAGE	HIGHEST MEAN	17.7	28.1	35.9	48.2	63.3	68.3	71.5	70.5	60.8	48.6	36.9	22.9	71.5
		MEDIAN	4.0	10.5	25.7	40.2	55.1	63.3	67.5	65.3	55.0	43.7	26.4	9.7	38.8
	итси	LOWEST MEAN EST MEAN YEAR	-8.9 1990	-3.2 1998	16.2 2000	34.0 1987	48.9 1977	57.4 1988	60.8	60.0 1983	49.7 1998	38.0	16.9 1999	-2.1 1997	-8.9 1983
		EST MEAN YEAR	1982	1989	1996	1996	1977	1982	1992	1903	1993	1976	1985	1983	1982
		ME ADJUSTMENT	1.6	1.1	1.3	-0.6	-0.7	-0.7	-0.5	-0.9	-0.5	0.4	0.1	1.1	1,02
		ME ADJUSTMENT	0.6	0.6	0.6	0.4	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
038 DEL	JANO	HIGHEST MEAN	24.5	30.7	38.8	52.4	65.7	73.0	76.3	74.5	65.2	52.5	39.0	24.2	76.3
		MEDIAN LOWEST MEAN	9.8	15.9 5.7	30.5 21.2	44.6 37.0	58.2 52.3	66.8 61.8	71.3	68.9 64.3	59.1 53.0	47.1	29.3 21.4	16.0	43.1
	HIGH	EST MEAN YEAR	1990	1987	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOW	EST MEAN YEAR	1977	1989	1975	1975	1997	1982	1992	1992	1993	1988	1985	1983	1977
		ME ADJUSTMENT	1.4	1.0	0.0	0.0	-0.7	-0.7	-0.5	-0.8	-0.5	0.5	0.2	1.1	
030 DEG	MAX OBS TI ROIT LAKES	ME ADJUSTMENT	0.3	0.6	0.5 37.5	0.5	0.4	0.2 72.0	0.1	0.0 74.6	-0.1 66.4	0.0	0.0	0.3	74.6
039 DEI	.ROII LAKES	HIGHEST MEAN MEDIAN	6.4	11.4	27.0	42.6	57.1	64.7	69.1	67.4	57.9	45.0	27.3	12.4	40.8
		LOWEST MEAN	-6.3	-0.1	15.6	34.6	49.7	58.1	61.6	62.3	52.6	40.7	18.2	-1.2	-6.3
	HIGH	EST MEAN YEAR	1990	1998	2000	1987	1977	1988	1999	1983	1998	1973	1999	1999	1983
		EST MEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1993	1988	1996	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	-1.7 -2.1	-1.4 -1.5	-1.2 -2.0	-1.0 -2.2	-1.1 -2.1	-0.7 -1.0	-0.6 -1.3	-1.0 -1.2	-1.3 -1.7	-1.5 -1.8	-1.4 -1.3	-1.6 -2.0	
040 DUL	JUTH HARBOR	HIGHEST MEAN	20.8	30.8	34.5	45.0	53.3	63.8	70.4	71.5	62.9	49.2	38.8	27.8	71.5
		MEDIAN	10.5	15.7	26.4	38.7	49.1	57.3	65.9	66.0	56.9	45.2	30.3	17.4	39.6
		LOWEST MEAN	-0.5	3.1	17.9	33.0	42.8	53.9	60.7	60.2	51.1	40.2	22.9	5.0	-0.5
	_	EST MEAN YEAR EST MEAN YEAR	1990 1994	1998 1979	2000 1996	1987 1975	1988 1996	1987 1972	1988 1992	1983 1977	1998 1974	1973 1976	1999 1995	1997 1983	1983 1994
		ME ADJUSTMENT	1.4	1.9	1.2	0.0	0.0	-0.5	-0.4	-0.3	0.6	0.4	0.9	1.0	1,7,1
	MAX OBS TI	ME ADJUSTMENT	0.5	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.1	-0.1	0.2	
041 DUL	LUTH INTL A	HIGHEST MEAN	18.5	29.0	33.4	45.7	57.9	64.7	69.7	69.2	59.3	49.5	36.2	23.2	69.7
		MEDIAN LOWEST MEAN	8.2	14.0	25.6 18.6	39.3	52.1 45.8	60.1 54.1	65.7 59.0	63.9 59.1	54.6 49.1	43.8	28.6	13.3	39.0
	HIGH	EST MEAN YEAR	1990	1998	2000	1987	1977	1995	1975	1983	1998	1973	1999	1979	1975
		EST MEAN YEAR	1982	1989	1989	1975	1997	1982	1992	1977	1974	1988	1995	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
042 ELB	MAX OBS II BOW LAKE	HIGHEST MEAN	20.3	27.8	36.1	51.2	64.0	73.2	74.1	71.8	64.1	49.6	39.3	23.7	74.1
		MEDIAN	6.3	11.6	26.6	42.7	56.6	64.5	69.5	68.0	57.0	44.5	26.9	12.4	40.7
		LOWEST MEAN	-6.9	1.3	16.7	34.2	49.9	59.5	62.1	63.1	52.9	40.8	17.9	-3.6	-6.9
		EST MEAN YEAR EST MEAN YEAR	1990 1982	1987 1989	2000 1975	1987 1975	1977 1979	1988 1982	1975 1992	1983 1977	1998 1993	1973 1988	1999 1985	1997 1983	1975 1982
		ME ADJUSTMENT	1.5	1.1	1.4	0.0	-0.8	-0.6	-0.5	-0.9	-0.5	0.5	0.2	1.1	1502
	MAX OBS TI	ME ADJUSTMENT	0.3	0.6	0.6	0.6	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.3	
045 EVE	CLETH WASTE	HIGHEST MEAN	15.3	28.1	33.0	48.1	61.8	67.8	71.4	69.2	59.3	47.4	35.4	22.2	71.4
		MEDIAN LOWEST MEAN	5.0 -5.4	10.2	25.5 16.0	38.4	53.6 45.7	61.6 56.2	65.7 58.7	64.1 58.3	53.5 48.2	41.9 36.5	25.6 17.1	11.0	37.9 -5.4
	HIGH	EST MEAN YEAR	1990	1998	2000	1987	1977	1995	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR			1996		1997		1992	1977				1983	1977
		ME ADJUSTMENT ME ADJUSTMENT	1.5	2.0	1.1	0.0	0.0	-0.5 0.3	-0.6	-0.4	0.6	0.4	0.9	1.0	
046 FAI		HIGHEST MEAN	27.8	32.4	41.1	54.3	68.0	74.9	76.5	75.5	68.3	55.2	43.3	26.5	76.5
		MEDIAN	13.7	20.7	32.4	46.5	60.3	68.9	72.8	70.4	61.2	49.4	31.2	19.2	45.3
		LOWEST MEAN	0.0	6.3	23.7	39.8	53.4	63.5	66.5	65.3	56.8	43.4	21.3	2.7	0.0
		EST MEAN YEAR EST MEAN YEAR	1990 1979	1987 1979	2000 1984	1977 1975	1977 1997	1988 1982	1983 1992	1983 1985	1998 1993	1973 1980	1999 1985	1998 1983	1983 1979
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 10,75
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
047 FAR	RIBAULT	HIGHEST MEAN	25.0	30.7	39.4	52.8	66.5	73.7	75.9	73.8	66.4	55.0	40.9	26.7	75.9
		MEDIAN LOWEST MEAN	11.9	16.7 6.6	30.8 21.4	44.8 38.0	58.4 51.2	67.8 61.1	71.4	69.2 64.5	60.0 54.2	48.1	32.3	18.9	44.0
	HIGH	EST MEAN YEAR	1990	1987	2000	1977	1977	1988	1983	1983	1978	1973	1999	1997	1983
		EST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1988	1991	1983	1977
		ME ADJUSTMENT ME ADJUSTMENT	1.3	1.0	0.0	-0.6	-0.7	-0.6 0.2	-0.5	-0.8 0.0	-0.5 -0.1	-0.7	0.2	0.9	
048 FAR	MAX OBS TI	HIGHEST MEAN	27.0	31.8	41.6	53.6	67.5	75.2	77.0	75.1	67.5	55.1	42.6	28.0	77.0
	- <del>-</del>	MEDIAN	13.1	19.2	33.1	47.3	60.9	68.5	71.9	69.8	60.9	49.5	31.9	20.0	45.3
		LOWEST MEAN	-1.7	7.6	22.5	39.1	54.7	63.6	65.7	65.4	55.2	44.0	24.8	2.3	-1.7
		EST MEAN YEAR EST MEAN YEAR	1990 1977	1998 1979	2000 1975	1987 1975	1977 1997	1988 1982	1988 1992	1983 1992	1998 1993	1973 1976	1999 1991	1997 1983	1988
		ME ADJUSTMENT	-1.3	-1.3	-0.9	-0.9	-1.0	-0.6	-0.5	-0.8	-1.0	-1.3		-1.4	1977
		ME ADJUSTMENT	-1.8	-1.4	-1.1	-1.3	-1.9	-0.9	-1.1	-1.5	-1.9	-1.2		-1.8	
			<u> </u>			1			<u> </u>			1			1



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	NORI Jun	JUL	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
049	FERGUS FALLS	HIGHEST MEAN	20.7	28.2	36.1	51.0	64.0	72.7	74.9	73.6	64.9	50.8	39.3	23.5	74.9
		MEDIAN LOWEST MEAN	7.5	11.9 -1.0	26.5 17.1	42.7	56.9 49.6	65.7 59.4	70.0	69.0 60.8	57.9 52.5	44.8	27.6 17.6	12.5 -1.7	41.1 -7.8
	HIG	HEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		WEST MEAN YEAR	1977	1979	1996	1979	1979	1985	1992	1977	1993	1976	1985	1983	1977
		IME ADJUSTMENT	1.4	2.0	2.2	1.5	0.0	-0.1	-0.1	-0.4	0.8	1.3	0.9	1.0	
050	MAX OBS T	IME ADJUSTMENT HIGHEST MEAN	0.3	0.6 27.3	0.6	0.6 46.3	0.5 59.4	0.3	0.1	0.0	0.0 57.5	0.0 47.5	-0.1 34.9	0.2	69.2
050	FLOODWOOD 3 N	MEDIAN	4.5	9.9	24.2	38.5	52.6	60.4	63.9	62.8	53.0	42.2	25.9	10.7	37.2
		LOWEST MEAN	-7.1	1.3	15.1	31.1	44.5	54.5	56.5	56.8	47.2	36.6	17.8	-2.0	-7.1
		HEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1978	1973	1999	1997	1988
		WEST MEAN YEAR	1982	1979 1.9	1996 2.1	1975	1979 1.6	1982 -0.1	1992	1977 0.7	1993 1.4	1976	1995 0.8	1983	1982
		IME ADJUSTMENT IME ADJUSTMENT	0.5	0.6	0.6	1.4	0.5	0.3	0.8	0.7	0.0	1.1	-0.1	0.9	
051	FOREST LAKE 5	HIGHEST MEAN	26.6	32.9	41.3	54.4	66.5	74.1	77.1	74.5	68.2	54.7	42.8	28.0	77.1
		MEDIAN	13.2	18.8	32.8	46.2	59.8	66.6	71.9	69.0	60.9	49.2	32.9	18.2	44.6
		LOWEST MEAN	-0.2	9.1	22.5	38.0	53.0	61.5	66.1	64.7	55.4	43.0	24.9	3.7	-0.2
		HEST MEAN YEAR WEST MEAN YEAR	1990 1977	1998 1979	2000 1975	1987 1975	1998 1979	1988 1982	1988	1995 1986	1998 1974	2000 1976	1999 1985	1997 1983	1988 1977
		IME ADJUSTMENT	-1.3	-1.3	-1.0	-0.9	-1.0	-0.6	-0.5	-0.8	-1.0	-1.3	-1.4	-1.4	10,,,
	MAX OBS T	IME ADJUSTMENT	-1.8	-1.4	-1.2	-1.3	-1.9	-1.0	-1.1	-1.5	-1.9	-1.2	-1.3	-1.8	
053	FOSSTON 1 E	HIGHEST MEAN	16.8	27.8	33.5	48.4	64.3	68.6	71.8	69.9	60.7	48.9	35.6	22.1	71.8
		MEDIAN LOWEST MEAN	2.8	8.2 -4.6	25.5 11.6	39.3	54.5 46.6	63.0 55.7	67.1 59.5	65.3 59.5	54.1 49.4	42.4 37.9	25.2 13.7	9.5 -3.5	38.1 -9.6
	HIG	HEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1989	1976	1998	1973	1999	1997	1989
		WEST MEAN YEAR	1982	1989	1996	1996	1979	1982	1992	1977	1993	1976	1985	1983	1982
		IME ADJUSTMENT	1.5	2.1	2.2	1.5	0.0	-0.6	-0.1	-0.4	0.7	1.2	0.9	1.0	
054	MAX OBS T	IME ADJUSTMENT HIGHEST MEAN	0.5	0.7	0.7	0.6	0.5	0.3	77.5	0.0 76.1	0.0	0.0	-0.1 41.0	0.2	77.5
054	GAYLORD	HIGHESI MEAN MEDIAN	10.9	16.7	39.3	44.5	59.2	68.3	72.3	69.6	59.6	47.4	30.3	17.9	43.7
		LOWEST MEAN	-2.7	4.3	20.7	35.7	52.7	63.0	65.3	65.2	54.4	41.7	22.1	-0.8	-2.7
		HEST MEAN YEAR	1990	1987	2000	1987	1998	1988	1983	1983	1998	1973	1999	1997	1983
		WEST MEAN YEAR	1977	1979	1975 1.2	1975	1997 0.0	1982 -0.1	1992	1992	1993	1976	1996 0.9	1983	1977
		IME ADJUSTMENT IME ADJUSTMENT	1.3	1.9	0.5	1.4	0.0	0.3	-0.1	-0.3 0.0	0.7	0.0	-0.1	1.0	
055	GEORGETOWN 1	HIGHEST MEAN	21.9	27.5	37.6	51.4	66.3	74.4	76.0	75.4	64.3	51.7	37.2	24.1	76.0
		MEDIAN	7.0	11.8	27.7	43.8	58.0	66.3	70.7	69.0	58.5	46.0	26.4	11.2	41.7
	шта	LOWEST MEAN	-8.1 1990	-2.3 1998	16.8 1973	35.7	51.2 1977	60.2 1988	63.7 1988	63.4 1983	54.8	41.3	15.3 1999	-1.9 1997	-8.1 1988
		HEST MEAN YEAR WEST MEAN YEAR	1982	1979	1973	1987 1979	1977	1982	1992	1903	1990 1985	1973 1976	1985	1983	1982
		IME ADJUSTMENT	-1.6	-1.4	-1.2	-1.0	-1.1	-0.7	-0.7	-0.9	-1.2	-1.4	-1.3	-1.4	1702
	MAX OBS T	IME ADJUSTMENT	-1.4	-1.5	-1.4	-1.4	-1.3	-1.0	-0.8	-0.7	-1.0	-1.2	-1.3	-1.3	
056	GLENWOOD 2 WN	HIGHEST MEAN	23.3	29.5	39.3	52.6	66.0	74.5	76.7	75.1	65.4	54.4 47.5	39.0	25.3	76.7
		MEDIAN LOWEST MEAN	10.5	16.6 4.4	29.3 21.6	45.1 37.0	58.0 52.4	66.4 60.9	70.6	69.7 64.3	59.1 53.8	47.5	29.4	16.5 -0.7	43.2 -4.5
	HIG	HEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1976	1983	1998	1973	1999	1997	1976
	LO	WEST MEAN YEAR	1982	1979	1975	1975	1997	1982	1992	1985	1993	1976	1985	1983	1982
		IME ADJUSTMENT	-1.3	-1.3	-1.1	-1.0	-1.0	-0.7	-0.6	-0.9	-1.1	-1.3	-1.2	-1.5	
058	MAX OBS T	IME ADJUSTMENT HIGHEST MEAN	-1.2 22.2	-0.9 30.6	-1.3 33.7	-1.4 43.4	-1.3 50.5	-1.0 57.8	-0.8 66.0	-0.7 67.2	-1.4 60.8	-1.2 50.1	-0.8 37.8	-1.4 28.6	67.2
036	GRAND MARAIS	MEDIAN	13.4	18.0	27.7	37.6	47.7	52.9	60.3	62.7	54.8	44.2	32.0	19.3	39.3
		LOWEST MEAN	4.9	6.7	21.7	34.5	43.3	50.1	55.4	56.9	49.8	40.5	24.9	9.0	4.9
		HEST MEAN YEAR	1990	1998	2000	1980	1972	1971	1988	1998	1998	1971	1999	1997	1998
		WEST MEAN YEAR	1982	1979 -1.6	1996 -1.3	1996	1997 -1.1	1989 -0.7	1992	1977	1993 -1.2	1993	1995 -1.4	1983 -1.6	1982
		IME ADJUSTMENT IME ADJUSTMENT	-1.8 -2.6	-1.6	-1.3 -2.1	-1.0 -2.6	-1.1	-0.7	-0.7 -1.7	-1.0 -2.1	-1.2 -2.7	-1.4 -2.3	-1.4	-2.4	
059	GRAND MEADOW	HIGHEST MEAN	24.9	29.1	38.1	50.7	64.7	72.4	74.5	73.7	64.9	53.9	39.6	25.3	74.5
		MEDIAN	12.4	16.2	29.4	44.0	56.9	66.5	70.1	68.0	59.0	46.9	31.8	19.0	43.1
	***	LOWEST MEAN	-0.9	6.9	20.2	36.5	48.1	62.1	62.7	62.3	52.8	42.1	22.6	3.3	-0.9
		HEST MEAN YEAR WEST MEAN YEAR	1990 1977	1987 1979	1973 1975	1977 1975	1977 1997	1988 1982	1983 1992	1983 1992	1978 1993	1971 1988	1999 1996	1982 1983	1983 1977
		IME ADJUSTMENT	1.1	1.8	1.9	1.4	1.3	0.0	0.7	0.7	1.3	1.1	0.9	0.7	10,,,
		IME ADJUSTMENT	0.3	0.6	0.5	0.6	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.0	
060	GRAND PORTAGE	HIGHEST MEAN	17.2	26.2	33.0	43.1	54.5	61.3	67.4	67.3	59.0	49.2	36.4	24.3	67.4
		MEDIAN LOWEST MEAN	7.3	11.8 2.7	24.1 18.0	37.5	49.5 43.5	57.4 52.2	63.1	62.5 56.9	53.7 48.6	43.1 38.5	29.3 20.8	14.3	37.6 -2.8
	нта	HEST MEAN YEAR	1990	1998	2000	1987	1977	1976	1983	1983	1998	1973	1999	1997	1983
		WEST MEAN YEAR	1994	1994	1996	1975	1997	1982	1992	1977	1993	1988	1995	1983	1994
		IME ADJUSTMENT	1.4	1.0	-0.2	-0.6	-0.9	-0.7	-0.7	-0.8	-0.5	-0.7	0.2	1.0	
I	MAX OBS T	IME ADJUSTMENT	0.5	0.5	0.4	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.3	



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

								NOP	AVI & &	TATISTI	CS				
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
061	GRAND RAPIDS	HIGHEST MEAN	18.4	30.0	35.1	48.8	62.3	68.9	71.0	69.6	60.8	48.0	36.0	23.4	71.0
001	GRAND RAPIDS	MEDIAN	6.5	12.3	27.3	40.6	55.0	62.8	67.4	65.4	55.0	43.9	26.9	11.4	39.7
		LOWEST MEAN	-5.9	1.9	17.8	33.8	47.9	57.4	60.3	59.4	49.8	37.7	18.8	-0.8	-5.9
	HIGH	EST MEAN YEAR	1990	1998	2000	1987	1977	1995	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR	1982	1989	1996	1975	1974	1985	1992	1977	1993	1976	1995	1983	1982
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
062	GULL LAKE DAM	ME ADJUSTMENT HIGHEST MEAN	16.5	0.0	0.0 35.2	0.0 48.2	0.0	0.0	73.0	0.0 72.2	0.0	50.3	0.0 36.7	0.0	73.0
002	COLL LINE DIN	MEDIAN	5.8	10.9	25.5	39.6	54.5	63.4	68.7	66.1	55.8	43.7	27.4	11.8	39.4
		LOWEST MEAN	-6.4	0.4	16.4	32.5	47.6	57.6	60.5	61.1	49.3	38.8	18.7	-2.3	-6.4
		EST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1993	1988	1985	1983	1982
		ME ADJUSTMENT	1.6	1.1	1.3	0.0	-0.7	-0.7	-0.5	-0.9	-0.5 0.0	0.5	0.1	1.1	
063	GUNFLINT LAKE	ME ADJUSTMENT HIGHEST MEAN	11.1	23.4	31.1	45.1	0.4	0.2	69.8	0.0	58.2	46.7	-0.1 33.0	18.9	69.8
003	CONFEINT DAKE	MEDIAN	1.0	8.0	22.3	37.4	52.2	59.7	65.2	62.6	52.0	40.7	25.4	9.2	36.4
		LOWEST MEAN	-10.3	-0.6	14.3	31.0	44.7	54.7	59.2	56.7	46.0	36.1	16.5	-2.5	-10.3
		EST MEAN YEAR	1990	1998	1973	1987	1977	1988	1983	1983	1998	1973	1981	1997	1983
		EST MEAN YEAR	1994	1979	1996	1995	1979	1985	1992	1977	1974	1976	1995	1983	1994
		ME ADJUSTMENT	1.5	2.0	1.2	0.0	-0.7 0.4	-0.5 0.3	-0.6	-0.4 0.0	0.6	0.4	0.9	1.0	
064	MAX OBS TII	ME ADJUSTMENT HIGHEST MEAN	13.8	23.5	33.5	49.0	65.2	73.1	72.6	72.6	60.8	48.1	35.4	23.0	73.1
""		MEDIAN	1.3	7.0	22.9	39.3	55.2	64.0	68.4	66.5	54.6	42.2	23.5	6.8	37.9
		LOWEST MEAN	-11.7	-6.8	10.8	30.4	46.2	56.8	60.8	59.2	50.3	36.8	13.2	-4.0	-11.7
	HIGH	EST MEAN YEAR	1990	1998	1973	1987	1977	1988	1983	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR	1982	1979	1996	1996	1979	1982	1992	1977	1974	1991	1985	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	1.5	2.0	2.2	1.6	0.0	-0.6 0.3	-0.2	-0.4	0.7	1.3	0.9 -0.1	1.0	
067	HASTINGS DAM	HIGHEST MEAN	24.5	31.4	39.2	52.8	65.2	73.6	76.4	75.6	66.6	54.6	41.7	27.1	76.4
	INIDITINGS DINI	MEDIAN	11.2	17.5	31.0	45.9	58.5	67.1	71.9	69.9	60.6	48.7	32.0	18.5	44.4
		LOWEST MEAN	-1.1	6.3	21.7	38.2	52.1	62.6	64.8	65.3	54.6	43.6	23.2	3.1	-1.1
		EST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1988	1991	1983	1977
		ME ADJUSTMENT ME ADJUSTMENT	1.1	1.8	2.0	1.4	1.5	0.0	0.7	0.8	1.3	1.1	0.9	0.7	
068	HAWLEY 3 NE	HIGHEST MEAN	17.7	26.3	35.7	50.5	65.5	71.3	73.9	72.9	63.2	48.6	37.6	21.2	73.9
		MEDIAN	3.9	9.8	24.7	41.5	57.0	64.9	69.6	68.5	56.7	42.8	26.0	10.1	40.1
		LOWEST MEAN	-10.4	-3.1	16.0	32.2	46.8	58.7	62.7	61.7	50.7	38.5	16.0	-2.9	-10.4
	_	EST MEAN YEAR	1990	1987	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR	1979	1979	1996	1979	1979	1982 -0.6	1992	1977	1984	1976	1985	1983	1979
		ME ADJUSTMENT ME ADJUSTMENT	1.6	1.1	1.4	0.0	-0.8 0.4	0.3	-0.5 0.1	-1.0 0.0	-0.6 0.0	0.5	0.1	1.1	
069	HIBBING CHISH	HIGHEST MEAN	15.1	28.3	33.9	47.0	60.0	66.6	69.9	68.5	58.6	47.5	34.2	22.0	69.9
		MEDIAN	6.1	10.9	25.7	38.8	53.6	60.8	65.7	63.7	53.7	42.3	25.7	10.8	38.4
		LOWEST MEAN	-5.4	0.6	16.5	33.4	46.5	55.5	60.0	58.4	47.8	36.0	17.6	-2.4	-5.4
		EST MEAN YEAR	1998	1998	1973	1987	1977	1995	1975	1983	1998	1994	1999	1997	1975
		EST MEAN YEAR ME ADJUSTMENT	1982	1989	1996	1996	1979	1982	1992	1977	1974	1976	1985	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
070	HINCKLEY	HIGHEST MEAN	21.3	29.5	37.2	50.1	63.7	69.1	73.5	70.7	62.4	50.3	37.4	25.5	73.5
1		MEDIAN	8.6	12.9	28.3	42.7	56.0	63.0	68.0	66.2	55.9	44.7	29.8	13.7	40.9
1		LOWEST MEAN	-3.7	2.8	19.1	35.6	48.7	59.2	62.3	61.9	51.0	38.8	21.5	0.8	-3.7
1		EST MEAN YEAR	1990	1998	1973	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR ME ADJUSTMENT	1977	1989 1.1	1996 0.0	1975 -0.6	1997 -0.7	1985 -0.7	1992	1977 -0.9	1993 -0.5	1976 -0.7	1985 0.2	1983 1.1	1977
		ME ADJUSTMENT	0.3	0.6	0.5	0.4	0.4	0.2	0.1	0.0	-0.5	-0.7	0.2	0.3	
072	HUTCHINSON 1	HIGHEST MEAN	23.7	30.5	40.5	52.4	66.1	73.7	76.5	75.7	64.9	52.8	40.5	25.0	76.5
		MEDIAN	9.5	16.3	30.7	45.3	58.9	67.5	72.3	69.3	60.1	47.4	30.4	16.3	43.7
		LOWEST MEAN	-3.7	5.4	20.2	37.1	52.4	63.6	64.6	64.8	54.5	42.0	22.8	-0.6	-3.7
		EST MEAN YEAR	1990	1987	2000	1977	1977	1988	1983	1983	1998	2000	1999	1997	1983
		EST MEAN YEAR ME ADJUSTMENT	1977	1979 1.1	1975 1.3	1975	1997 -0.7	1993 -0.6	1992	1992 -0.8	1993 -0.5	1988	1985 0.2	1983	1977
		ME ADJUSTMENT	0.3	0.6	0.6	0.0	0.4	0.3	0.1	0.0	0.0	0.5	-0.1	0.3	
074	INTL FALLS AP	HIGHEST MEAN	13.8	27.1	33.0	47.9	61.1	68.1	70.3	68.4	57.8	47.5	34.7	20.4	70.3
		MEDIAN	2.3	9.8	25.0	38.9	54.0	61.6	66.2	64.3	53.0	41.7	24.7	8.1	37.4
		LOWEST MEAN	-10.1	-1.2	15.2	32.0	45.9	54.4	59.3	57.3	48.8	36.4	14.1	-4.2	-10.1
		EST MEAN YEAR	1990	1998	1973	1987	1977	1995	1975	1983	1994	1994	1981	1997	1975
1		EST MEAN YEAR ME ADJUSTMENT	1982	1989	1996 0.0	1996	1979 0.0	1985 0.0	1992	1977 0.0	1984	1976 0.0	1985 0.0	1983	1982
1		ME ADJUSTMENT ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	000 111		1 3.3			1			1 3.3			1 "."			l

# United States Climate Normals 1971-2000 1971-2000

# **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

								NOPI	1VI & &.	TATISTI					
No. Sta	ation Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0// 18.	SLE 12 N	HIGHEST MEAN MEDIAN	20.3	28.2 12.0	35.2 26.2	48.4	61.7 55.2	67.5 63.1	72.8	71.7 65.6	61.6 56.8	52.1 45.4	37.5 29.6	24.0 13.7	72.8 39.9
		LOWEST MEAN	-5.5	0.7	16.9	33.6	47.4	57.5	60.6	61.6	51.4	39.1	20.2	-2.4	-5.5
	HIG	HEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		WEST MEAN YEAR	1977	1989	1996	1975	1979	1982	1992	1977	1984	1976	1985	1983	1977
	MIN OBS T	IME ADJUSTMENT	1.5	1.1	0.0	-0.6	-0.7	-0.7	-0.5	-0.9	-0.5	0.5	0.1	1.1	
		IME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.2	0.1	0.0	-0.1	0.0	-0.1	0.3	
078 IT.	ASCA UNIV O	HIGHEST MEAN	16.0	27.5	32.1	45.8	61.4	68.2	70.4	68.4	58.9	47.0	34.5	23.0	70.4
		MEDIAN LOWEST MEAN	3.4	8.5 -1.5	23.6 12.7	37.9	53.1 44.4	61.6 54.2	66.4 59.0	64.1 58.2	53.3 48.4	36.0	24.1 15.0	8.5 -4.4	37.3 -10.4
	HIG	HEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		WEST MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1977	1993	1976	1985	1983	1982
	MIN OBS T	IME ADJUSTMENT	1.5	2.0	2.2	1.4	0.0	-0.5	-0.1	-0.4	0.7	1.2	0.9	1.0	
		IME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	
079 JO	RDAN 1 S	HIGHEST MEAN	25.7	30.4	38.8	50.4	64.2	70.8	73.9	73.2	63.9	51.6	39.6	26.5	73.9
		MEDIAN LOWEST MEAN	8.9 -3.8	15.2	29.2 19.1	42.6	56.3 50.9	65.3 59.1	69.1	66.7 63.0	57.3 53.2	46.2	29.7 20.9	15.0 -1.5	41.7 -3.8
	HIG	HEST MEAN YEAR	1990	1998	2000	1977	1977	1991	1999	1995	1978	1973	1999	1997	1999
		WEST MEAN YEAR	1982	1989	1975	1975	1997	1982	1992	1992	1993	1988	1985	1983	1982
	MIN OBS T	IME ADJUSTMENT	1.3	1.9	1.2	1.4	0.0	-0.5	-0.1	-0.3	0.7	0.4	0.9	1.0	
		IME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	-0.1	0.2	
080 KA	RLSTAD	HIGHEST MEAN	14.9	23.5	32.9	49.4	65.2	72.6	73.1	72.3	60.9	48.1	33.7	20.8	73.1
		MEDIAN LOWEST MEAN	0.7	7.2 -4.8	23.6 12.8	40.2	55.4 47.8	63.2 57.5	67.9	65.7 58.9	55.2 49.6	42.9	23.8 14.1	7.2 -4.6	37.7 -13.4
	HTG	HEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		WEST MEAN YEAR	1979	1979	1996	1996	1979	1982	1992	1977	1993	1991	1996	1983	1979
	MIN OBS T	IME ADJUSTMENT	0.9	1.1	-0.1	-0.6	-1.0	-0.7	-0.7	-1.1	-1.1	-0.8	0.1	0.5	
	MAX OBS T	IME ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.0	0.0	-0.2	-0.2	0.0	-0.1	0.3	
081 KE	LLIHER	HIGHEST MEAN	16.4	26.6	34.3	50.0	64.4	68.4	70.6	69.8	59.7	49.5	35.3	20.8	70.6
		MEDIAN	3.0	9.4	24.8 13.0	39.5	54.1	62.2 56.4	66.5 59.2	63.9	53.7	42.7	25.3 15.4	8.8	37.8
	нта	LOWEST MEAN HEST MEAN YEAR	-10.5 1990	-2.0 1998	1973	31.8 1987	45.6 1977	1988	1989	57.9 1983	49.4 1998	37.4 1973	1981	-4.7 1997	-10.5 1989
		WEST MEAN YEAR	1982	1989	1996	1996	1979	1982	1992	1977	1993	1976	1985	2000	1982
		IME ADJUSTMENT	1.6	1.1	1.2	-0.6	-0.8	-0.7	-0.6	-0.9	-0.5	0.4	0.1	1.1	
		IME ADJUSTMENT	0.6	0.7	0.6	0.4	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
085 LA	KE WILSON	HIGHEST MEAN	26.8	31.3	38.8	52.3	66.0	74.2	76.3	76.4	66.5	53.2	42.2	25.0	76.4
		MEDIAN	11.2	18.6 4.9	30.6 20.7	44.6 37.4	58.8	68.1	71.6	69.9 63.9	60.0 55.1	47.5	30.3	17.3 -0.6	44.0
	нта	LOWEST MEAN HEST MEAN YEAR	-1.4 1990	1987	20.7	1987	51.9 1977	61.7 1988	1974	1983	1978	1973	1999	1997	-1.4 1983
	_	WEST MEAN YEAR	1979	1979	1984	1975	1997	1993	1992	1992	1993	1976	1985	1983	1979
	MIN OBS T	IME ADJUSTMENT	1.4	1.0	1.2	0.0	-0.6	-0.5	-0.5	-0.8	-0.5	0.5	0.2	1.1	
	MAX OBS T	IME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.1	
086 LA	MBERTON SW	HIGHEST MEAN	25.8	32.0	38.9	53.1	67.0	75.0	77.6	75.3	66.6	54.2	41.4	26.4	77.6
		MEDIAN	10.9	18.7	30.8	44.7	58.6	68.7	71.7	69.3	59.9	47.7	31.6	18.3	44.4
	нта	LOWEST MEAN HEST MEAN YEAR	-0.4 1990	3.1 1987	21.6 2000	38.1 1987	52.6 1977	63.2 1988	64.8	64.4 1983	55.2 1978	43.0 1973	21.3 1999	-0.1 1997	-0.4 1983
		WEST MEAN YEAR	1979	1979	1984	1975	1997	1982	1992	1992	1993	1976	1985	1983	1979
		IME ADJUSTMENT	1.4	1.0	1.2	0.0	-0.7	-0.5	-0.5	-0.8	-0.5	0.5	0.2	1.1	
		IME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	-0.1	0.0	0.0	0.3	
088 LE	ECH LAKE DA	HIGHEST MEAN	17.8	28.5	34.7	49.5	63.6	69.6	72.5	72.2	61.0	49.3	36.3	23.9	72.5
		MEDIAN	5.3	12.1	26.4	41.1	55.0	64.0	68.5	66.2	56.0	43.6	27.4	11.4	39.6
	шта	LOWEST MEAN HEST MEAN YEAR	-6.7 1990	1.4 1998	17.4 1973	34.7 1987	47.9 1977	59.1 1988	61.2 1975	60.5 1983	51.4 1998	38.8 1973	18.2 1999	-1.2 1997	-6.7 1975
		MEST MEAN YEAR	1982	1989	1973	1996	1977	1982	1992	1903	1993	1973	1995	1983	1975
		IME ADJUSTMENT	1.6	1.1	1.3	-0.6	-0.7	-0.7	-0.6	-0.9	-0.5	0.4	0.1	1.1	
	MAX OBS T	IME ADJUSTMENT	0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
089 LI	TCHFIELD	HIGHEST MEAN	24.2	29.2	38.4	52.5	65.2	74.5	76.5	74.1	64.9	51.6	39.8	24.5	76.5
		MEDIAN	8.8	14.5	28.5	44.4	57.8	66.8	71.3	68.9	58.8	46.9	29.3	14.4	42.2
	шта	LOWEST MEAN HEST MEAN YEAR	-5.5 1990	4.9 1987	18.5 2000	34.8 1987	51.3 1988	61.8 1988	1988	64.3 1983	53.7 1998	39.7 1973	20.8 1999	-0.6 1997	-5.5 1988
		WEST MEAN YEAR	1977	1987	1975	1987	1988	1988	1988	1983	1998	1973	1999	1997	1988
		IME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7	-0.6	-0.5	-0.8	-0.5	0.5	0.2	1.1	, ,
		IME ADJUSTMENT	0.3	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0	-0.1	0.3	
090 LI	TTLE FALLS	HIGHEST MEAN	23.0	31.1	38.8	52.9	67.2	73.4	77.6	74.4	65.8	53.0	39.4	26.1	77.6
		MEDIAN	9.9	15.8	31.1	44.7	58.9	66.8	71.8	69.4	59.7	47.9	30.6	15.9	43.5
	шта	LOWEST MEAN HEST MEAN YEAR	-1.4 1990	5.8 1998	19.1 2000	34.7 1987	51.9 1977	61.5 1988	63.8	65.2 1983	54.6 1998	41.9 1973	21.8 1999	0.8 1997	-1.4 1988
		HEST MEAN YEAR WEST MEAN YEAR	1979	1998	2000 1975	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		IME ADJUSTMENT	-1.4	-1.4	-1.1	-1.0	-1.1	-0.7	-0.6	-1.0	-1.2	-1.5	-1.3	-1.6	-7,7
		IME ADJUSTMENT	-2.0	-1.5	-2.0	-2.2	-2.1	-1.0	-1.3		-2.2	-2.0	-1.3		
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# United States Climate Normals 1971-2000 60 F 19 F M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	Station Name Element	JAN	FEB	MAR	APR	MAY	NORI Jun	MALS S' JUL	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
091	LONG PRAIRIE HIGHEST MEAN	23.0	30.0	38.6	53.1	65.7	73.5	76.1	73.6	64.9	53.2	39.5	25.6	76.1
	MEDIAN LOWEST MEAN	9.9	14.1 5.3	29.9	35.3	58.4 51.4	66.5 61.2	70.5	69.0 63.7	58.9 54.1	47.3	29.5 21.3	15.2	42.6
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1989	1975	1975	1979	1982	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT	-1.5	-1.5	-1.1	-1.0	-1.1	-0.7	-0.6	-1.0	-1.2	-1.6	-1.5	-1.7	
092	MAX OBS TIME ADJUSTMENT LUTSEN 3 NNE HIGHEST MEAN	-2.5 15.0	-2.3 25.6	-2.4 30.6	-2.7 42.7	-2.8 57.1	-1.5 62.8	-1.6 68.5	-1.9 65.7	-2.9 56.0	-2.7 46.2	-2.0 33.8	-2.6 22.3	68.5
0,2	MEDIAN	5.5	8.3	21.9	34.8	49.6	57.0	62.3	61.0	51.2	40.5	26.2	12.6	35.7
	LOWEST MEAN	-5.7	-1.7	14.0	28.1	42.6	52.0	56.4	54.9	46.2	35.5	17.1	0.8	-5.7
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1999	1983	1998	1973	1999	1997	1999
	LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1994	1989 1.9	1989 1.1	1975	1979 -0.7	1982 -0.5	1992 -0.6	1977 -0.3	1993	1976	1995 0.9	1989	1994
	MAX OBS TIME ADJUSTMENT	0.4	0.6	0.5	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.2	
093	LUVERNE HIGHEST MEAN	25.4	32.3	39.5	53.0	65.2	74.3	77.3	77.2	66.4	52.5	40.8	26.5	77.3
	MEDIAN	11.9	18.0	31.5	44.7	58.5	68.1	72.6	70.0	59.6	47.1	30.7	18.4	44.2
	LOWEST MEAN HIGHEST MEAN YEAR	-0.1 1990	5.0 1998	22.1	37.1	51.5 1977	63.1 1988	64.1 1974	64.4 1983	54.3 1978	41.8 1973	19.8 1999	0.1 1979	-0.1 1974
	LOWEST MEAN YEAR	1979	1979	1984	1995	1995	1982	1992	1992	1984	1987	1985	1983	1979
	MIN OBS TIME ADJUSTMENT	1.3	1.9	1.9	1.4	0.0	0.0	-0.1	-0.3	0.7	1.2	1.0	1.0	
	MAX OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.1	
094	MADISON SEWAG HIGHEST MEAN MEDIAN	26.9	30.2 17.5	38.2	53.3	65.2 58.5	75.7 67.4	78.0 71.7	75.1 69.5	65.8 59.4	53.1 46.9	40.6 29.5	24.6 15.5	78.0 43.3
	LOWEST MEAN	-3.0	2.7	21.4	35.9	52.2	62.2	64.1	64.4	54.6	41.3	19.8	-1.3	-3.0
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1988	1988	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1985	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7 0.4	-0.6 0.3	-0.5 0.1	-0.8 0.0	-0.5 0.0	0.5	0.2	1.1	
095	MAHNOMEN 1 W HIGHEST MEAN	17.0	27.1	33.6	48.7	64.6	69.9	71.4	71.2	61.1	48.4	35.8	20.4	71.4
	MEDIAN	2.6	7.9	23.7	40.0	54.8	63.9	67.4	66.4	55.2	42.2	23.8	9.0	38.3
	LOWEST MEAN	-9.9	-4.2	13.1	32.2	46.1	57.2	60.5	59.7	50.5	36.2	13.5	-4.5	-9.9
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998 1979	1973 1975	1987	1977 1979	1988 1982	1989 1992	1983 1977	1998 1984	1973 1976	1999 1985	1997 1983	1989 1982
	MIN OBS TIME ADJUSTMENT	1.5	2.0	2.3	1.5	0.0	-0.6	-0.1	-0.4	0.7	1.2	0.9	1.0	1902
	MAX OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.0	-0.1	0.2	
096	MANKATO HIGHEST MEAN	26.6	32.3	40.0	53.2	66.6	75.6	76.5	75.8	66.4	54.2	42.1	26.9	76.5
	MEDIAN LOWEST MEAN	12.6	19.0 5.8	32.2	45.4 38.7	58.9 51.8	68.0 62.6	72.1 65.2	69.9 64.6	60.2 55.5	48.1	31.7 22.5	19.3	44.7 -0.5
	HIGHEST MEAN YEAR	1990	1987	2000	1977	1977	1988	1983	1983	1978	1973	1999	1997	1983
	LOWEST MEAN YEAR	1979	1979	1975	1975	1997	1985	1992	1986	1993	1988	1985	1983	1979
	MIN OBS TIME ADJUSTMENT	1.3	1.9	1.2	1.3	0.0	-0.1	-0.2	-0.3	0.7	1.2	1.0	1.0	
097	MAX OBS TIME ADJUSTMENT MAPLE PLAIN HIGHEST MEAN	26.8	0.6	0.5	0.5	0.5	0.3 73.4	0.1 75.7	0.0 74.9	0.0	0.0	0.0	0.2	75.7
0,5,7	MEDIAN	12.4	16.9	32.0	46.0	59.5	67.0	71.3	69.1	60.3	48.1	32.4	19.4	44.6
	LOWEST MEAN	0.3	8.1	22.1	37.8	53.7	61.0	64.5	64.5	54.6	42.3	24.9	5.4	0.3
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1977 -1.4	1989 -1.4	1975 -0.9	1975 -0.9	1997 -1.0	1982 -0.6	1992 -0.5	1977 -0.8	1993 -1.1	1976 -1.3	-1.3	1983 -1.5	1977
	MAX OBS TIME ADJUSTMENT		-1.4		-1.3	-2.0	-1.0	-1.2	-1.5	-2.0		-1.3	-2.0	
098	MARCELL 5 NE HIGHEST MEAN	15.0	26.2	32.6	47.7	61.4	67.8	69.9	70.7	59.4	48.2	35.0	22.2	70.7
	MEDIAN	3.7	8.2	24.4	38.4	53.6	61.4	65.8	64.5	53.8	42.6	25.3	9.8	37.9
	LOWEST MEAN HIGHEST MEAN YEAR	-7.5 1990	-1.7 1998	14.0 1973	31.5 1987	46.1 1977	56.7 1995	59.2 1988	58.9 1983	49.2 1998	37.5 1973	17.2 1999	-2.4 1997	-7.5 1983
	LOWEST MEAN YEAR	1982	1989	1996	1975	1997	1982	1992	1977	1974	1976	1995	1983	1982
	MIN OBS TIME ADJUSTMENT	1.4	1.9	1.1	0.1	0.0	-0.5	-0.1	-0.3	0.6	1.1	0.9	0.9	
000	MAX OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.5	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	77 -
099	MARSHALL HIGHEST MEAN MEDIAN		33.0	40.6 31.7	54.2	67.3 60.3	75.8 69.5	77.5	77.4 71.8	69.6 61.7	56.7 50.2		28.8	77.5 46.2
	LOWEST MEAN	0.3	6.8	25.0	39.1	55.6	64.0	65.6	65.4	57.8	44.2	22.3	2.6	0.3
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1988	1988	1974	1983	1998	1973	1999	1997	1974
	LOWEST MEAN YEAR	1982	1979	1975	1975	1983	1982	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	-1.4	-1.5 -1.2	-1.1 -0.7	-1.0 -1.1	-1.1 -1.8	-0.7 -0.9	-0.7 -0.8	-1.0 -1.5	-1.4 -1.8	-1.7 -1.5	-1.7 -1.5	-1.6 -0.8	
100	MELROSE HIGHEST MEAN		30.5	39.1	53.8	65.9	74.5	77.5	74.9	65.4	53.3	38.9	27.8	77.5
	MEDIAN	10.8	16.1	30.8	45.1	58.6	66.9	71.8	69.7	59.8	47.6	30.4	16.3	43.6
	LOWEST MEAN	-2.5	5.5	20.4	36.2	52.2	62.0	64.8	64.3	54.7	42.7	19.6	0.6	-2.5
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1977	1998 1979	2000 1975	1987 1975	1977 1979	1988 1982	1988 1992	1983 1985	1998 1993	1973 1976		1997 1983	1988 1977
	LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	-1.3	-1.3	-1.1	-1.0	-1.0	-0.6	-0.6		-1.1		-1.2	-1.4	12//
	MAX OBS TIME ADJUSTMENT	-1.2	-0.9	-1.3	-1.4	-1.2	-0.5	-0.8	-0.7				-1.3	
					<u> </u>			<u>'</u>			<u> </u>		-	1



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

NORMALS STATISTICS														
No. Station Name	e Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
		ı												
101 MILACA	HIGHEST MEAN MEDIAN	20.7	30.0	38.0 28.1	52.3 42.7	63.6 56.8	70.7 64.3	73.5	70.5 66.8	63.4 57.2	50.2	37.6 29.0	24.9	73.5
	LOWEST MEAN	-6.9	2.1	19.0	34.6	48.9	58.7	63.5	62.8	51.9	40.0	21.5	-1.8	-6.9
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1985	1993	1976	1985	1983	1982
	DBS TIME ADJUSTMENT	1.5	1.1	0.0	-0.6	-0.7	-0.7	-0.5	-0.9	-0.5	0.5	0.2	1.1	
MAX O	DBS TIME ADJUSTMENT  HIGHEST MEAN	0.3	0.6	0.5	0.5 55.0	0.4	0.2 74.6	0.1 76.4	0.0 75.7	-0.1 67.0	0.0 53.1	-0.1 41.1	0.3	76.4
102 MIDAN I NW	MEDIAN	11.7	17.2	30.9	46.5	60.1	68.2	72.2	69.6	59.9	48.1	29.8	16.4	44.5
	LOWEST MEAN	-1.4	4.1	22.2	38.2	53.5	61.9	64.5	65.0	55.3	42.6	21.2	-1.6	-1.6
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1974	1976	1978	1973	1999	1997	1974
	LOWEST MEAN YEAR	1982	1979	1975	1975	1997	1982	1992	1992	1993	1988	1996	1983	1983
	DBS TIME ADJUSTMENT DBS TIME ADJUSTMENT	-1.2	-1.1 -0.5	-1.0	-0.9 -0.7	-0.9 -0.6	-0.6 -0.5	-0.5 -0.5	-0.8 -0.6	-1.0 -0.8	-1.2 -0.8	-1.0 -0.6	-1.3 -0.9	
103 MINNEAPOLI		26.3	31.9	41.1	53.5	66.9	74.4	78.1	76.8	67.3	54.1	41.8	26.9	78.1
	MEDIAN	12.5	18.6	32.5	46.7	59.8	68.2	73.3	70.5	60.9	48.7	32.5	19.5	45.3
	LOWEST MEAN	0.3	8.6	22.6	39.4	53.4	63.7	65.8	65.9	55.0	44.0	24.5	3.7	0.3
	HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1988	1983	1978	1973	1999	1997	1988
MTN O	LOWEST MEAN YEAR DBS TIME ADJUSTMENT	1977	1989	1975	1975	1997	1982	1992	1992	1993	1988	1991	1983	1977
	OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
106 MONTEVIDEO		25.2	32.1	39.3	52.9	65.1	73.0	76.0	74.9	65.7	54.4	39.0	27.3	76.0
	MEDIAN	11.2	17.3	31.6	44.9	58.6	67.4	71.5	69.7	60.0	47.3	30.5	16.6	43.8
	LOWEST MEAN	-6.0	4.8	22.5	37.7	52.9	62.7	63.7	64.0	54.5	42.8	20.9	0.8	-6.0
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1987	2000 1984	1987 1975	1977 1997	1988 1982	1975 1992	1976 1992	1978 1993	1973 1972	1999	1997	1975
MTN O	DBS TIME ADJUSTMENT	0.0	1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1996 0.0	1983	1982
	DBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
108 MOOSE LAKE	1 HIGHEST MEAN	20.1	30.1	36.3	47.5	61.3	66.5	71.6	70.0	63.2	49.8	37.7	25.0	71.6
	MEDIAN	8.3	14.2	27.7	41.4	54.7	62.0	67.5	65.5	57.0	44.7	28.7	13.8	40.4
	LOWEST MEAN	-3.3	4.2 1998	18.8	33.7	48.5	56.7	60.4	60.5	51.3	39.1	20.8	0.1	-3.3
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998	1975	1987 1975	1977 1979	1995 1985	1988 1992	1998 1977	1998 1974	1973 1976	1999 1985	1997 1983	1988 1982
MIN O	DBS TIME ADJUSTMENT	-1.7	-1.4	-1.0	-0.9	-1.0	-0.6	-0.6	-0.9	-1.2	-1.3	-1.3	-1.6	1,02
MAX O	DBS TIME ADJUSTMENT	-2.1	-1.5	-1.2	-1.3	-2.0	-1.0	-1.2	-1.2	-1.6	-1.2	-1.3	-2.0	
109 MORA	HIGHEST MEAN	19.4	29.7	36.7	50.4	63.6	70.0	72.8	70.8	62.2	51.3	37.7	25.2	72.8
	MEDIAN LOWEST MEAN	7.6	13.8	27.2 20.1	42.5 36.4	55.5 49.9	64.1 58.7	68.5 62.5	66.6 60.9	56.5 51.6	44.0 38.9	29.1 19.6	14.6	41.3 -7.1
	HIGHEST MEAN YEAR	1990	1998	2000	1977	1977	1988	1974	1973	1998	1973	1999	1997	1974
	LOWEST MEAN YEAR	1982	1989	1996	1975	1983	1982	1992	1992	1984	1988	1985	1985	1982
MIN O	DBS TIME ADJUSTMENT	1.4	2.0	1.3	0.0	0.0	-0.5	-0.1	-0.4	0.8	0.5	1.0	0.9	
	DBS TIME ADJUSTMENT	0.3	0.6	0.6	0.6	0.5	0.3	0.1	0.0	0.0	0.0	-0.1	0.2	
110 MORRIS WC	EXP HIGHEST MEAN MEDIAN	22.9	30.2	38.3	51.9 44.1	66.8 58.2	74.9 66.4	75.9 70.9	74.3 69.0	65.7 58.7	51.6 45.9	39.1	24.9 14.4	75.9 42.8
	LOWEST MEAN	-4.9	-0.1	18.3	36.2	51.4	61.4	64.2	64.6	53.2	41.2	19.7	-0.7	-4.9
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1992	1993	1976	1985	1983	1982
	DBS TIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7	-0.6	-0.5	-0.9	-0.5	0.5	0.2	1.1	
MAX O	DBS TIME ADJUSTMENT  HIGHEST MEAN	0.3	0.6	0.6	0.6 54.2	0.4	0.3	0.1 77.3	0.0 76.1	-0.1 66.7	0.0 53.1	-0.1 40.6	0.3	77.3
III NEW LONDON	MEDIAN	10.1	15.5	29.6	44.6	58.7	67.3	71.5	69.7	60.1	47.4	29.3	16.0	43.4
	LOWEST MEAN	-3.3	4.2	19.9	36.5	52.3	62.1	65.4	65.1	54.5	42.9	20.2	-1.1	-3.3
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1988	1988	1988	1983	1998	1973	1999	1997	1988
MIN O	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1985	1989	1976	1985	1983	1982
	DBS TIME ADJUSTMENT DBS TIME ADJUSTMENT	-1.3 -1.2	-1.3 -0.9	-1.1 -1.3	-1.0 -1.4	-1.0 -1.2	-0.7 -1.0	-0.6 -0.8	-0.8 -1.0	-1.1 -1.3	-1.3 -1.2	-1.2 -0.8	-1.4 -1.3	
112 NEW ULM 2		30.3	37.2	42.9	57.7	68.8	76.8	78.5	77.3	67.9	56.2	42.5	27.8	78.5
	MEDIAN	13.8	20.0	33.1	48.2	60.6	69.3	72.9	70.3	62.2	50.0	33.5	19.9	46.0
	LOWEST MEAN	1.9	7.8	24.4	40.6	54.2	62.5	63.1	62.9	55.1	45.4	22.7	1.2	1.2
	HIGHEST MEAN YEAR	1990 1977	1987 1979	1987	1987	1988 1997	1988 1993	1983 1992	1983 1992	1978	1973 1976	1999 1991	1986 1983	1983
MTN O	LOWEST MEAN YEAR DBS TIME ADJUSTMENT	-1.4	-1.4	1975 -1.0	1975 -1.0	-1.0	-0.7	-0.5	-0.8	1993 -1.1	-1.4	-1.4	-1.6	1983
	DBS TIME ADJUSTMENT	-1.9	-1.4	-1.8	-2.1	-1.9	-1.5	-1.2	-1.5	-2.1	-1.9	-1.3	-2.0	
113 OKLEE	HIGHEST MEAN	15.7	25.2	32.4	49.1	63.4	69.7	71.1	70.9	59.9	47.5	33.7	21.3	71.1
	MEDIAN	2.3	7.8	23.7	39.5	55.1	63.3	67.5	66.0	54.0	42.3	24.4	8.6	37.7
	LOWEST MEAN YEAR	-9.4	-4.3	11.8	31.4	45.9	55.4	60.0	58.9	49.9	36.9	14.6	-1.9	-9.4
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998 1989	2000 1996	1987 1996	1977 1979	1988 1982	1989 1992	1984 1977	1978 1993	1994 1976	1999 1985	1997 1983	1989 1982
MIN O	DBS TIME ADJUSTMENT	1.5	2.1	2.2	1.5	0.0	-0.5	-0.1	-0.4	0.7	1.2	0.9	1.0	1 102
	DBS TIME ADJUSTMENT	0.5	0.7	0.7	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	
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# United States Climate Normals 1971-2000 60 7 10 77 1 F M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

NORMALS STATISTICS															
No. Station	n Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
114 OLIV	IA 3 SE	HIGHEST MEAN	25.1	31.5	39.7	53.0	66.8	75.2	75.8	74.7	66.6	52.4	41.5	24.5	75.8
		MEDIAN	10.0	16.0	30.4	44.4	58.6	67.4	70.9	68.7	59.0	47.1	29.8	16.0	43.2
		LOWEST MEAN	-3.3	3.4	21.0	37.4	52.4	62.5	63.6	63.5	53.7	41.8	21.5	-0.9	-3.3
		GHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1983	1983	1978	1973	1999	1997	1983
		OWEST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1976	1985	1983	1977
		FIME ADJUSTMENT	1.5	1.1	1.3	0.0	-0.7 0.4	-0.6 0.3	-0.5 0.1	-0.8 0.0	-0.5 -0.1	0.5	0.2	1.1	
117 OTTER		TIME ADJUSTMENT HIGHEST MEAN	23.3	29.3	38.1	53.8	67.5	74.1	76.9	76.1	66.2	53.1	39.4	24.9	76.9
117 01111		MEDIAN	9.5	13.6	29.1	44.5	59.1	67.3	71.4	69.8	59.1	47.0	29.5	14.0	43.2
		LOWEST MEAN	-3.9	3.3	19.2	37.1	51.1	61.7	64.5	65.0	55.2	43.8	19.4	-0.2	-3.9
	HIC	GHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
		OWEST MEAN YEAR	1982	1989	1996	1979	1979	1982	1992	1977	1993	1976	1985	1983	1982
		TIME ADJUSTMENT	-1.6	-1.3	-1.1	-1.0	-1.0	-0.6	-0.6	-0.9	-1.1	-1.4	-1.2	-1.5	
118 OWATO		TIME ADJUSTMENT HIGHEST MEAN	-1.4 25.1	-0.9 30.3	-1.3 39.4	-1.4 53.7	-1.3 66.7	-0.5 74.1	-0.8 77.5	-0.7 76.2	-1.0 66.5	-1.3 54.1	-0.8 41.6	-1.4 26.0	77.5
110 OWATC	JININA	MEDIAN	11.5	17.4	32.5	45.8	59.0	68.0	72.2	69.9	60.6	48.5	31.4	18.4	44.4
		LOWEST MEAN	-1.6	6.7	21.2	38.0	51.5	62.8	64.9	65.2	54.9	44.2	23.8	2.1	-1.6
	HIC	GHEST MEAN YEAR	1990	1987	2000	1977	1977	1988	1983	1983	1978	1971	1999	1998	1983
	LO	OWEST MEAN YEAR	1977	1978	1975	1975	1997	1982	1992	1992	1993	1976	1985	1983	1977
		TIME ADJUSTMENT	1.3	1.0	0.0	-0.6	-0.7	-0.6	-0.5	-0.8	-0.5	-0.7	0.2	0.9	
110 DIDI		TIME ADJUSTMENT	0.3	0.6	0.5	0.4	0.4	0.2	0.1	0.0	-0.1	-0.1	0.0	0.2	70.0
119 PARK	RAPIDS 2	HIGHEST MEAN MEDIAN	17.2 5.4	28.5 12.5	35.5 26.7	52.6 41.4	65.0 56.2	70.3 63.6	72.9 68.7	72.0 66.7	62.8 56.4	50.0 43.7	36.7 25.9	22.3	72.9 39.8
		LOWEST MEAN	-7.4	-0.9	15.8	34.4	47.9	56.7	62.1	61.0	51.1	39.7	17.9	-4.0	-7.4
	HIC	GHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1974	1983	1998	1973	1999	1997	1974
	LO	OWEST MEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1984	1976	1985	1983	1982
	MIN OBS 7	TIME ADJUSTMENT	-1.7	-1.4	-1.1	-1.0	-1.1	-0.7	-0.6	-0.9	-1.2	-1.5	-1.3	-1.5	
		TIME ADJUSTMENT	-2.1	-1.5	-2.0	-2.2	-2.1	-1.0	-1.3	-1.2	-1.6	-1.8	-1.3	-2.0	
121 PINE	RIVER DA	HIGHEST MEAN	16.6	28.5	34.5	49.0	63.7	68.9	73.0	72.7	62.3	50.4	37.2	23.9	73.0
		MEDIAN LOWEST MEAN	5.8 -5.9	13.0	26.8 16.2	41.0	55.3 48.3	63.9 59.2	68.5	66.4 60.2	55.9 50.5	44.2 39.2	28.7 19.0	12.6 -0.9	40.0 -5.9
	нта	GHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
		OWEST MEAN YEAR	1982	1989	1996	1975	1997	1982	1992	1977	1993	1988	1985	1983	1982
	MIN OBS 7	TIME ADJUSTMENT	1.6	1.1	0.0	-0.6	-0.7	-0.7	-0.5	-0.9	-0.5	0.4	0.1	1.1	
		TIME ADJUSTMENT	0.6	0.6	0.5	0.5	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
122 PIPES	STONE	HIGHEST MEAN	25.2	30.2	39.1	52.6	66.6	75.3	76.4	75.6	65.6	53.4	40.4	26.2	76.4
		MEDIAN LOWEST MEAN	9.9	17.2 6.3	30.8 19.3	44.0 36.3	57.9 51.2	67.6 61.0	71.6 62.8	69.1 63.7	59.2 53.3	46.3 39.0	30.6 20.9	16.4 -1.9	43.1 -1.9
	нта	HEST MEAN YEAR	1990	1998	2000	1981	1977	1988	1974	1983	1978	1973	1999	1979	1974
		OWEST MEAN YEAR	1979	1989	1975	1975	1997	1982	1992	1992	1984	1976	1996	1983	1983
	MIN OBS 7	TIME ADJUSTMENT	1.4	1.0	1.2	0.0	-0.6	-0.5	-0.5	-0.8	-0.5	0.5	0.2	1.1	
	MAX OBS 7	TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	-0.1	0.0	0.0	0.1	
123 POKE	GAMA DAM	HIGHEST MEAN	17.6	28.3	35.1	48.7	61.8	68.8	71.4	71.6	61.5	48.2	36.6	22.2	71.6
		MEDIAN	5.1	11.1	26.6	40.6	55.2	63.0	67.4	65.6	55.3	43.7	26.7	10.5	39.2
	нта	LOWEST MEAN SHEST MEAN YEAR	-6.8 1990	0.0 1998	17.0 2000	33.5 1987	47.1 1977	57.8 1995	60.4 1983	59.5 1983	49.7 1998	36.9 1973	18.9 1999	-2.0 1997	-6.8 1983
		OWEST MEAN YEAR			1996			1982			1993			1983	
		TIME ADJUSTMENT	1.6	1.1	0.0	-0.6	-0.7	-0.7	-0.6	-0.9	-0.5	0.4	0.1	1.1	
		TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.0	0.0	0.1		0.3	
124 PREST	TON	HIGHEST MEAN	26.0	31.0	39.7	52.6	64.4	71.2	74.1	74.3	64.7	54.4	40.2	26.6	74.3
		MEDIAN	13.4	18.5	32.6	45.3	56.4	66.4	70.4	68.4	59.3	47.8	32.6	19.7	44.0
	шт/	LOWEST MEAN GHEST MEAN YEAR	-0.1 1990	7.4 1998	22.3 1973	39.3 1977	50.8 1977	59.5 1991	65.1 1999	63.7 1995	54.3 1978	42.7 1971	24.6 1999	5.2 1987	-0.1 1995
		OWEST MEAN YEAR	1977	1978	1975	1977	1977	1991	1999	1995	1978	1971	1985	1983	1977
		FIME ADJUSTMENT	1.3	1.0	0.0	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	-0.7	0.2	0.9	
		TIME ADJUSTMENT	0.3	0.6	0.5	0.4	0.4	0.2	0.1	0.0	-0.1	-0.1	0.0	0.0	
125 RED I	LAKE FALL	HIGHEST MEAN	17.0	24.4	35.0	49.6	64.2	71.4	73.3	72.7	61.3	48.6	36.0	21.0	73.3
		MEDIAN	3.0	8.5	23.8	41.1	55.5	64.5	68.4	66.7	55.2	43.3	24.4	8.7	38.5
	117/	LOWEST MEAN GHEST MEAN YEAR	-11.4 1990	-4.5 1998	13.3	32.3 1987	47.6 1977	58.3 1988	61.7 1989	59.9 1983	51.3 1998	37.2 1973	14.3 1999	-3.6 1997	-11.4 1989
		OWEST MEAN YEAR	1990	1998	1996	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		TIME ADJUSTMENT	1.5	2.0	2.2	1.5	0.0	-0.6	-0.1	-0.4	0.7	1.2	0.8	1.0	1702
		TIME ADJUSTMENT	0.5	0.6	0.7	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.2	
126 RED I	LAKE INDI	HIGHEST MEAN	15.0	27.1	32.7	46.7	62.8	68.3	70.0	69.6	60.0	49.0	35.5	21.3	70.0
		MEDIAN	2.2	7.6	23.5	37.3	52.6	60.8	66.4	64.5	53.2	42.2	25.0	8.4	37.5
	••-	LOWEST MEAN	-11.7	-2.3	13.2	31.5	43.4	55.2	59.7	57.3	48.9	l	15.1	-3.3	-11.7
		GHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		OWEST MEAN YEAR FIME ADJUSTMENT	1982 1.6	1989 1.1	1996 1.2	1975 0.0	1979 -0.7	1982 -0.7	1992 -0.6	1977 -0.9	1993 -0.5	1976 0.4	1985 0.1	1983 1.1	1982
		TIME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.2	0.1	0.0	0.0	ı	-0.1	0.3	
			<u> </u>			1			1						l

# United States Climate Normals 1971-2000 60 7 60 7 15 M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

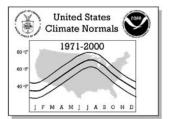
	NORMALS STATISTICS														
No. Sta	ation Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
128 RE	D WING DAM	HIGHEST MEAN	25.9	31.1	39.3	52.4	66.0	73.1	75.9	75.5	65.9	54.3	40.8	26.6	75.9
		MEDIAN	12.3	17.1	31.6	45.9	58.9	67.4	72.1	70.0	60.4	48.1	32.0	19.8	44.5
	нта	LOWEST MEAN SHEST MEAN YEAR	-1.0 1990	5.6 1998	22.8	39.2	52.6 1977	62.2 1988	65.1	65.0 1983	54.9 1998	42.9 1973	22.9 1999	4.6 1997	-1.0 1974
		WEST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1987	1991	1983	1977
		IME ADJUSTMENT	1.1	1.8	2.0	1.4	1.5	-0.1	0.7	0.8	1.3	1.1	0.9	0.7	
129 RE	MAX OBS 1 DWOOD FALLS	IME ADJUSTMENT HIGHEST MEAN	0.3	0.6	0.5	0.5 55.6	0.5	0.3 75.4	78.8	0.0 78.5	-0.1 69.3	0.0 55.8	-0.1 42.3	0.1	78.8
	.5,,005 111225	MEDIAN	12.5	18.6	32.4	46.5	60.1	69.6	73.1	71.0	61.4	49.2	32.6	18.2	45.6
		LOWEST MEAN	0.4	6.7	23.1	41.2	53.9	64.6	65.3	65.6	55.6	44.0	21.4	1.1	0.4
		HEST MEAN YEAR WEST MEAN YEAR	1990 1982	1987 1979	1973 1975	1977 1975	1977 1997	1988 1982	1983 1992	1983 1992	1978 1993	1973 1987	1999 1985	1979 1983	1983 1982
		TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1902
		TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
130 RE	MER NO 2	HIGHEST MEAN MEDIAN	17.2	28.2	35.4 26.7	48.6	62.6 55.0	67.9 62.5	70.9	69.8 64.5	60.7 54.6	49.2	36.3 27.2	22.3	70.9 38.8
		LOWEST MEAN	-7.5	0.9	16.8	34.4	47.6	56.5	60.0	59.8	48.5	36.9	19.1	-1.4	-7.5
		HEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1975	1983	1998	1973	1999	1997	1975
		WEST MEAN YEAR	1982	1989	1996	1996	1974	1982	1992	1977	1993	1976	1985	1983	1982
		CIME ADJUSTMENT	0.8	-0.3 0.5	-0.6 0.4	-0.8	-1.0 0.2	-0.7 0.0	-0.7	-1.0 -0.2	-1.1 -0.1	-0.7 0.0	-0.9 -0.2	0.5	
132 RO	CHESTER MUN	HIGHEST MEAN	25.5	29.5	39.3	51.9	63.2	71.8	73.4	73.2	64.4	52.6	40.1	25.8	73.4
		MEDIAN	12.0	17.8	31.0	44.7	57.5	65.8	69.9	68.2	58.9	46.9	32.1	18.9	43.3
	нта	LOWEST MEAN HEST MEAN YEAR	-2.7 1990	5.5 1998	20.0	38.5	51.3 1998	61.1 1991	63.7 1983	62.8 1983	53.3 1998	40.8 1973	22.7 1999	2.6 1982	-2.7 1983
		WEST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1976	1985	1983	1977
	MIN OBS T	TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
124 00		IME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	70.3	0.0	0.0	0.0	0.0	0.0	70.3
134 RO	SEAU 1 E	HIGHEST MEAN MEDIAN	11.6	21.7 4.9	34.3	47.5	64.4 53.9	62.7	66.0	69.6 65.4	59.8	47.6	34.0 22.7	6.2	70.3 36.5
		LOWEST MEAN	-14.5	-5.1	10.4	29.0	46.0	54.2	60.6	58.2	49.1	34.9	11.3	-6.6	-14.5
		HEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
		WEST MEAN YEAR	1982	1989 1.9	1996 2.1	1996	1979 0.0	1982 -0.6	1992	1977 -0.4	1975 0.7	1979	1985 0.9	1983	1982
		IME ADJUSTMENT	0.5	0.6	0.7	0.6	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.2	
135 RO	SEMOUNT AGR	HIGHEST MEAN	22.7	28.7	40.3	52.2	65.0	72.6	75.1	73.7	65.6	54.0	41.0	25.2	75.1
		MEDIAN LOWEST MEAN	9.8	16.5 6.1	31.0 21.3	45.6 37.2	58.3 52.4	67.1 62.1	70.7	68.8 64.3	60.0 53.8	48.2	30.7 22.0	17.2	43.6 -3.6
	HIG	HEST MEAN YEAR	1990	1998	2000	1977	1977	1988	1988	1983	1998	1973	1999	1997	1988
		WEST MEAN YEAR	1977	1979	1975	1975	1971	1982	1992	1992	1993	1976	1991	1983	1977
		TIME ADJUSTMENT	1.3	1.0	0.0	-0.6	-0.7	-0.6	-0.5	-0.8	-0.5	-0.7	0.2	0.9	
136 RO		IME ADJUSTMENT HIGHEST MEAN	0.3	0.6	0.5	0.4	0.4	0.2 73.7	0.1 75.4	0.0 75.0	-0.1 63.9	-0.1 51.7	0.0	0.2	75.4
130 110		MEDIAN	5.2	11.0	25.3	42.1	57.3	66.4	70.4	69.3	57.9	44.8	25.9	11.3	41.0
	****	LOWEST MEAN	-7.2	-1.3	16.0	35.3	49.8	60.2	63.0	63.7	53.3	41.4	16.2	-3.0	-7.2
		HEST MEAN YEAR WEST MEAN YEAR	1990 1982	1987 1979	1973 1996	1987 1975	1977 1979	1988 1985	1988 1992	1976 1977	1978 1993	1973 1991	1999 1985	1979 1983	1988 1982
		TIME ADJUSTMENT	1.5	2.0	2.3	1.5	0.0	-0.1	-0.1	-0.4	0.7	1.3	0.9	1.0	1702
		TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.1	0.0	0.0	0.0	-0.1	0.2	
138 ST	CLOUD MUNI	HIGHEST MEAN MEDIAN	21.5	29.6 13.8	37.6 30.1	50.5	64.0 57.2	70.8 65.2	74.4	73.2 67.2	62.9 57.5	51.5 45.6	37.4 28.6	24.0 15.3	74.4 41.6
		LOWEST MEAN	-3.6	4.1	19.1	36.5	50.9	59.3	62.9	63.0	51.3	40.2	20.6	-0.9	-3.6
	HIG	SHEST MEAN YEAR	1990	1998	1973	1977	1977	1988	1988	1983	1998	1973	1999	1997	1988
		WEST MEAN YEAR	1982	1989	1975	1975	1979	1982	1992	1992	1993	1976	1985	1983	1982
		IME ADJUSTMENT IME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
140 ST	JAMES FILT	HIGHEST MEAN	25.0	30.9	39.9	53.3	67.1	76.7	78.4	77.1	66.9	53.7	41.9	26.3	78.4
		MEDIAN	12.8	19.1	30.6	45.0	59.2	69.0	72.2	70.0	60.8	48.1	31.2	19.1	44.9
	что	LOWEST MEAN SHEST MEAN YEAR	-0.8 1989	4.6 1987	21.1	36.7 1977	52.4 1988	64.3 1988	1983	65.2 1983	55.9 1998	42.6 1973	22.6 1999	2.1 1997	-0.8 1983
		WEST MEAN YEAR	1979	1979	1975	1975	1997	1982	1992	1992	1993	1973	1985	1983	1979
	MIN OBS T	TIME ADJUSTMENT	1.3	1.9	1.9	1.4	0.0	-0.1	-0.1	-0.3	0.7	1.2	1.0	1.0	
141 00		TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	-0.1	0.1	77.0
141 ST	PAUL	HIGHEST MEAN MEDIAN	26.7 14.7	32.6 20.6	41.4 33.1	55.5 47.4	69.1 60.2	74.2 68.3	77.2	76.4 70.9	68.5 61.6	57.1 49.8	41.5 34.4	29.1 20.5	77.2 46.0
		LOWEST MEAN	3.3	11.4	24.9	40.1	54.2	62.8	65.6	65.8	54.6	45.0	24.4	5.5	3.3
		SHEST MEAN YEAR	1990	1998	1973	1977	1977	1988	1988	1983	1978	1973	1999	1979	1988
		WEST MEAN YEAR	1982	1989	1996	1975	1997	1982	1992	1992 -0.8	1993	1988	1991	1983	1982
		TIME ADJUSTMENT TIME ADJUSTMENT	-1.2	-1.2 -0.8	-0.9 -0.6	-0.9 -0.7	-0.9 -1.2	-0.6 -0.5	-0.5 -0.7		-0.9 -1.2	-1.1 -0.7	-1.2 -0.8	-1.3 -1.2	
	000 1		1	0.0	0.0		٠.۷	0.5	ı	0.7	1.4		0.0	٠. ۵	

# United States Climate Normals 1971-2000 60 F 19 F M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

						NORI	ΛΔΙ S S	TATISTI	CS				
No. Station Name Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
142 ST PETER 2 SW HIGHEST MEAN	26.0	32.2	40.2	53.8	66.1	75.8	77.2	76.9	65.2	53.5	40.5	26.4	77.2
MEDIAN	13.4	17.7	31.8	45.7	59.1	67.8	72.2	69.8	60.5	48.3	31.5	19.3	44.6
LOWEST MEAN	-2.6	7.6	20.8	37.2	51.4	62.7	64.1	64.1	54.1	42.4	23.5	1.7	-2.6
HIGHEST MEAN YEAR	1990	1987	2000	1987	1988	1988	1988	1983	1988	1973	1999	1997	1988
LOWEST MEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1992	1993	1976	1996	1983	1977
MIN OBS TIME ADJUSTMENT	1.3	1.9	1.2	1.4	0.0	-0.1 0.3	0.1	-0.3 0.0	0.7	1.2	1.0	0.9	
MAX OBS TIME ADJUSTMENT 143 SANDY LAKE DA HIGHEST MEAN	18.7	27.9	34.8	49.4	62.0	69.0	72.6	72.2	61.7	50.3	36.8	22.7	72.6
MEDIAN	6.1	11.7	25.7	40.8	55.7	63.7	67.9	66.4	56.6	44.7	28.1	11.5	39.8
LOWEST MEAN	-6.9	2.8	17.8	34.3	48.5	57.1	61.7	59.7	51.6	38.4	20.5	-0.7	-6.9
HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1995	1983	1983	1998	1973	1999	1997	1983
LOWEST MEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1993	1976	1996	1983	1982
MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	1.5	1.1	0.0	-0.6 0.4	-0.7 0.4	-0.7 0.2	-0.5 0.1	-0.9 0.0	-0.5 0.0	0.4	0.1	1.1	
144 SANTIAGO 3 E HIGHEST MEAN	24.7	31.1	39.1	53.6	66.1	73.8	77.6	75.2	64.6	53.4	39.7	26.2	77.6
MEDIAN	11.7	16.5	31.5	45.4	59.2	66.5	70.5	69.0	59.5	47.7	31.3	17.5	43.8
LOWEST MEAN	-0.8	8.6	20.6	37.7	52.6	61.7	64.3	64.2	54.0	42.7	23.3	2.9	-0.8
HIGHEST MEAN YEAR	1990	1998	2000	1987	1988	1988	1988	1983	1998	1973	1999	1997	1988
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1977	1972 -1.4	1975 -1.0	1975 -0.9	1983 -1.1	1982 -0.7	1992	1992 -0.9	1993 -1.1	1976 -1.4	1996 -1.3	1983 -1.6	1977
MAX OBS TIME ADJUSTMENT	-1.9	-1.5	-1.2	-1.3	-2.0	-1.0	-1.3	-1.2	-2.1	-2.0	-1.3	-2.0	
145 SPRINGFIELD 1 HIGHEST MEAN	26.3	31.6	39.4	52.0	67.2	74.4	76.7	74.5	66.3	53.4	41.7	26.1	76.7
MEDIAN	11.2	18.6	30.4	44.3	58.5	68.0	71.1	68.7	59.8	47.6	31.0	17.9	43.8
LOWEST MEAN	-1.9	2.8	21.6	37.0	52.7	62.5	63.2	63.5	54.4	42.5	21.1	-1.1	-1.9
HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1979	1979 1.9	1984 2.0	1975 1.4	1997 0.0	1982 -0.1	1992 -0.2	1992 -0.3	1993 0.7	1976 1.2	1985 1.0	1983 1.1	1979
MAX OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.5	0.3	0.1	0.0	0.7	0.0	-0.1	0.2	
147 STEWART HIGHEST MEAN	25.6	32.3	38.9	54.5	66.3	75.1	76.8	75.2	66.9	54.9	41.4	25.7	76.8
MEDIAN	10.8	17.1	31.4	45.1	59.9	68.4	72.6	70.2	60.5	48.0	31.8	18.1	44.5
LOWEST MEAN	-2.0	4.8	19.6	37.0	52.7	63.2	65.5	64.6	55.4	43.7	23.4	-0.4	-2.0
HIGHEST MEAN YEAR	1990	1987	1973 1975	1987	1977	1988	1974	1983	1978	1973	1999	1997 1983	1974
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT	1977	1979 -0.3	0.0	1975 -0.6	1997 -0.9	1985 -0.6	1992	1992 -0.9	1993 -1.0	1988	1985 -0.9	0.5	1977
MAX OBS TIME ADJUSTMENT	0.3	0.5	0.5	0.4	0.2	0.2	0.0	-0.1	-0.1	-0.1	-0.1	0.3	
148 STILLWATER 1 HIGHEST MEAN	27.1	33.9	42.6	55.3	68.4	74.0	79.2	76.4	68.6	56.6	44.0	28.5	79.2
MEDIAN	14.5	20.0	33.8	47.1	61.0	68.7	73.6	71.4	61.9	50.3	34.3	20.3	46.4
LOWEST MEAN	0.3	9.9	23.6	39.2	54.1	64.4	68.5	67.5	56.5	44.5	26.7	5.9	0.3
HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1977	1987 1979	2000 1975	1987 1975	1977 1974	1988 1982	1988 1992	1988 1977	1998 1993	2000 1987	1999 1985	1997 1983	1988 1977
MIN OBS TIME ADJUSTMENT	-1.1	-1.0	-0.8	-0.8	-0.9	-0.5	-0.5	-0.7	-0.8	-0.9	-1.0	-1.1	1011
MAX OBS TIME ADJUSTMENT	-0.7	-0.5	-0.3	-0.4	-0.6	-0.3	-0.4	-0.5	-0.7	-0.5	-0.6	-0.8	
149 TAMARAC WILDL HIGHEST MEAN	15.8	26.1	32.4	47.4	63.4	69.1	72.0	70.6	61.8	49.0	36.4	21.2	72.0
MEDIAN	3.2	9.0	24.0	39.9	54.8	63.2	68.1	66.1	55.4	43.3	25.4	9.2	38.6
LOWEST MEAN HIGHEST MEAN YEAR	-11.6 1990	-3.1 1998	12.8 1973	32.0 1987	46.5 1977	57.8 1988	60.6 1974	60.5 1983	50.2 1998	38.3 1973	15.2 1999	-4.6 1997	-11.6 1974
LOWEST MEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1993	1991	1985	1983	1982
MIN OBS TIME ADJUSTMENT	1.6	1.1	1.3	0.0	-0.8	-0.7	-0.5	-0.9	-0.5	0.4	0.1	1.0	
MAX OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.6	0.4	0.2	0.1	0.0	0.0		-0.1	0.3	
150 THEILMAN HIGHEST MEAN	22.6	32.1	38.5	52.2	65.1	74.2	75.4	73.8	65.0	53.9	39.7	27.2	75.4
MEDIAN LOWEST MEAN	12.9	17.2 7.1	31.5 20.9	44.5 37.2	57.9 50.3	66.8 61.8	71.4	68.5 64.5	58.9 53.7	47.8	32.2 25.2	18.9	43.6 -1.4
HIGHEST MEAN YEAR	1992	1998	20.9	1977	1977	1991	1983	1983	1978	1973	1999	1997	1983
LOWEST MEAN YEAR	1977	1989	1975	1975	1997	1982	1972	1986	1993	1988	1991	1983	1977
MIN OBS TIME ADJUSTMENT	1.2	1.8	1.2	0.0	0.0	-0.5	-0.1	-0.3	0.6	0.4	1.0	0.8	
MAX OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.2	E2 4
151 THIEF RIVER F HIGHEST MEAN MEDIAN	16.7	27.2 9.2	36.1 25.5	49.9	67.2 56.1	72.4 64.6	73.4	72.8 67.1	62.6 56.1	48.5	35.4 24.2	21.7 9.1	73.4 39.0
LOWEST MEAN	-8.0	-2.5	12.9	33.2	46.4	58.1	61.9	61.1	51.9	38.8	14.6	-1.2	-8.0
HIGHEST MEAN YEAR	1990	1998	2000	1980	1977	1988	1989	1983	1978	1973	1981	1997	1989
LOWEST MEAN YEAR	1982	1989	1974	1996	1974	1985	1992	1977	1985	1976	1996	1983	1982
MIN OBS TIME ADJUSTMENT	-1.6	-1.5	-1.3	-1.0	-1.0	-0.6	-0.7	-0.9	-1.1	-1.4	-1.3	-1.5	
MAX OBS TIME ADJUSTMENT	-1.4	-1.5	-1.0	-1.2	-1.3	-0.5	-0.8	-0.7	-1.0	-1.1	-1.3	-1.4	70.7
152 THORHULT 1 S HIGHEST MEAN MEDIAN	17.3	28.0 9.9	34.8 26.3	50.7 40.7	64.3 54.5	71.1 62.4	72.7 67.4	71.0 65.4	59.9 54.5	49.3	35.6 25.4	22.0 8.9	72.7 38.7
LOWEST MEAN	-9.0	-0.9	14.7	32.9	44.7	57.2	59.6	60.2	50.3	39.0	16.7	-1.8	-9.0
HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1983	1984	1998	1973	1981	1997	1983
LOWEST MEAN YEAR	1979	1989	1996	1996	1979	1982	1992	1977	1974	1976	1996	1983	1979
MIN OBS TIME ADJUSTMENT	-1.8	-1.5	-1.3	-1.0	-1.1	-0.7	-0.7	-0.9	-1.2	-1.5	-1.3	-1.6	
MAX OBS TIME ADJUSTMENT	-2.2	-1.5	-1.6	-2.0	-2.1	-1.0	-1.4	-1.2	-1.6	-1.7	-1.3	-2.1	



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

No.   Station Name	_														
139 TOWER 3 S		0.00				4.00						007	NOV	DE0	
MIN ORS TIME ADJUSTMENT   1.1   6.3   2.4   8.5   8.6   7.5   8.1   8.	No.	Station Name Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
LOMEST MEAN MEAR   11.7   -3.4   12.5   29.2   43.0   50.8	153	TOWER 3 S HIGHEST MEAN	12.2	25.8	30.4	43.8	58.4	63.5	67.6	65.7	54.5	45.3	32.9	20.4	67.6
MINIORS TIME ADJUSTMENT   1.5   2.0   1.99											49.6				34.6
MIN GES TIME ADJUSTMENT   1,000   1,															-
MIN ORS TIME ADMISTMENT   1.5   2.0   1.2   0.0   0.0   0.5   0.5   0.6   0.6   0.6   0.6   0.7   0.5   0.															
MAX OSS TIKE ADJUSTMENT    0.5 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.1 0.0 0.0 0.1 0.1 0.1 0.2   1.5 TACKY   HIGHSET MEAN   12.0 18.3 29.9   44.4 88.1 88.1 88.4   22.2 69.8 80.2 47.5 13.3 17.9 44.0   1.5 TACKY   HIGHSET MEAN   12.0 18.3 29.9   44.4 88.1 88.1 88.4   22.2 69.8 80.2 47.5 13.3 17.9 44.0   1.5 TACKY															1982
154   TRACY															
Medical   Medical   12.0   18.3   29.9   44.4   58.1   68.4   72.2   69.8   60.4   75.0   31.3   7.9   40.0	15/														77 1
LONEST MEAN 1976  HIGHEST MEAN YEAR  1982  1975	134					1			1			1			l
HIGHEST MEAN YEAR   1990   1987   2000   1987   1988   1983   1993   1998   1997   1998   1997   1988   1988   1988   1988   1989   1998   1997   1988   198						ı			1			1			
MIN ORS TIME ADUISTNEST   1.4   1.0   1.2   0.0   0.5									1						
MAX ONS TIME ADUSTNEYN   0.3   0.5   0.5   0.5   0.4   0.3   0.1   0.0		LOWEST MEAN YEAR	1982	1979	1975	1975	1997	1982	1992	1992	1993	1976	1985	1983	1982
155 TWO HARBONS   HICHEST MEAN   2.8   31.4   34.7   35.7   52.6   63.9   69.8   70.2   62.0   50.0   53.6   52.1   70.2   70.0   70.		MIN OBS TIME ADJUSTMENT	1.4	1.0	1.2	0.0	-0.5	-0.5	-0.5	-0.8	-0.5	0.5	0.2	1.2	
MINISTER   MARTINE   13,3   13,3   13,5   29,0   29,4   49,0   55,3   63,4   64,6   65,4   45,6   32,2   19,1   40,5		MAX OBS TIME ADJUSTMENT	0.3	0.6		0.5		0.3	0.1			0.0	0.0	0.3	
LOWEST MEAN 12A   2.7   7.4   21.6   31.2   43.4   52.8   58.2   58.2   58.2   58.2   59.2   59.3   59.3   59.2   59.3   59.2   59.3   59.2   59.3   59.2   59.3   59.2   59.3   59.3   59.2   59.3   59.3   59.2   59.3	155														
HICHIST MEAN YEAR   1990   1998   2000   1997   1998   1996   1997   1998   1															
MIN OBS THEA NUTSTHENT   1995   1997   1972   1975   1983   1996   1977   1974   1976   1995   1983   1982   1982   1982   1983   1982   1983   1982   1983   1982   1983   1982   1983   198															
MIN OBS TIME ADUUSTNENT   -1.9   -1.6   -1.1   -1.0   -1.1   -0.7   -0.7   -1.0   -1.3   -1.5   -1.5   -1.7												-			
MAX OBS TIME ADJUSTMENT   -2.7   -2.8   -2.4   2.7   -3.1   -1.9   -1.7   -2.2   -2.8   -2.5   -2.4   -2.5     156 TYLER   HIGHEST MEAN   28.4   32.4   32.4   32.6   40.6   53.5   53.6   53.5   42.2   27.1   76.1															1982
156 TYLER															
MEDIAN   1.2   19.2   30.6   45.5   58.1   67.1   71.2   69.2   60.1   48.3   31.3   18.9   44.4     HIGHEST MEAN YEAR   190   1987   2000   1987   1977   1988   1974   1983   1989   1973   1999   1979   1975   1975   1975   1987   1982   1992   1992   1992   1993   1976   1985   1983   1989   1973   1989   1973   1989   1973   1989   1974   1983   1989   1973   1989   1973   1989   1973   1989   1974   1983   1989   1973   1989   1974   1983   1989   1973   1989   1974   1983   1989   1973   1989   1974   1983   1989   1973   1989   1974   1983   1989   1973   1989   1987   1984	156														76.1
LOWEST MEAN YEAR   190   197   297	_50		1			1			1			1			
HIGHEST MEAN YEAR  LONEST MEAN YEAR  LONEST MEAN YEAR  MYN OBS TIME ADJUSTMENT  LOWEST MEAN  LOWEST MEAN  MEDIAN  LOWEST MEAN  MEDIAN  LOWEST MEAN  MEDIAN  MIN OBS TIME ADJUSTMENT  LOWEST MEAN  MEDIAN  LOWEST MEAN  MEDIAN  MIN OBS TIME ADJUSTMENT  LOWEST MEAN  MEDIAN  LOWEST MEAN  MEDIAN  MIN OBS TIME ADJUSTMENT  LOWEST MEAN  MEDIAN  MEDIAN						1			1			1			
MIN OBS TIME ADJUSTMENT		HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1974	1983	1998	1973	1999	1979	1974
MAX OBS TIME ADJUSTMENT   1.2   0.0		LOWEST MEAN YEAR	1979	1979	1975	1975	1997	1982	1992	1992	1993	1976	1985	1983	1979
158 VIRGINIA   HIGHEST MEAN   61.3   27.2   34.5   47.9   61.7   65.9   68.9   68.9   58.9   48.0   34.0   22.1   69.9		MIN OBS TIME ADJUSTMENT		-1.3	-1.0	-1.0	-0.7	-0.6	-0.5	-0.8	-1.1	-1.3	-1.2	-1.5	
MEDIAN   4.3   11.5   25.3   39.1   53.1   61.4   64.8   63.3   53.3   41.5   25.0   11.1   37.9															
LOWEST MEAN   1-7.2   2.8   16.2   33.1   45.2   54.6   58.2   57.4   48.2   35.9   17.1   -1.8   -7.2   -7.2   1.9	158														
HIGHEST MEAN YEAR   1990   1998   1973   1996   1996   1996   1996   1996   1992   1979   1993   1998   1993   1998   1999   1															
LOWEST MEAN YEAR   1982   1979   1996   1997   1996   1997   1996   1997   1998   1998   1978   1998   19															
MIN OBS TIME ADJUSTMENT															
MAX OBS TIME ADJUSTMENT															1904
160 WADENA 3 S															
MEDIAN   S.7   S	160														71.9
HIGHEST MEAN YEAR   1990   1998   2000   1975   1979   1988   1988   1988   1988   1988   1987   1970   1989   1980   1		MEDIAN	5.7			41.1	55.3	63.0	67.3	65.6	55.4	43.4	26.7		39.3
LOWEST MEAN YEAR   1982   1989   1996   1975   1979   1982   1992   1977   1993   1976   1985   1983   1982   19		LOWEST MEAN	-7.6	-0.5	15.6	33.1	47.2	57.6	60.1	60.1	50.4	37.9	17.4	-2.9	-7.6
MIN OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.1 0.0 0.0 0.0 0.0 0.0 0.1 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		HIGHEST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
MAX OBS TIME ADJUSTMENT		LOWEST MEAN YEAR				1975			1992		1993	1976	1985	1983	1982
161 WALKER AH GWA						ı			1						
MEDIAN   6.6   13.4   26.0   41.1   55.6   63.7   68.2   66.2   56.1   44.5   27.3   11.9   40.3															
LOWEST MEAN YEAR   1990   1998   1973   1997   1988   1983   1998   1997   1998   1996   1975   1998   1996   1975   1998   1996   1975   1998   1996   1975   1998   19	161														
HIGHEST MEAN YEAR LOWEST MEAN YEAR LOWES															
MIN OBS TIME ADJUSTMENT   1982   1989   1996   1975   1979   1982   1992   1977   1993   1980   1985   1983   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   1985   1986   19															
MIN OBS TIME ADJUSTMENT															
MAX OBS TIME ADJUSTMENT															1702
162 WANNASKA 1 S															
LOWEST MEAN 1990 1998 1973 1987 1977 1988 1983 1983 1998 1973 1999 1997 1983 1983 1983 1998 1973 1999 1997 1983 1983 1983 1983 1998 1973 1999 1997 1983 1983 1983 1983 1983 1983 1983 1983	162														71.0
HIGHEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR MEDIAN MEDIAN MESS TIME ADJUSTMENT LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN MAX OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR MEDIAN MAX OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR MEDIAN MAX OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR LOWEST MEA		MEDIAN				1	53.8		66.0	64.4	53.6	42.0	22.5	5.9	36.5
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT AND SETIME ADJUSTMENT AND AND SETIME ADJUSTMENT AND						30.2		54.2						-6.0	
MIN OBS TIME ADJUSTMENT						1						1			l
MAX OBS TIME ADJUSTMENT						l			1						1982
163 WARROAD						1									
MEDIAN   0.7   6.8   22.3   37.3   53.5   62.9   67.6   65.9   54.3   42.2   23.8   6.9   37.1	160								1						72.6
LOWEST MEAN YEAR 1990 1998 2000 1987 1977 1988 1989 1983 1998 1973 1999 1997 1989 1980 1980 1980 1989 1980 1989 1980 1989 1980 1980	163														
HIGHEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT 1.5 2.0 2.1 1.5 0.0 -0.6 -0.1 -0.4 0.7 1.2 0.9 1.0 MAX OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.2 0.0 0.0 0.0 0.0 0.2 1.0 MEDIAN MEDIAN 10.9 17.6 30.5 45.1 58.9 67.0 71.4 68.8 59.9 47.6 31.3 18.2 43.9 LOWEST MEAN YEAR HIGHEST MEAN YEAR 1990 1998 2000 1977 1978 1988 1983 1998 1997 1998 1997 1983 1999 1997 1983 1000 1998 2000 1977 1977 1988 1983 1998 1971 1999 1997 1983 1979 1979 1979 1975 1975 1975 1975 1975															
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT 1.5 2.0 2.1 1.5 0.0 -0.6 -0.1 -0.4 0.7 1.2 0.9 1.0 MAX OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.2 0.0 0.0 0.0 0.0 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0															
MIN OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.2 0.0 0.0 0.0 0.0 0.2 1.0 MAX OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.2 0.0 0.0 0.0 0.0 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0															
MAX OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.6 0.5 0.3 0.2 0.0 0.0 0.0 0.0 0.2 164 WASECA EXP ST HIGHEST MEAN 25.7 29.8 40.3 52.2 66.5 73.9 75.5 75.0 67.0 53.1 41.1 25.9 75.5 MEDIAN 10.9 17.6 30.5 45.1 58.9 67.0 71.4 68.8 59.9 47.6 31.3 18.2 43.9 LOWEST MEAN YEAR 1990 1998 2000 1977 1977 1988 1983 1983 1983 1998 1971 1999 1997 1983 LOWEST MEAN YEAR 1979 1979 1975 1975 1977 1988 1983 1983 1983 1983 1987 1991 1983 1979 MIN OBS TIME ADJUSTMENT 1.3 1.0 0.0 0.0 0.0 -0.7 -0.5 -0.5 -0.8 -0.5 -0.7 0.2 0.9															
164 WASECA EXP ST HIGHEST MEAN   25.7   29.8   40.3   52.2   66.5   73.9   75.5   75.0   67.0   53.1   41.1   25.9   75.5   75.0															
LOWEST MEAN   -2.4   4.7   19.5   37.1   52.1   62.2   64.8   64.4   55.2   42.5   23.0   -0.1   -2.4   19.5   19.	164	WASECA EXP ST HIGHEST MEAN	25.7	29.8	40.3		66.5	73.9	75.5	75.0	67.0	53.1	41.1	25.9	75.5
HIGHEST MEAN YEAR 1990 1998 2000 1977 1977 1988 1983 1983 1998 1971 1999 1997 1983 1976 1979 1979 1979 1975 1975 1977 1988 1992 1985 1993 1987 1991 1983 1979 1979 1979 1979 1979 1979 1979 197						ı			1			1			
LOWEST MEAN YEAR   1979   1979   1975   1975   1997   1982   1992   1985   1993   1987   1991   1983   1979   1981   1983   1979   1983   1984   1985						ı			1			1			
MIN OBS TIME ADJUSTMENT   1.3   1.0   0.0   0.0   -0.7   -0.5   -0.5   -0.8   -0.5   -0.7   0.2   0.9						ı			1						l
						1			1			1			1979
MAX OBS_TIME_ADJUSTMENT   U.S   U.6   U.5   U.5   U.4   U.3   U.1   U.0   -U.1   -U.1   U.0   U.2						ı			1			1			
		MAX OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.5	U.4	0.3	l n.T	0.0	-0.1	-0.1	0.0	0.2	

# United States Climate Normals 1971-2000 60 F 19 F M A M J J A S O N D

### **CLIMATOGRAPHY OF THE UNITED STATES NO. 81**

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

N <sub>a</sub>	Otation Name	□   + +	LANI	FED	MAD	4 DD	N4A\/			TATISTI		ОСТ	NOV	DEC	A N I N I I A I
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
165	WASKISH 4 NE HIGH	IEST MEAN	14.6	27.7	35.4	48.5	64.1	69.7	72.6	71.0	59.1	48.1	36.7	22.0	72.6
		MEDIAN	1.7	8.5	25.2	39.8	53.8	63.3	66.8	64.8	54.3	41.9	24.6	9.1	37.9
		EST MEAN	-11.0	-2.3	12.2	31.4	46.7	57.1	59.9	59.8	49.6	38.0	15.4	-3.5	-11.0
	HIGHEST M	IEAN YEAR IEAN YEAR	1990 1982	1998 1989	1973 1996	1987 1996	1977 1979	1988 2000	1983 1992	1984 1977	1978 1993	1973 1993	1981 1985	1997 1983	1983 1982
	MIN OBS TIME AD		1.6	1.1	1.2	-0.6	-0.7	-0.7	-0.6	-0.9	-0.5	0.4	0.1	1.1	1902
	MAX OBS TIME AD		0.6	0.6	0.6	0.4	0.4	0.2	0.1	0.0	0.0	0.0	-0.1	0.3	
167		EST MEAN	26.2	31.5	39.7	54.9	67.5	75.9	77.6	76.7	67.7	55.0	41.7	26.8	77.6
		MEDIAN	11.9	16.2	30.2	46.3	60.1	68.3	72.6	71.3	61.4	48.3	29.8	16.1	44.8
	LOW	EST MEAN	-3.9	3.2	21.6	37.1	53.4	62.8	65.2	66.4	56.8	45.3	20.1	1.1	-3.9
	HIGHEST M	IEAN YEAR	1990	1987	2000	1987	1977	1988	1988	1983	1978	1973	1999	1997	1988
		IEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIME AD		-1.5	-1.5	-1.2	-1.0	-1.1	-0.7	-0.6	-1.0	-1.3	-1.6	-1.5	-1.8	
	MAX OBS TIME AD		-2.5	-2.3	-2.5	-2.8	-2.8	-2.0	-1.6	-1.9	-3.1	-2.8	-2.1	-2.7	
169	WILLMAR STATE HIGH	IEST MEAN	23.5	30.5	38.6	53.1	66.0	74.3	76.3	74.6	65.6	52.9	39.9	23.9	76.3
	T OW	MEDIAN EST MEAN	9.3	15.0 2.7	29.3 18.5	44.4 35.8	58.4 52.4	67.0 59.7	71.0	68.9 63.5	58.9 53.8	46.5 41.0	29.5	15.3 -1.5	42.6 -5.0
	HIGHEST M		1990	1987	2000	1987	1988	1988	1988	1983	1998	1973	1999	1997	1988
		IEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1985	1984	1976	1985	1983	1977
	MIN OBS TIME AD		1.5	1.1	1.3	0.0	-0.7	-0.6	-0.5	-0.8	-0.5	0.5	0.2	1.1	
	MAX OBS TIME AD		0.3	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0	-0.1	0.3	
170		EST MEAN	26.9	32.9	40.0	52.1	65.7	75.0	76.0	75.4	69.1	54.8	42.2	26.4	76.0
		MEDIAN	12.6	19.8	31.2	44.8	58.2	68.1	72.0	69.4	59.8	47.6	30.9	18.5	44.2
	LOW	EST MEAN	-0.9	4.9	22.5	37.1	52.4	60.6	63.3	62.8	54.2	42.0	21.8	1.8	-0.9
	HIGHEST M		1990	1987	2000	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
		IEAN YEAR	1979	1979	1975	1975	1996	1993	1992	1992	1993	1976	1985	1983	1979
	MIN OBS TIME AD		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
171	MAX OBS TIME AD WINNEBAGO HIGH	IEST MEAN	0.0	0.0	0.0	0.0	0.0	0.0	76.6	0.0 74.6	0.0	0.0	0.0	0.0	76.6
1/1	WINNEBAGO HIGH	MEDIAN	11.9	18.8	31.1	45.0	59.0	68.2	71.9	69.6	60.2	47.8	32.7	19.0	44.4
	T.OW	MEST MEAN	-0.7	4.3	21.9	38.4	51.4	62.4	64.7	64.7	54.7	43.4	22.9	0.3	-0.7
	HIGHEST M		1990	1987	2000	1977	1977	1988	1983	1983	1978	1973	1999	1998	1983
		IEAN YEAR	1979	1979	1975	1975	1997	1982	1992	1992	1993	1987	1991	1983	1979
	MIN OBS TIME AD	JUSTMENT	1.3	1.9	1.2	1.4	0.0	0.0	-0.1	-0.3	0.7	1.2	1.0	0.9	
	MAX OBS TIME AD	JUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1	0.0	-0.1	0.0	-0.1	0.1	
172	WINNIBIGOSHIS HIGH	IEST MEAN	16.2	27.3	34.2	49.2	62.7	68.6	72.2	70.3	61.3	48.6	36.2	21.5	72.2
		MEDIAN	3.9	10.6	25.9	40.0	55.2	63.6	67.9	65.8	55.4	43.2	26.5	10.1	38.9
		EST MEAN	-6.8	-0.5	16.3	33.3	46.8	57.1	60.8	59.7	50.6	37.8	17.8	-3.3	-6.8
	HIGHEST M	IEAN YEAR IEAN YEAR	1990 1982	1998 1989	2000 1996	1987 1975	1977 1979	1995 1982	1975 1992	1984 1977	1998 1993	1973 1976	1999 1985	1997 1983	1975 1982
	MIN OBS TIME AD		1.6	1.1	-0.1	-0.6	-0.7	-0.7	-0.6	-0.9	-0.5	0.4	0.1	1.1	1902
	MAX OBS TIME AD		0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.0	0.0	0.1	-0.1	0.3	
173		EST MEAN	30.6	35.7	44.0	58.3	72.8	76.2	80.9	78.3	70.4	59.7	44.8	33.7	80.9
		MEDIAN	18.5	22.6	35.3	49.8	62.7	70.7	75.6	73.4	64.6	51.9	37.6	24.5	48.4
	LOW	EST MEAN	5.4	12.2	26.0	41.7	56.9	64.6	68.6	68.5	58.5	47.5	27.9	7.2	5.4
	HIGHEST M	IEAN YEAR	1990	1998	1973	1977	1977	1988	1983	1995	1998	1971	1999	1987	1983
		IEAN YEAR	1977	1979	1975	1975	1997	1982	1992	1986	1993	1980	1991	1985	1977
	MIN OBS TIME AD		-1.1	-1.2	-0.8	-0.8	-0.9	-0.6	-0.5	-0.8	-0.9	-1.1	-1.2	-1.2	
150	MAX OBS TIME AD		-1.1	-0.8	-0.5	-0.7	-1.1	-0.5	-0.7	-0.9	-1.1	-0.7	-0.8	-1.1	71.0
1,16	WINTON POWER HIGH	IEST MEAN	11.7	24.8 8.9	32.0 23.2	45.8 37.6	61.6 54.3	66.9	71.9	69.4 64.8	59.5 53.7	48.0 41.5	33.9 25.6	20.2	71.9 37.3
	T \(\Gamma\)	MEDIAN EST MEAN	-9.1	-1.0	23.2 15.0	37.6	46.8	61.8 56.2	67.2 59.7	58.9	48.5	36.9	25.6 17.0	-3.3	-9.1
	HIGHEST M		1990	1998	1973	1987	1977	1988	1983	1984	1998	1973	1999	-3.3 1997	1983
		IEAN YEAR	1994	1989	1996	1996	1997	1982	1992	1977	1974	1976	1985	1983	1994
	MIN OBS TIME AD		1.5	2.0	1.2	0.1	-0.7	-0.5	-0.6	-0.4	0.6	0.4	0.9	1.0	
	MAX OBS TIME AD		0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0	-0.1	0.2	
177	WORTHINGTON 2 HIGH	IEST MEAN	26.3	30.7	38.7	50.4	64.8	72.5	76.0	74.8	65.8	51.4	42.0	25.4	76.0
		MEDIAN	10.9	18.1	29.4	44.0	57.3	66.7	71.0	68.2	59.1	46.8	29.3	17.6	43.1
		EST MEAN	-3.3	1.6	19.6	36.6	51.4	61.3	64.1	63.2	54.2	40.1	20.5	-0.3	-3.3
	HIGHEST M		1990	1987	2000	1987	1977	1988	1983	1983	1998	1973	1999	1998	1983
	LOWEST M		1979	1979	1975	1975	1997	1982	1992	1977	1975	1976	1985	1983	1979
	MIN OBS TIME AD		1.3	1.9	1.9	1.4	0.0	0.0	-0.1	-0.3	0.7	1.2	1.0	1.0	
170	MAX OBS TIME AD WRIGHT 4 NW HIGH		19.9	0.6 28.5	0.5 35.5	0.5 47.9	0.4	0.3	0.1	0.0	0.0	0.0 49.3	0.0 37.0	0.1	69.8
1 1 / 8	MVTGUI # NM UICH	EST MEAN MEDIAN	7.9	13.1	27.0	47.9	59.9	60.7	65.6	64.4	55.3	49.3	28.5	13.5	39.5
	Т.∩W	MEDIAN JEST MEAN	-4.4	3.3	18.7	33.5	47.2	55.7	59.8	58.9	49.8	37.3	20.3	-0.1	-4.4
	HIGHEST M		1990	1998	2000	1987	1977	1995	1988	1983	1998	1973	1999	1997	1988
		IEAN YEAR	1982	1989	1996	1975	1979	1982	1992	1977	1993	1976	1995	1983	1982
	MIN OBS TIME AD		-1.6	-1.3	-0.9	-0.8	-1.0	-0.6	-0.5	-0.8	-1.1	-1.1	-1.2	-1.5	
	MAX OBS TIME AD	JUSTMENT	-1.4	-0.9	-0.6	-0.7	-1.2	-0.5	-0.8	-0.6	-0.9	-0.7	-0.8	-1.4	
									·						1