

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

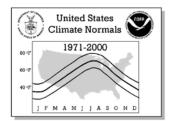




32 NORTH DAKOTA



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.

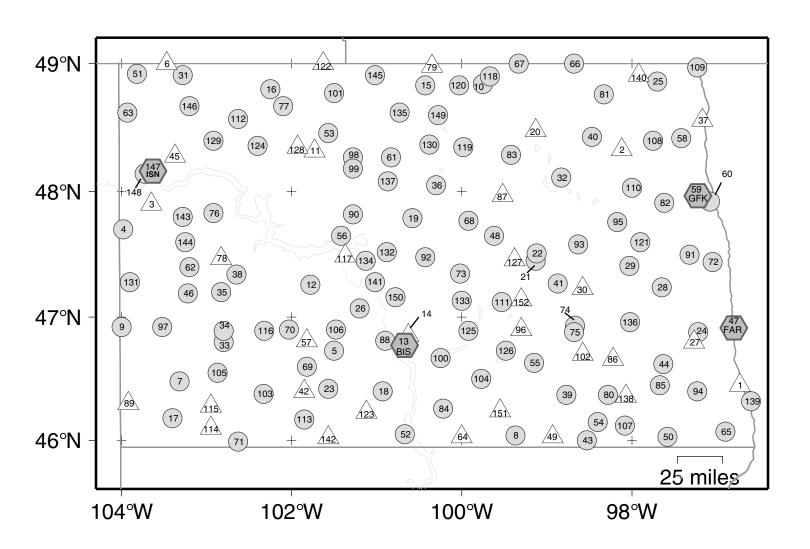
Peterson, T.C., and D.R. Easterling, 1994: Creation of homogeneous composite climatological reference series. Intl. J. Clim., 14, 671-679.

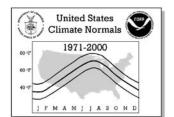
Peterson, T.C., R. Vose, R. Schmoyer, and V. Razuvaev, 1998: Global Historical Climatology Network (GHCN) quality control of monthly temperature data. Intl. J. Clim., 18, 1169-1179. Thom, H.C.S., 1966: Normal degree days above any base by the universal truncation coefficient, Month. Wea. Rev., 94, 461-465.

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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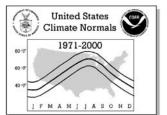




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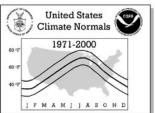
No.	COOP ID	WRAN ID	Flements	Station Name		l a	ntitude	· Lo	ngitude	Flev	Flag 1	Flag 2	
1	320005	VVB/ ((1 1 B	P	ABERCROMBIE	Ouii				44 W	935	i lug i	1 lug Z	
2	320022			ADAMS 7 SSW					07 W			+	
3	320096		P	ALEXANDER 4 NNW					39 W	2140			
4 5	320101		XNP XNP	ALEXANDER 18 SW ALMONT					59 W				
6	320127 320189		P	AMBROSE 3 N					30 W 28 W	2027		+	
7	320209		XNP	AMIDON					19 W	2910		+	
8	320382		XNP	ASHLEY					23 W	2001		+	
9 10	320590		XNP XNP	BEACH BELCOURT KEYA RADIO						2789 1960			
11	320626 320729		P	BERTHOLD						2080		+	
12	320766		XNP	BEULAH 1 W						1785		+	
13	320819	24011	XNP	BISMARCK MUNICIPAL AP	BIS						*	+	
14 15	320827 320941		P XNP	BISMARCK 7 NE BOTTINEAU					38 W 26 W	1810		+	
16	320961		XNP	BOWBELLS						1958		+	
17	320995		XNP	BOWMAN					24 W			+	
18	321052		XNP	BREIEN						1720		+	
19 20	321225 321288		XNP P	BUTTE 5 SE CANDO 2 E			48 r 29 l		35 W 09 W	1490		+	
21	321360		XNP	CARRINGTON						1586		+	
22	321362		XNP	CARRINGTON 4 N					07 W	1560		+	
23 24	321370 321408		XNP XNP	CARSON CASSELTON AGRONOMY FRM					34 W 14 W	2310 935		+	
25	321406		XNP	CAVALIER 7 NW					14 W	890		+	
26	321456		XNP	CENTER 4 SE					12 W	1990		+	
27	321477		P	CHAFFEE 5 NE					16 W	965		+	
28 29	321686 321766		XNP XNP	COLGATE COOPERSTOWN			15 N		39 W 02 W	1180		+	
30	321700		P	COURTENAY 1 NW			14 N		35 W	1515		+	
31	321871		XNP	CROSBY		48	54 l		18 W	1952		+	
32	322158	14912	XNP	DEVILS LAKE KDLR						1464		+	
33 34	322183 322188	24012	XNP XNP	DICKINSON AP DICKINSON EXP STN	DIK				48 W 49 W	2585		+	
35	322193		XNP	DICKINSON RANCH HQ					50 W			'	
36	322304		XNP	DRAKE 9 NE						1530		+	
37 38	322312		P XNP	DRAYTON					11 W	800 2232			
38 39	322365 322482		XNP	DUNN CENTER 2 SW EDGELEY 3 WNW					39 W 46 W	1558		+	
40	322525		XNP	EDMORE 1 NW			26 1		28 W	1535		+	
41	322536		XNP	EDMUNDS ARROWWOOD REF					52 W				
42 43	322588 322605		P XNP	ELLENDALE					51 W 32 W	2400		+	
44	322695		XNP	ENDERLIN 2 W						1150		'	
45	322735		P	EPPING					22 W	2220			
46	322809	1 401 4	XNP	FAIRFIELD					13 W	2750	±.	+	
47 48	322859 322949	14914	XNP XNP	FARGO HECTOR AP FESSENDEN	r'AR				49 W 37 W	900 1620	*	+	
49	323064		P	FORBES 10 NW					57 W			+	
50	323117		XNP	FORMAN 5 SSE					36 W	1250		+	
51 52	323196		XNP	FORTUNA 1 W					49 W			_	
52 53	323207 323217		XNP XNP	FORT YATES 4 SW FOXHOLM 7 N					40 W 34 W			+	
54	323287		XNP	FULLERTON 1 ESE					24 W			+	
55	323309		XNP	GACKLE					09 W			+	
56 57	323376 323496		XNP P	GARRISON 1 NNW GLEN ULLIN	N60				25 W 50 W	1935 2090		+	
5 <i>1</i> 58	323496		XNP	GRAFTON					25 W	827		+	
59	323616	14916	XNP	GRAND FORKS INTL AP	GFK	47	57 I	1 97	11 W	839	*	+	
60	323621		XNP	GRAND FORKS UNIV NWS					06 W	830		+	
61 62	323686 323705		XNP XNP	GRANVILLE GRASSY BUTTE 2 ENE					51 W 12 W	2670			
63	323736		XNP	GRENORA						2129			
64	323826		P	HAGUE		46	02 1	100	00 W			+	
65 66	323908		XNP	HANKINSON					54 W				
66 67	323936 323963		XNP XNP	HANNAH HANSBORO 4 NNE					41 W 21 W	1575		+	
68	324013		XNP	HARVEY					55 W			•	
69	324091		XNP	HEART BUTTE DAM					49 W				
70	324102		XNP	HEBRON		46	54 1	1 102	03 W	2158			



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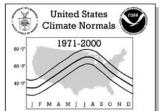
No.	COOP ID	WBAN ID	Elements	STATION INVEN		Lati	itude	Longitude	Elev	Flag 1	Flag 2	
71	324178		XNP	HETTINGER		46 (00 N	102 39 W	2680		+	
72	324203		XNP	HILLSBORO 3 N		47 2	26 N	97 04 W	910		+	
73	324343		XNP	HURDSFIELD 8 SW		47 2	21 N	100 01 W	1940			
74	324413	14919	XNP	JAMESTOWN MUNICIPAL AP	JMS	46 !	56 N	98 40 W	1494		+	
75	324418		XNP	JAMESTOWN ST HOSPITAL				98 41 W			+	
76	324571		XNP	KEENE 3 S		47 !		102 55 W			+	
77	324646		XNP	KEENE 3 S KENMARE 1 WSW KILLDEER 8 NW LAKE METIGOSHE ST PK		48		102 06 W			+	
78	324726		P	KILLDEER 8 NW		47 2		102 50 W				
79	324879		P	LAKE METIGOSHE ST PK		48		100 21 W				
80	324937		XNP	I.A MOTIRE		46		98 17 W			+	
81	324958		XNP	LANGDON EXP FARM				98 21 W			+	
82	325013		XNP	LARIMORE				97 38 W				
83	325078		XNP	LEEDS				99 26 W			+	
84	325210		XNP	LINTON				100 14 W			·	
85	325220							97 41 W				
86	325230							98 14 W			+	
87	325434		P	LITCHVILLE 2 NW MADDOCK				99 31 W				
88	325479		XNP	MANDAN EXPERIMENT STN				100 55 W			+	
				MADMADELL							+	
89	325575		P	MARMARTH				103 56 W 101 18 W			,	
90	325638		XNP	MAX							+	
91	325660		XNP	MAYVILLE				97 19 W				
92	325710		XNP	MC CLUSKY				100 26 W			+	
93	325730		XNP	MC HENRY 3 W				98 39 W			+	
94	325754		XNP	MC LEOD 3 E				97 14 W			+	
95	325764		XNP	MC VILLE		10		98 11 W				
96	325798		P	MEDINA		46 !		99 18 W			+	
97	325813	04013	XNP	MEDINA MEDORA MINOT AP MINOT EXPERIMENT STN		46		103 31 W			+	
98		24013	XNP	MINOT BYDED IMPLE CONT		48		101 17 W			+	
99	325993		XNP	MINOT EXPERIMENT STN		48		101 18 W			+	
100	326015		XNP	MOFFIT 3 SE		46		100 15 W			+	
101	326025		XNP	MOHALL				101 31 W				
102	326105		P	MONTPELIER				98 35 W			+	
103	326155		XNP	MOTT				102 20 W			+	
104	326255		XNP	NAPOLEON				99 46 W			+	
105	326315		XNP					102 52 W			+	
106	326365		XNP	NEW SALEM 5 NW				101 29 W			+	
107	326620		XNP	OAKES 2 S				98 05 W				
108	326857		XNP	PARK RIVER				97 45 W	970			
109		14924	XNP	PEMBINA		48 !		97 14 W	790		+	
110	327027		XNP	PETERSBURG 2 N PETTIBONE		48 (98 00 W			+	
111	327047		XNP					99 32 W			+	
112	327281		XNP	POWERS LAKE 1 N				102 39 W			+	
113	327311		XNP	PRETTY ROCK				101 51 W			+	
114	327450		P	REEDER				102 57 W			+	
115	327452		P	REEDER 13 N							+	
116	327530		XNP	RICHARDTON ABBEY				102 19 W			+	
117	327585		P	RIVERDALE				101 23 W				
118	327664		XNP	ROLLA 3 NW		48 !	54 N	99 40 W	1950		+	
119	327704		XNP	RUGBY		48 2	21 N	100 00 W	1550		+	
120	327824		XNP	SAN HAVEN				100 02 W				
121	327986		XNP	SHARON					1525		+	
122	328047		P	SHERWOOD 3 N		49 (00 N	101 38 W	1647			
123	328065		P	SHIELDS		46	14 N	101 07 W	1806		+	
124	328276		XNP	STANLEY 3 NNW		48 2	21 N	102 25 W	2280			
125	328366		XNP	STEELE 3 N		46 !	54 N	99 56 W	1885			
126	328415		XNP	STREETER 7 NW		46	44 N	99 29 W	1900			
127	328608		P	SYKESTON		47 2	28 N	99 24 W	1634		+	
128	328627		P	TAGUS		48 2	21 N	101 56 W	2170		+	
129	328737		XNP	TIOGA 1 E				102 55 W	2245		+	
130	328792		XNP	TOWNER 2 NE				100 23 W				
131	328812		XNP	TROTTERS 3 SSE				103 54 W	2420		+	
132	328840		XNP	TURTLE LAKE				100 54 W			+	
133	328850		XNP	TUTTLE					1879			
134	328872		XNP	UNDERWOOD				101 09 W			+	
135	328913		XNP	UPHAM 3 N				100 44 W			+	
136	328937		XNP	VALLEY CITY 3 NNW				98 01 W			+	
137	328990		XNP	VELVA 3 NE				100 53 W	1535			
138	329035		P	VERONA VERONA				98 05 W	1370			
138	329035		XNP	WAHPETON 3 N				98 05 W 96 37 W	956		+	
140	329100		XNP P	WALHALLA 1 SW				96 37 W 97 55 W	940		Г	
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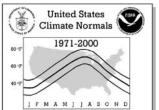
J F M	MAMJJAS	OND								
NI-	0000 ID	WDAN ID	-1	STATION IN	IVENTORY	1 -4141 -	l an aite ala	- 1	FI 4	FI- :: 0
No. 141 142 143	329195 329219 329233	WBANID	XNP P	Station Name WASHBURN WATAUGA S DAKOTA 8 N WATFORD CITY	Call	47 17 N 46 01 N	Longitude 101 02 W 101 34 W 103 17 W	1735 2070	Flag 1	+ + +
144 145 146 147	329246 329333 329400 329425	94014	XNP XNP XNP	WATFORD CITY 14 S WESTHOPE WILDROSE 3 NW WILLISTON SLOULIN AP	TSN	47 36 N 48 55 N 48 40 N	103 16 W 101 01 W 103 13 W 103 38 W	1945 1502 2260	*	+ + + + +
148 149 150	329430 329445 329455	94014	XNP XNP XNP	WILLISTON EXP FARM WILLOW CITY WILTON		48 08 N 48 36 N 47 09 N	103 44 W 100 18 W 100 47 W	2105 1460 2170		+
151 152	329515 329575		P P	WISHEK WOODWORTH			99 34 W 99 18 W			+



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

NORTH DAKOTA

No. Station Name	Elemer	st IANI	EED	MAR	APR		PERATU JUN	RE NOF	RMALS (Degrees	s Fahrer OCT	,	DEC	ANNUAL
			FEB			MAY						NOV		
004 ALEXANDER 18 S		22.0	29.5	41.4	56.5	68.1	77.6	84.4	84.5	71.6	57.9	38.2	26.3	54.8
	MEAN MIN	10.6	18.8	29.8 18.1	43.4	54.3 40.4	63.8 49.9	69.9 55.3	69.1 53.6	57.1 42.6	44.2 30.5	27.7 17.2	15.2	42.0 29.1
005 ALMONT	MAX	23.1	30.5	41.8	58.3	70.9	78.4	84.5	84.0	73.4	60.1	39.2	27.0	55.9
005 ALMONI	MEAN	11.4	19.2	29.8	43.8	56.4	64.8	70.0	68.9	58.1	45.4	28.1	15.7	42.6
	MIN	-0.3	7.8	17.8	29.3	41.8	51.1	55.4	53.8	42.7	30.7	16.9	4.4	29.3
007 AMIDON	MAX	26.5	33.6	43.7	57.1	69.2	78.7	85.8	85.7	73.0	59.3	40.9	30.3	57.0
	MEAN	15.5	22.5	31.7	43.9	55.5	64.7	70.9	70.1	58.4	45.9	30.0	19.3	44.0
	MIN	4.5	11.3	19.6	30.6	41.7	50.7	56.0	54.4	43.8	32.4	19.0	8.3	31.0
008 ASHLEY	MAX	20.5	27.5	39.0	55.6	68.8	77.4	84.0	82.8	71.9	58.3	37.7	24.8	54.0
	MEAN	9.6	16.8	28.5	43.4	56.5	65.5	71.2	69.3	58.3	45.2	27.4	14.6	42.2
000 DERGH	MIN	-1.3	6.0	18.0	31.2	44.1	53.5	58.3	55.7	44.7	32.1	17.0	4.3	30.3
009 BEACH	MAX MEAN	25.0	31.7 22.0	42.5 31.5	56.6 43.5	68.4 54.9	78.0 64.1	84.7 69.8	84.6 69.0	72.8 58.1	58.1 45.1	39.5 29.4	28.9 19.1	55.9 43.5
	MIN	5.3	12.3	20.4	30.4	41.4	50.2	54.8	53.3	43.3	32.1	19.3	9.2	31.0
010 BELCOURT KEYA		13.9	21.2	32.0	49.9	64.0	72.3	77.7	77.1	65.5	52.1	32.3	18.5	48.1
OTO BELICOOKI KETA	MEAN	1.9	9.3	20.6	36.9	50.9	59.8	65.0	63.0	52.0	39.5	21.9	7.4	35.7
	MIN	-10.2	-2.7	9.1	23.8	37.8	47.2	52.2	48.9	38.4	26.2	11.5	-3.7	23.2
012 BEULAH 1 W	MAX	21.7	29.4	41.2	57.5	70.8	78.7	84.8	84.7	72.9	59.6	38.7	26.2	55.5
	MEAN	11.0	18.9	30.0	43.7	56.1	64.5	69.8	69.3	57.8	45.8	28.2	15.8	42.6
	MIN	0.2	8.4	18.8	29.8	41.3	50.3	54.8	53.8	42.6	31.9	17.6	5.4	29.6
013 BISMARCK MUNIC		21.1	28.5	40.2	55.9	69.1	77.8	84.5	83.3	71.6	58.2	38.2	25.7	54.5
	MEAN	10.2	18.1	29.7	43.3	56.0	64.7	70.4	69.0	57.7	45.2	28.0	15.2	42.3
	MIN	-0.6	7.8	19.1	30.6	42.8	51.6	56.4	54.7	43.7	32.1	17.8	4.8	30.1
015 BOTTINEAU	MAX	13.8	21.1	32.9	51.7	66.9	74.8	79.4	78.9	67.3	53.7	32.8	18.7	49.3
	MEAN	3.0	10.5	22.9	39.7	53.8	62.4	66.7	65.5	54.4	41.4	23.2	8.5	37.7
016 BOWBELLS	MIN MAX	-7.8 16.1	-0.1 23.1	12.8	27.6	40.6	49.9 75.5	54.0	52.0	41.5 67.7	29.1	13.6	-1.7 21.1	26.0 50.6
010 BOWBELLS	MEAN	6.2	13.3	24.4	40.2	53.4	62.3	66.9	65.6	54.2	42.0	24.4	11.4	38.7
	MIN	-3.8	3.5	14.4	27.7	39.7	49.0	53.4	50.9	40.6	29.2	15.0	1.7	26.8
017 BOWMAN	MAX	25.4	31.8	41.3	54.4	66.3	76.1	83.8	83.7	71.6	58.0	39.8	29.3	55.1
	MEAN	14.6	20.9	29.9	41.9	53.6	63.1	69.4	68.3	56.6	44.2	28.5	18.1	42.4
	MIN	3.7	9.9	18.4	29.3	40.9	50.1	55.0	52.9	41.6	30.4	17.2	6.9	29.7
018 BREIEN	MAX	23.5	30.6	42.5	58.8	71.2	79.7	86.0	85.7	74.7	60.7	40.2	28.0	56.8
	MEAN	11.0	18.8	30.3	44.2	56.5	65.3	70.7	69.6	58.5	45.4	28.3	15.8	42.9
	MIN	-1.6	6.9	18.1	29.5	41.8	50.8	55.4	53.5	42.2	30.1	16.3	3.6	28.9
019 BUTTE 5 SE	MAX	17.0	24.1	36.6	54.7	69.4	77.7	83.2	82.5	70.9	56.6	34.6	21.7	52.4
	MEAN	7.0	14.2	26.5	42.2	56.1	65.0	70.1	68.9	58.0	44.7	25.6	12.2	40.9
021 CARRINGTON	MIN MAX	-3.1 16.4	4.2	16.4 34.4	29.6	42.7 67.0	52.2 74.9	56.9 79.9	55.2 79.3	45.1 68.3	32.8 55.1	16.6 34.2	2.6	29.3 50.5
UZI CARREINGION	MEAN	7.0	13.9	25.3	40.7	55.0	63.8	68.6	66.8	55.9	43.5	25.5	12.1	39.8
	MIN	-2.5	4.7	16.1	29.4	42.9	52.6	57.2	54.2	43.4	31.8	16.7	3.3	29.2
022 CARRINGTON 4 N		16.7	24.2	36.3	54.8	70.6	78.1	82.7	82.1	71.5	57.2	34.9	21.8	52.6
	MEAN	6.5	13.8	26.0	41.8	56.1	64.6	68.9	67.5	57.4	44.4	25.6	12.1	40.4
	MIN	-3.7	3.3	15.6	28.8	41.6	51.1	55.1	52.8	43.3	31.6	16.2	2.3	28.2
023 CARSON	MAX		27.7		53.0	66.4		81.0	80.7			37.7		52.7
	MEAN	1	17.8	27.7	41.0	54.0	62.7	68.5	67.3	56.1	44.2	27.7		41.1
004 02000	MIN	0.6	7.8	17.3	28.9	41.6	51.0	56.0	53.9	42.7	31.4	17.6	5.4	29.5
024 CASSELTON AGRO		1	23.7		54.6	70.2	77.8	82.9	82.0	72.0	57.8	36.2		52.6
	MEAN	5.7	12.7	26.2	42.2	56.5	65.2	70.2	68.5	58.3	45.2	26.7		40.8
025 CAVALIER 7 NW	MIN MAX	-4.9 12.2	19.8	16.6 31.5	29.8	42.8	52.6 74.9	57.4 78.7	55.0 78.2	44.6 67.4	32.6 53.5	17.1 32.7	2.9	29.0 48.8
020 CAVALIEK / NW	MAX MEAN	2.5	9.9	22.5	39.8	54.4	63.1	67.1		55.0	42.4	32.7 24.1	8.9	48.8 37.9
	MIN	-7.3	0.0	13.5	28.5	41.2	51.3	55.5	52.6	42.6	31.2	15.4	-0.1	27.0
026 CENTER 4 SE	MAX		28.2	39.4	54.6	67.9	76.5	82.4	82.1	71.0	58.2	38.7	26.7	54.0
	MEAN	10.5	17.0		41.1	54.0	63.0	68.3	67.0	56.1	44.3	27.1	15.4	41.0
	MIN	-1.4		16.0	27.5	40.1	49.5	54.1		41.2	30.3	15.5	4.0	27.9
028 COLGATE	MAX	13.9	21.4	33.7		69.2	77.1	82.3	81.8	70.4	55.8		19.1	51.0
	MEAN	1	10.8	24.1	41.3	55.9	64.4	69.1	68.0	57.0	43.3	24.1	9.7	39.3
	MIN	-6.8	0.1	14.4	29.1	42.5	51.7	55.9	54.1	43.5	30.8	14.4	0.2	27.5
029 COOPERSTOWN	MAX	1	22.1	34.6	53.0	68.3	76.4	81.2	80.4		55.6	33.3		50.7
	MEAN	5.0	12.8	25.5	41.5	55.6	64.3	68.9	67.2	56.7	43.9	24.9	10.8	39.8
0.21 ancanii	MIN	-4.3		16.3	30.0	42.8	52.2	56.5		43.9	32.2	16.5	2.1	28.8
031 CROSBY	MAX	17.8	25.7	38.2	56.1		77.9	83.0	82.3	69.9	56.2		22.2	52.8
	MEAN MIN	1	16.2	28.1	43.3		64.6 51 3	69.2		56.5	44.2	25.8		41.1
032 DEVILS LAKE KD	MIN LR MAX	14 7	6.6	18.0	30.5	42.4 67.5	51.3 75.3	55.3 80.1	53.2 79.1	43.1	32.1 53.9	16.7 33.1	3.5	29.3 49.9
OP DEVILO DAKE KD	MEAN		13.8			56.2	64.8	l	67.7		44.3	25.8		49.9
	MIN		5.2			44.9		l	56.2			18.4		30.8



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

NORTH DAKOTA

J F M A M J J A S O N D						TEME	PERATU	RE NO	RMALS	(Degree	s Fahrei	nheit)		
No. Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
033 DICKINSON AP	MAX MEAN	23.7 14.2	30.7	40.9	54.9 42.8	67.1 54.5	76.0 63.4	83.2	82.8 68.7	70.6 57.2	57.6 45.3	38.7 29.0	27.9 18.2	54.5 42.9
	MIN	4.6	11.6	19.9	30.6	41.9	50.8	55.6	54.5	43.8	33.0	19.3	8.4	31.2
034 DICKINSON EXP STN	MAX	23.9	30.9	40.8	54.6	67.1	76.0	82.6	82.9	71.0	57.9	39.3	28.2	54.6
	MEAN	12.0	18.9	28.7	41.3	53.4	62.4	68.1	67.3	55.4	43.3	27.3	16.2	41.2
	MIN	0.0	6.9	16.5	28.0	39.7	48.8	53.5	51.6	39.8	28.7	15.2	4.1	27.7
035 DICKINSON RANCH HQ	MAX	22.0	29.0	39.5	54.4	66.9	76.1	82.7	82.7	70.4	57.5	37.9	26.1	53.8
	MEAN	11.8	19.0	29.0	42.1	54.4	63.7	69.4	68.6	57.0	44.7	27.7	16.1	42.0
036 DRAKE 9 NE	MIN MAX	1.5	8.9	18.5 34.6	29.8	41.8	51.3 75.9	56.0	54.4	43.6	31.8	17.4 33.9	6.0	30.1 50.8
030 DRAKE 9 NE	MEAN	5.0	12.5	24.5	41.0	55.4	64.1	68.6	67.0	56.3	43.0	24.4	10.6	39.4
	MIN	-5.8	2.0	14.4	29.2	43.2	52.3	56.3	53.9	43.4	30.7	14.8	0.4	27.9
038 DUNN CENTER 2 SW	MAX	23.7	30.7	41.3	56.7	69.5	77.8	84.7	85.3	72.9	58.8	39.1	27.8	55.7
	MEAN	12.8	20.2	30.3	44.0	56.2	64.6	70.2	70.1	58.4	45.9	28.8	17.1	43.2
	MIN	1.9	9.7	19.2	31.2	42.8	51.3	55.7	54.8	43.8	32.9	18.4	6.4	30.7
039 EDGELEY 3 WNW	MAX	18.5	25.1	36.8	53.5	68.2	76.4	82.8	81.8	71.1	57.7	36.5	23.6	52.7
	MEAN	8.9	15.7	27.4	42.0	55.7	64.3	69.8	68.3	57.7	45.2	27.2	14.2	41.4
0.40 ====== 4 ===	MIN	-0.7	6.2	17.9	30.5	43.2	52.1	56.8	54.8	44.3	32.6	17.8	4.8	30.0
040 EDMORE 1 NW	MAX	10.8	18.3	31.0	50.8	66.7	74.4	79.0	78.8	67.3	53.0	31.1	16.2	48.1
	MEAN MIN	0.7 -9.5	8.1 -2.1	21.6 12.2	39.3	53.7 40.6	62.2 49.9	66.5	65.2 51.6	54.5 41.7	41.3	21.9 12.7	6.9 -2.5	36.8 25.5
041 EDMUNDS ARROWWOOD REF	MAX	18.4	25.8	38.1	55.2	70.6	78.1	83.8	82.4	72.7	59.0	37.0	23.8	53.7
041 EDMONDS ARROWWOOD REF	MEAN	8.2	15.8	27.8	42.5	56.6	64.8	69.8	68.0	58.1	45.8	27.3	14.1	41.6
	MIN	-2.1	5.8	17.4	29.7	42.5	51.5	55.8	53.5	43.5	32.6	17.5	4.4	29.3
043 ELLENDALE	MAX	20.5	27.4	39.3	57.3	71.3	79.6	85.1	84.0	73.7	59.3	37.6	24.8	55.0
	MEAN	10.5	17.7	30.0	45.1	58.2	67.0	72.2	70.7	60.2	47.0	28.5	15.5	43.6
	MIN	0.5	8.0	20.6	32.9	45.0	54.3	59.3	57.3	46.6	34.6	19.4	6.1	32.1
044 ENDERLIN 2 W	MAX	18.0	25.5	37.4	55.8	71.1	79.2	84.5	83.1	72.1	58.1	36.8	23.4	53.8
	MEAN	7.9	15.2	27.7	43.5	57.4	66.1	70.9	68.8	58.2	45.3	27.3	13.7	41.8
	MIN	-2.2	4.8	17.9	31.2	43.6	52.9	57.3	54.4	44.3	32.4	17.8	4.0	29.9
046 FAIRFIELD	MAX	20.4	27.8	38.3	53.2	65.5	74.4	81.2	80.9	68.9	55.6	36.3	24.8	52.3
	MEAN	10.3	17.4	27.6	41.2	53.3	62.3	68.2	67.2	56.1	43.4	26.4	14.8	40.7
047 FARGO HECTOR AP	MIN MAX	0.1	6.9	16.8 35.3	29.1	41.1	50.2 77.4	55.2 82.2	53.4	43.2	31.1	16.4 35.2	4.7	29.0 51.7
047 FARGO HECTOR AP	MEAN	6.8	14.1	27.2	43.5	57.4	66.0	70.6	69.0	58.0	45.3	27.0	12.5	41.5
	MIN	-2.3	5.4	19.0	32.4	45.3	54.5	59.0	57.0	46.1	34.4	18.7	4.2	31.1
048 FESSENDEN	MAX	15.5	22.8	35.2	53.7	69.1	76.5	81.6	80.9	70.6	56.0	34.2	20.4	51.4
	MEAN	4.9	12.4	25.1	41.5	56.1	64.6	69.3	67.6	57.4	43.5	24.5	10.4	39.8
	MIN	-5.7	1.9	15.0	29.2	43.1	52.6	56.9	54.3	44.2	30.9	14.7	0.4	28.1
050 FORMAN 5 SSE	MAX	17.5	24.7	36.8	54.5	68.9	77.4	83.2	82.2	71.2	57.4	36.9	23.0	52.8
	MEAN	7.8	15.1	27.7	43.5	57.0	65.8	71.0	69.3	58.3	45.4	27.9	13.9	41.9
OF 1 FORMUNA 1 M	MIN	-2.0	5.4	18.6	32.4	45.1	54.2	58.8	56.4	45.3	33.3	18.8	4.8	30.9
051 FORTUNA 1 W	MAX MEAN	15.5 5.6	23.4 13.6	35.1 25.0	52.4	65.9 53.1	74.8 62.2	80.5	79.9 65.8	67.0 53.8	53.7	32.9 23.7	20.6 11.1	50.1 38.5
	MIN	-4.3	3.7	14.8	28.0	40.2	49.5	53.6	51.6	40.5	28.8	14.5	1.5	26.9
052 FORT YATES 4 SW	MAX		30.3			69.1			83.8			39.4		55.6
032 1001 1111110 1 500	MEAN	13.4	20.6	30.7	44.6	57.4	66.7	72.5	71.1	60.0	47.6		17.9	44.4
	MIN	3.2	10.9		32.8	45.7	55.1	60.2	58.3	46.9	35.2	20.8	8.5	33.2
053 FOXHOLM 7 N	MAX	16.5	23.8	36.3	53.4	67.6	76.1	82.0	81.5	69.8	56.0	35.0	21.8	51.7
	MEAN	6.3	14.1	25.6	40.9	55.0	63.8	68.6	66.8	55.9	43.3	25.1	11.9	39.8
	MIN	-4.0		14.9	28.3	42.4	51.5	55.2	52.1	41.9	30.6	15.2	2.0	27.9
054 FULLERTON 1 ESE	MAX	19.8	27.3	39.3	57.4	71.2	79.1	84.8	83.5	73.2	58.9	37.1	24.2	54.7
	MEAN	9.6	17.0	29.1	44.4	57.5	66.0	71.2	69.4		46.2	27.9	14.5	42.7
OFF GACKIE	MIN	-0.7	6.6	18.8	31.4	43.7	52.9	57.5	55.3	45.0	33.4	18.7	4.8	30.6
055 GACKLE	MAX MEAN	18.0	24.8 15.9	36.4 27.4	54.6 43.0	68.8 56.5	77.3 65.4	82.8	81.7 69.2	70.9 58.4	57.1 45.6	35.6 27.1	22.5 13.8	52.5 41.8
	MIN	-0.3		18.3	31.4	44.1	53.5	58.5		45.9	34.1	18.5	5.1	31.1
056 GARRISON 1 NNW	MAX	18.1	25.4	36.9	53.5	67.3	75.4	81.2	81.0	69.4	56.1	36.3	23.5	52.0
	MEAN	7.5	14.8	26.6	41.5	54.6	63.2	68.2	67.4	56.2	43.4	26.5	13.6	40.3
	MIN	-3.1	4.1	16.2	29.4	41.9	50.9	55.2	53.7	42.9	30.7	16.6	3.7	28.5
058 GRAFTON	MAX	13.0	20.9	33.3	53.0	69.7	77.7	81.7	81.1	69.7	55.0		18.3	50.5
	MEAN	5.1	12.9	25.7	43.0	58.2	67.0	71.1	69.6	58.9	45.6	26.3	11.0	41.2
	MIN	-2.8	4.9	18.0	32.9	46.6	56.2	60.4	58.1	48.1	36.1	19.7	3.7	31.8
059 GRAND FORKS INTL AP	MAX	14.9	22.4	34.3	53.6	70.0	77.6	81.9	81.0	69.7	55.6	34.1	20.1	51.3
	MEAN	5.3	13.1	25.7	42.3	56.8	65.2	69.4	67.8	57.0	44.3	25.8	11.3	40.3
060 GDAND DODG	MIN	-4.3	3.7	17.1	31.0	43.5	52.8	56.8	54.5	44.3	33.0	17.4	2.5	29.4
060 GRAND FORKS UNIV NWS	MAX	l	22.3	34.3	53.4		76.9	80.7	80.0	68.8	54.7	33.2	19.3	50.6
	MEAN MIN	5.3 -4.0	12.9	25.6 16.9	42.2	56.5 43.8	65.3 53.6	69.2	67.8 55.5	57.0 45.2	44.3	25.6 17.9	11.0 2.7	40.2
	1.17.14	1.0	5.5	10.9	31.0	15.0	55.0	37.7	33.3	15.2	33.0	11.9	2.1	27.0

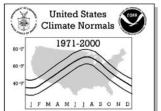
United States Climate Normals 1971-2000 60 -7 40 -7 J F M A M J J A S O N D

CLIMATOGRAPHY OF THE UNITED STATES NO. 81

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

NORTH DAKOTA

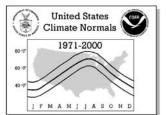
							TEMP	ERATU	RE NOF	RMALS	(Degree:	s Fahrer	nheit)		
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NÓV	DEC	ANNUAL
061	GRANVILLE	MAX	18.6 8.6	26.1 16.5	37.3 27.7	55.4 42.9	69.6 56.2	78.1 64.9	82.9	83.2	70.7 57.5	57.3 45.1	37.3 27.6	23.6 13.9	53.3 41.6
		MEAN MIN	-1.5	6.8	18.0	30.4	42.7	51.7	55.7	53.7	44.2	32.8	17.8	4.2	29.7
062	GRASSY BUTTE 2 ENE	MAX	22.0	29.2	40.5	55.7	68.3	76.1	82.7	82.8	70.4	56.4	36.8	25.0	53.8
		MEAN	12.4	19.7	29.8	42.8	54.6	62.7	68.4	67.9	56.7	44.5	27.5	16.0	41.9
		MIN	2.8	10.2	19.0	29.9	40.9	49.3	54.1	52.9	43.0	32.5	18.2	6.9	30.0
063	GRENORA	MAX	17.6	26.0	39.1	55.2	68.5	77.1	83.0	82.2	69.9	56.8	34.9	22.1	52.7
		MEAN MIN	6.9 -3.8	16.0 5.9	28.2 17.2	42.1	55.1 41.6	63.7 50.3	68.8	67.3 52.3	55.9 41.8	43.7	25.2 15.4	11.7	40.4 28.0
065	HANKINSON	MAX	18.9	25.6	36.7	54.6	69.5	78.3	83.7	82.2	71.6	58.5	38.1	24.5	53.5
		MEAN	8.3	15.1	27.3	43.6	57.3	66.4	71.4	69.3	58.6	46.2	28.6	14.6	42.2
		MIN	-2.3	4.5	17.8	32.5	45.0	54.4	59.0	56.3	45.6	33.8	19.0	4.6	30.9
066	HANNAH	MAX	13.1	20.1	32.2	51.8	68.8	75.8	79.3	79.4	68.6	55.1	32.9	18.0	49.6
		MEAN	2.6 -7.9	9.7 -0.8	22.0 11.7	39.5	54.6 40.4	62.6 49.4	66.2 53.0	65.0 50.6	55.0 41.4	43.0	23.5	8.0 -2.0	37.6
067	HANSBORO 4 NNE	MIN MAX	11.9	19.4	31.0	50.1	66.2	74.0	78.6	78.6	67.4	53.2	14.1	17.1	25.7 48.2
" "		MEAN	0.8	8.8	21.3	38.7	53.0	61.2	65.5	64.2	53.5	40.5	20.9	6.7	36.3
		MIN	-10.4	-1.8	11.6	27.3	39.8	48.4	52.3	49.8	39.6	27.8	10.7	-3.8	24.3
068	HARVEY	MAX	19.5	27.2	38.8	57.5	72.4	79.3	84.5	84.3	73.5	59.7	37.6	24.3	54.9
		MEAN	9.3	17.1	28.7	44.4	58.0	66.0	70.8	69.7	59.3	46.7	27.7	14.8	42.7
060	HEART BUTTE DAM	MIN MAX	-1.0 22.4	7.0	18.5 39.9	31.3	43.6	52.6 76.6	57.0	55.0 82.6	45.1 71.6	33.7	17.8 39.0	5.3	30.5 54.5
009	HEART BOTTE DAM	MEAN	11.2	18.4	28.5	42.4	55.1	64.4	70.0	68.7	57.5	45.0	28.2	16.4	42.2
		MIN	0.0	7.1	17.1	29.6	42.4	52.1	56.9	54.8	43.3	31.5	17.4	5.4	29.8
070	HEBRON	MAX	20.9	28.1	38.9	53.9	66.7	75.2	81.8	81.1	69.5	56.1	36.9	25.5	52.9
		MEAN	10.7	17.9	28.2	41.7	54.2	63.0	68.5	67.2	55.9	43.3	27.1	15.6	41.1
071	HERMINGER	MIN	0.5	7.7	17.5	29.5	41.6	50.8	55.1	53.2	42.2	30.4	17.2	5.7	29.3
0 /1	HETTINGER	MAX MEAN	24.4 13.7	20.1	40.3	54.0	66.2 53.6	75.8 63.1	83.0	82.7 67.9	71.1 56.6	44.3	39.3	28.3 17.4	54.5 42.1
		MIN	3.0	9.7	18.3	29.6	41.0	50.4	55.0	53.1	42.0	30.6	17.0	6.4	29.7
072	HILLSBORO 3 N	MAX	15.8	23.0	35.0	54.0	69.9	77.6	82.5	81.5	70.1	56.2	35.2	21.3	51.8
		MEAN	5.7	12.8	25.5	42.3	56.9	65.4	70.1	68.5	57.4	44.6	26.3	12.2	40.6
0.70		MIN	-4.4	2.5	16.0	30.6	43.8	53.2	57.7	55.5	44.6	33.0	17.3	3.1	29.4
0/3	HURDSFIELD 8 SW	MAX MEAN	16.0 5.6	22.7 12.5	34.4	51.7 38.9	66.1 52.9	74.5 61.8	80.4	80.1 65.5	68.7 54.5	55.0 41.6	34.1 24.2	21.1 11.0	50.4 38.3
		MIN	-4.8	2.2	13.2	26.0	39.6	49.0	53.7	50.9	40.2	28.2	14.3	0.8	26.1
074	JAMESTOWN MUNICIPAL AP	MAX	17.9	24.9	36.7	54.2	69.1	77.2	83.0	81.9	70.3	56.4	35.6	22.4	52.5
		MEAN	8.7	15.9	27.9	42.9	56.7	65.4	70.7	69.0	57.9	45.2	27.1	13.8	41.8
0.55		MIN	-0.5	6.9	19.1	31.5	44.2	53.5	58.3	56.1	45.4	33.9	18.6	5.2	31.0
075	JAMESTOWN ST HOSPITAL	MAX MEAN	16.2 6.2	23.5 13.4	35.6 25.5	53.8	69.2 55.3	77.7 64.7	83.2	82.0 67.9	70.7 56.8	56.3 43.9	34.8 25.6	21.1 11.9	52.0 40.2
		MIN	-3.8	3.3	15.3	27.8	41.3	51.7	57.1	53.8	42.9	31.5	16.4	2.7	28.3
076	KEENE 3 S	MAX	21.0	28.9	40.8	57.0	69.6	77.8	83.9	84.3	72.1	58.6	37.2	25.3	54.7
		MEAN	10.8	18.6	29.6	43.5	55.5	64.1	69.4	69.2	57.9	45.6	27.6	15.4	42.3
		MIN	0.5	8.3	18.3	30.0	41.4	50.4	54.8	54.0	43.7	32.6	18.0	5.5	29.8
0.7.7	KENMARE 1 WSW	MAX	17.1	24.2 14.2	35.5 25.2	52.5	66.1 53.4	74.7 62.4	80.2	79.7	67.9 54.3	54.6 42.1	34.9 25.1	21.9 12.2	50.8 39.0
		MEAN MIN	6.7 -3.7	4.1	14.9	28.2	40.7	50.0	53.8	65.4 51.1	40.7	29.6	15.2	2.5	27.3
080	LA MOURE	MAX	18.0	25.7	37.6	54.8	69.2	77.3	83.1	81.8	71.2	57.8	37.0	23.6	53.1
		MEAN	7.1	14.6	27.1	42.4	55.8	64.8	69.9	67.6	56.8	44.1	26.6	13.2	40.8
		MIN	-3.8	3.4	16.5	30.0	42.3	52.2	56.6	53.4	42.3	30.3	16.1	2.7	28.5
081	LANGDON EXP FARM	MAX	9.9	17.3	29.4	48.3	64.8	72.9	76.7	76.6	65.6	51.3	30.1	15.3	46.5
		MEAN MIN	0.4 -9.1	7.6 -2.1	20.2 11.0	37.8	52.6 40.3	61.5 50.0	65.4 54.0	64.2 51.8	53.5 41.3	40.2	21.5 12.9	6.6 -2.2	36.0 25.4
082	LARIMORE	MAX	13.9	21.3	33.0	51.6	67.7	75.7	80.1	79.1	68.5	54.7	33.9	19.7	49.9
		MEAN	4.9	11.9	23.6	39.8	55.0	64.0	68.3	66.3	55.4	43.1	25.3	10.5	39.0
		MIN	-4.1	2.4	14.2	27.9	42.3	52.2	56.5	53.5	42.3	31.5	16.7	1.3	28.1
083	LEEDS	MAX	14.3	21.5	32.9	51.4	67.2	75.5	80.1	80.0	68.2	54.7	33.6	19.6	49.9
		MEAN	4.1 -6.2	11.2	$\frac{22.4}{11.9}$	38.8	53.5 39.7	62.7 49.8	67.0 53.8	65.1 50.1	54.2 40.2	42.1 29.4	24.3 14.9	10.0	38.0 25.9
084	LINTON	MIN MAX	20.3	27.8	39.7	55.9	69.1	78.0	84.5	83.5	72.1	58.5	37.4	24.8	54.3
"		MEAN	9.5	17.5	29.4	43.6	56.1	65.1	71.1	69.7	58.0	45.0	27.2	14.7	42.2
		MIN	-1.4	7.2	19.0	31.2	43.1	52.2	57.6	55.8	43.8	31.4	16.9	4.5	30.1
085	LISBON	MAX	17.0	23.9	36.1	54.7	69.1	78.2	83.6	82.5	71.3	57.7	36.7	22.9	52.8
		MEAN	6.9	13.8	26.4	42.1	55.9	65.3	70.5	68.6	57.1	44.4	27.1	13.3	41.0
088	MANDAN EXPERIMENT STN	MIN MAX	-3.3 20.4	3.7 27.2	16.6 38.6	29.4	42.7 67.9	52.4 76.5	57.4 82.8	54.7 81.9	42.8	31.1	17.5 37.8	3.6 25.0	29.1 53.4
	THE PART DISTRIBUTION	MEAN	10.0	17.2	28.5	42.7	55.7	64.6	70.2	68.7	57.3	44.7	27.9	15.1	41.9
		MIN	-0.5	7.2	18.4	31.0	43.4	52.6	57.5	55.4	44.1	32.0	18.0	5.2	30.4
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

NORTH DAKOTA

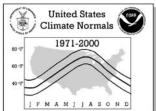
No.	Station Name	Element	JAN	FEB	MAR	APR	TEMP MAY	PERATU JUN	RE NOF	RMALS (AUG	Degrees SEP	s Fahrer OCT	nheit) NOV	DEC	ANNUAL
090	MAX	MAX	16.5	23.9	35.5	52.1	66.4	74.9	80.7	80.2	68.0	54.4	34.1	21.3	50.7
		MEAN MIN	7.2	14.5 5.0	25.7 15.9	40.6	54.3 42.2	63.2 51.5	68.3	66.6 53.0	55.1 42.2	42.5	25.3 16.5	12.3	39.6 28.6
091	MAYVILLE	MAX	16.4	24.6	36.5	56.2	71.3	78.8	83.3	82.3	71.2	57.2	35.6	21.5	52.9
0,51	1111 / 1222	MEAN	6.3	14.0	26.5	43.3	57.5	65.8	70.1	68.6	58.2	45.6	26.7	12.0	41.2
		MIN	-3.9	3.3	16.5	30.4	43.6	52.8	56.9	54.9	45.1	33.9	17.8	2.4	29.5
092	MC CLUSKY	MAX	18.3	25.5	37.5	55.4	69.9	78.1	83.5	82.9	71.3	57.2	35.8	22.7	53.2
		MEAN	9.2	16.5	28.1	43.3	56.9	65.6	70.6	69.5	58.5	45.5	27.2	14.0	42.1
		MIN	0.0	7.5	18.7	31.2	43.9	53.1	57.6	56.0	45.6	33.7	18.6	5.3	30.9
093	MC HENRY 3 W	MAX	14.3	22.1	33.7	52.4	68.4	75.8	81.1	80.3	68.7	54.8	33.2	19.1	50.3
		MEAN MIN	4.8	12.6	24.9 16.0	41.2	55.7 42.9	64.0 52.2	69.0 56.9	67.5 54.6	56.5 44.2	43.7	24.9 16.6	10.5	39.6 28.8
004	MC LEOD 3 E	MAX	16.0	23.3	35.9	54.7	69.7	78.1	83.0	82.0	71.0	57.4	36.0	21.5	52.4
024	MC DEOD 3 E	MEAN	5.3	12.6	26.0	42.7	57.2	66.1	70.9	69.3	58.3	45.0	26.3	11.7	41.0
		MIN	-5.5	1.9	16.0	30.7	44.6	54.0	58.7	56.5	45.6	32.6	16.6	1.9	29.5
095	MC VILLE	MAX	14.6	22.6	34.5	53.8	69.8	77.5	82.6	81.2	70.0	55.6	33.3	19.3	51.2
		MEAN	4.8	12.6	25.0	41.5	56.1	64.7	69.5	67.6	56.9	43.5	24.5	10.2	39.7
		MIN	-5.0	2.5	15.4	29.2	42.3	51.8	56.3	53.9	43.8	31.4	15.6	1.1	28.2
097	MEDORA	MAX	27.3	35.1	44.8	58.1	69.9	78.7	86.2	86.1	74.4	61.3	42.3	30.9	57.9
		MEAN	15.6	23.2	32.4	44.3	55.8	64.7	70.9	70.0	58.3	46.6	30.5	19.4	44.3
000	MINOT AP	MIN MAX	3.9 18.2	11.3 25.2	20.0	30.5	41.7	50.6 75.6	55.6 81.2	53.8	42.2	31.8	18.7 35.0	7.8	30.7
098	MINOI AP	MAX MEAN	9.8	17.2	28.0	42.8	55.6	64.4	69.6	68.2	57.0	44.7	27.2	14.9	41.6
		MIN	1.4	9.1	19.4	31.8	44.0	53.1	57.9	55.7	45.5	34.2	19.4	6.7	31.5
099	MINOT EXPERIMENT STN	MAX	16.8	23.6	35.2	52.5	67.2	75.5	80.4	80.0	67.7	54.4	34.4	21.8	50.8
		MEAN	7.5	14.6	25.9	41.1	55.0	63.9	68.4	67.0	55.6	43.2	25.9	12.8	40.1
		MIN	-1.8	5.6	16.6	29.7	42.7	52.3	56.3	53.9	43.5	31.9	17.3	3.8	29.3
100	MOFFIT 3 SE	MAX	20.9	27.8	39.9	57.3	71.0	79.2	85.3	85.0	74.2	60.1	38.5	25.0	55.4
		MEAN	10.1	17.4	29.0	44.1	57.2	65.9	71.3	70.1	59.3	46.4	28.2	14.9	42.8
		MIN	-0.7	6.9	18.0	30.8	43.3	52.6	57.2	55.1	44.3	32.7	17.9	4.8	30.2
101	MOHALL	MAX	16.0	23.2	34.8	52.8	67.3	75.6	80.4	80.8	68.7	54.9	34.6	21.4	50.9
		MEAN	5.9 -4.3	13.0	24.3 13.8	39.4	53.0 38.6	61.9 48.2	66.3 52.2	65.2 49.5	53.8 38.9	41.7	24.9	11.5	38.4 25.9
103	MOTT	MIN MAX	23.6	30.8	40.8	55.0	67.5	76.6	83.5	83.4	72.0	28.5	15.2 39.0	28.0	54.9
103	11011	MEAN	12.1	19.4	28.9	41.5	54.2	63.5	69.4	67.9	56.4	43.9	27.6	16.4	41.8
		MIN	0.5	7.9	17.0	28.0	40.9	50.3	55.2	52.3	40.8	29.3	16.1	4.8	28.6
104	NAPOLEON	MAX	18.0	24.9	36.5	53.0	67.0	75.8	82.3	81.4	70.2	56.8	36.6	22.9	52.1
		MEAN	8.3	15.1	27.0	41.9	54.8	63.9	69.5	68.2	57.0	44.3	26.7	13.5	40.9
		MIN	-1.5	5.2	17.5	30.7	42.6	52.0	56.6	54.9	43.8	31.7	16.8	4.0	29.5
105	NEW ENGLAND	MAX	24.7	31.6	41.6	55.4	67.9	77.0	83.5	82.8	71.1	58.1	39.3	28.7	55.1
		MEAN	14.2	21.2	30.4	42.8	54.9	64.0	69.5	68.5	57.1	44.9	28.5	18.0	42.8
106	NEW SALEM 5 NW	MIN MAX	3.7 19.4	10.8	19.1	30.2	41.9 67.7	51.0 76.3	55.5 82.7	54.1 81.9	43.0	31.6	17.7 36.2	7.2	30.5
100	NEW SALEM 5 NW	MEAN	8.8	15.9	27.3	41.6	54.8	63.5	69.1	67.8	57.2	43.7	26.0	13.4	40.8
		MIN	-1.9	5.1		29.0	41.8	50.7	55.5	53.6	43.3	30.5	15.8	3.1	28.6
107	OAKES 2 S	MAX		25.0			70.3			83.3			36.9		53.5
		MEAN		14.8	27.3	43.0	56.7	65.8	70.8	69.1	58.2	44.9		13.7	41.6
		MIN	-2.9	4.6	17.6	30.9	43.1	52.5	57.2	54.9	44.1	31.8	17.2	3.8	29.6
108	PARK RIVER	MAX	14.7	22.5	34.4	53.5	69.4	77.5	81.5	80.3	69.6	55.6	33.6	19.6	51.0
		MEAN	5.9	13.5	25.5	42.0	56.4	65.2	69.4	67.5	57.3	44.7	25.8	11.5	40.4
100	DEMDINA	MIN	-3.0	4.5	16.5	30.4	43.3	52.8	57.2		45.0	33.7	18.0	3.3	29.7
T 0 9	PEMBINA	MAX MEAN	11.5	19.3 8.6	31.7 21.9	51.5 39.5	67.9 54.5	75.6 63.0	79.7	79.1 65.1	67.9 54.4	53.5 41.6	32.5 23.5	17.5 7.9	49.0 37.3
		MEAN	-9.2	-2.1	12.1	27.5	41.1	50.4	54.1	51.1	40.8	29.7	14.4	-1.7	25.7
110	PETERSBURG 2 N	MAX	12.6	19.9	31.5	50.3	66.5	74.7	79.1	78.6	67.7	53.5	32.3	17.9	48.7
		MEAN	2.5	9.7	22.2	39.3	53.9	62.8	66.9	65.4	54.7	41.7	23.4	8.5	37.6
		MIN		-0.5	12.9	28.3	41.3	50.8	54.6	52.1	41.6	29.8	14.5	-0.9	26.4
111	PETTIBONE	MAX	16.8	24.3	36.4	54.9	69.3	77.3	83.0	82.5	70.8	56.6	35.5	21.6	52.4
		MEAN	7.3	14.9	26.9	43.0	56.3	65.0	70.4	69.3	58.0	44.9	26.6	12.5	41.3
		MIN	-2.3	5.4	17.4	31.1	43.3	52.7	57.7	56.0	45.2	33.2	17.7	3.4	30.1
112	POWERS LAKE 1 N	MAX	16.0	23.4	34.9	52.3	66.6	74.2	79.6	79.4	67.5	54.5	34.3	21.4	50.3
		MEAN	5.3	13.3	24.9	40.1	53.2	61.7	66.5	65.5	54.0	41.6	24.2	10.8	38.4
112	DDFTTV DOCK	MIN	-5.5 23.3	3.2	14.9	27.9	39.7 68.5	49.1	53.4		40.5	28.6	14.1 38.6	0.2	26.5
113	PRETTY ROCK	MAX MEAN	13.5	20.6	40.4 30.0	55.6 43.0	55.3	$77.4 \\ 64.4$	84.6	84.0 69.3	72.7 58.2	58.5 45.7	28.8	27.7 17.8	55.1 43.1
		MIN	3.6	10.8	19.6	30.4	42.0	51.3	55.9	54.5	43.6	32.9	18.9	7.9	31.0
116	RICHARDTON ABBEY	MAX	22.1	29.0	39.8	54.5	67.3	75.8	82.0	81.1	69.5	56.1	37.0	25.9	53.3
		MEAN	13.5		30.3	43.4	55.7	64.3	70.0	68.9	57.9	45.6	28.8	17.4	43.0
		MIN			20.7	32.2		52.8	57.9		46.3	35.1		8.9	32.6



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

NORTH DAKOTA

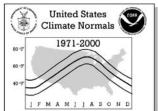
No.	Station Name	Element	JAN	FEB	MAR	APR	TEMF MAY	PERATU JUN	RE NOF	RMALS (Degree SEP	s Fahrer OCT	nheit) NOV	DEC	ANNUAL
118	ROLLA 3 NW	MAX	13.1	19.9	30.1	47.9	63.5	70.8	75.3	74.7	63.3	50.5	30.6	17.5	46.4
		MEAN	4.1	10.6	21.5	37.6	51.6	60.1	65.1	64.0	53.1	40.9	22.9	9.2	36.7
110	DIJODY	MIN	-4.9	1.3	12.9	27.2	39.7	49.4	54.8	53.2	42.8	31.2	15.2	0.9	27.0
119	RUGBY	MAX MEAN	15.8 5.6	23.4 13.5	35.3 25.5	54.6 42.2	69.6 56.0	77.6 64.5	82.0 68.7	81.4 67.4	69.5 56.0	56.2 43.6	34.2 24.8	20.5	51.7 39.9
		MIN	-4.7	3.5	15.6	29.8	42.3	51.4	55.3	53.3	42.4	31.0	15.4	0.5	28.0
120	SAN HAVEN	MAX	13.4	21.3	32.3	50.9	65.9	73.2	77.8	77.4	65.9	53.1	32.5	18.2	48.5
		MEAN	2.7	10.4	21.6	38.7	52.7	61.0	65.6	63.9	52.6	40.8	22.8	8.2	36.8
		MIN	-8.1	-0.5	10.9	26.5	39.5	48.7	53.3	50.4	39.3	28.5	13.1	-1.9	25.0
121	SHARON	MAX	13.1	20.8	33.1	52.2	67.4	74.5	78.9	78.7	68.2	54.2	32.5	18.0	49.3
		MEAN MIN	4.7 -3.8	12.4	25.0 16.8	41.5	55.6 43.8	63.7 52.8	68.1 57.2	66.9 55.1	56.6 45.0	43.8	24.7 16.9	10.2	39.4 29.5
124	STANLEY 3 NNW	MAX	15.6	22.8	35.0	52.0	66.1	74.7	80.2	80.0	67.6	54.2	33.8	20.5	50.2
		MEAN	5.7	13.1	24.5	39.4	52.5	61.6	66.4	65.1	53.6	41.3	24.1	10.8	38.2
		MIN	-4.2	3.4	13.9	26.7	38.9	48.4	52.6	50.2	39.5	28.4	14.4	1.1	26.1
125	STEELE 3 N	MAX	18.1	25.6	37.5	54.7	68.6	76.6	82.8	82.4	71.3	57.7	36.5	22.7	52.9
		MEAN	7.7	15.0	27.1	42.5	55.8	64.5	69.9	68.5	57.6	44.6	26.3	12.9	41.0
100	CERTIFIED 7 NU	MIN	-2.8	4.4	16.7	30.2	42.9	52.4	57.0	54.5	43.9	31.5	16.0	3.0	29.1
126	STREETER 7 NW	MAX MEAN	18.3 7.5	24.4 13.9	36.4 25.8	53.0	66.6 53.6	74.4 62.5	81.3	80.1 66.7	68.9 55.7	56.2 43.3	36.0 26.1	22.8	51.5 39.7
		MIN	-3.4	3.4	15.1	28.1	40.5	50.5	55.0	53.3	42.5	30.4	16.1	2.2	27.8
129	TIOGA 1 E	MAX	16.7	24.4	36.4	53.4	66.8	75.3	81.2	80.9	68.2	55.0	34.0	21.7	51.2
		MEAN	6.9	15.1	26.3	40.8	53.4	62.4	67.4	66.5	54.5	42.4	24.9	12.1	39.4
		MIN	-2.9	5.7	16.1	28.1	39.9	49.5	53.6	52.0	40.7	29.7	15.8	2.5	27.6
130	TOWNER 2 NE	MAX	14.8	22.5	34.1	52.9	67.9	76.6	81.7	81.2	69.3	55.8	34.1	20.4	50.9
		MEAN MIN	4.0 -6.9	11.5	23.5 12.8	40.1 27.3	54.1 40.3	63.2 49.7	67.8 53.9	66.5 51.7	55.1 40.8	42.4 28.9	$24.1 \\ 14.1$	10.0	38.5 26.1
131	TROTTERS 3 SSE	MAX	23.0	30.1	41.3	55.8	67.4	76.2	83.0	82.5	69.9	56.5	37.4	26.5	54.1
	INGITERS 5 DDE	MEAN	13.5	20.7	30.7	43.3	54.7	63.5	69.3	68.5	56.9	44.8	28.2	17.2	42.6
		MIN	4.0	11.3	20.1	30.8	42.0	50.8	55.6	54.4	43.9	33.0	19.0	7.9	31.1
132	TURTLE LAKE	MAX	17.6	24.6	36.7	53.6	67.6	75.9	82.0	81.4	70.1	56.6	35.8	22.6	52.0
		MEAN	7.4	14.7	26.9	41.4	54.7	63.5	68.8	67.7	56.7	44.0	25.9	12.8	40.4
122	TUTTLE	MIN MAX	-2.8 21.2	4.7	17.0 39.5	29.1	41.7	51.1 78.8	55.6 84.3	53.9 84.5	43.2	31.4	15.9 39.1	2.9	28.6 55.1
133	101111	MEAN	10.5	17.5	28.7	43.6	56.8	65.1	70.1	69.1	57.7	45.6	28.5	15.5	42.4
		MIN	-0.3	7.0	17.9	30.4	42.5	51.4	55.9	53.7	42.8	32.0	17.9	4.8	29.7
134	UNDERWOOD	MAX	17.0	24.3	36.9	53.5	67.6	76.0	81.9	81.1	70.2	55.9	34.6	21.5	51.7
		MEAN	7.1	14.3	26.5	41.5	55.1	64.0	69.2	67.6	57.3	43.7	25.5	12.2	40.3
125	IIDIIAN 2 M	MIN	-2.8	4.2	16.0	29.4	42.6	51.9	56.4	54.1	44.3	31.5	16.3	2.9	28.9
135	UPHAM 3 N	MAX MEAN	15.1	23.3	35.0 23.8	53.8	68.5 54.8	76.4 63.3	81.4	81.1 66.0	69.5 54.5	56.1 41.4	34.9 23.7	20.5	51.3 38.3
		MIN	-8.6	-0.6	12.5	27.7	41.0	50.1	53.4	50.9	39.4	26.6	12.5	-1.9	25.3
136	VALLEY CITY 3 NNW	MAX	16.3	23.5	35.4	53.2	68.1	75.8	80.8	79.9	69.5	56.5	35.6	21.6	51.4
		MEAN	5.7	12.9	25.5	41.0	55.1	63.8	68.5	66.6	56.1	43.7	26.0	11.9	39.7
		MIN	-4.9	2.3	15.6	28.8	42.1	51.7	56.2	53.3	42.6	30.9	16.3	2.2	28.1
137	VELVA 3 NE	MAX	18.0	25.6	37.5	54.8	69.1	77.2	82.3	81.3	70.2	57.0	35.8	22.8	52.6
		MEAN MIN	7.1 -3.8	14.6 3.6	26.3 15.0	41.5	55.5 41.9	64.4 51.5	69.1	67.0 52.6	56.1 42.0	43.6	25.7 15.5	12.6 2.4	40.3 27.9
139	WAHPETON 3 N	MAX	17.8	24.9	37.2	56.7	71.8	79.9	84.3	82.6	72.1	57.9	36.8	23.0	53.8
		MEAN	8.7	16.0	28.8	45.3	59.3	67.8	72.2	70.3	60.0	47.3	28.9	14.6	43.3
		MIN	-0.5	7.0	20.4	33.9	46.7	55.7	60.0	57.9	47.9	36.6	20.9	6.2	32.7
141	WASHBURN	MAX	20.0	27.3	39.5	55.6	69.2	77.6	83.3	82.8	72.0	58.0	37.0	24.0	53.9
		MEAN	9.7	16.9	28.7	43.2	56.2	64.9	70.0	68.9	58.4	45.5	27.7	14.8	42.1
1/12	WATFORD CITY	MIN MAX	-0.7 19.1	6.5	17.9 39.4	30.7	43.2	52.2 76.9	56.7 83.6	54.9 83.4	44.7	32.9 57.0	18.4 37.2	5.5	30.2 53.6
143	WAIFORD CITI	MEAN	8.2	17.0	27.6	41.3	53.9	63.0	68.6	67.5	55.2	43.1	26.1	14.0	40.5
		MIN	-2.8	5.5	15.7	27.6	39.9	49.0	53.6	51.6	39.9	29.1	15.0	3.0	27.3
144	WATFORD CITY 14 S	MAX	25.1	32.9	44.2	58.7	70.8	79.2	86.0	86.2	74.1	60.7	40.3	29.0	57.3
		MEAN	13.6	21.6	32.0	44.8	56.6	65.2	70.8	70.2	58.6	46.6	29.4	17.9	43.9
1.4-		MIN	2.1	10.2	19.8	30.8	42.3	51.2	55.6	54.1	43.1	32.4	18.4	6.7	30.6
145	WESTHOPE	MAX	14.2	22.3	34.6	54.8	69.6	76.9	81.0	81.0	69.7	55.7	33.4	19.0	51.0 39.5
		MEAN MIN	4.7 -4.9	12.8	25.2 15.7	42.2	55.9 42.2	64.0 51.1	67.9	66.9 52.8	56.2 42.6	43.4	24.6 15.8	10.0	39.5 27.9
146	WILDROSE 3 NW	MAX	15.8	23.3	35.4	52.7	66.1	74.8	80.2	80.0	67.5	54.2	33.6	20.9	50.4
		MEAN	6.1	13.8	25.5	40.7	53.5	62.4	67.1	65.8	54.3	41.9	24.6	11.6	38.9
		MIN	-3.6	4.2	15.6	28.6	40.8	50.0	54.0	51.5	41.1	29.6	15.6	2.3	27.5
147	WILLISTON SLOULIN AP	MAX	19.4	27.6	40.1	56.0	68.2	77.3	83.4	82.8	70.0	57.0	36.2	24.0	53.5
		MEAN	8.0	16.8	28.7	42.5	54.6	63.7	69.3	68.3	56.1	43.6	25.6	13.0	40.9
		MIN	-3.3	5.9	17.2	29.1	40.9	50.1	55.2	53.8	42.2	30.2	14.9	2.1	28.2



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

NORTH DAKOTA

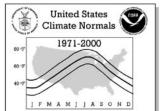
] F M A M]] A S O N D						TEMP	ERATU	RE NOF	RMALS (Degrees	s Fahrer	nheit)		
No. Station Name	Element				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
148 WILLISTON EXP FARM	MAX MEAN MIN	11.3		31.1 20.1	44.9 31.8	70.4 57.1 43.7	65.7 52.6	71.1 57.2	70.2 55.6	58.8 44.8	46.7 33.7		16.1 6.7	55.4 43.4 31.4
149 WILLOW CITY	MAX MEAN MIN	2.1 -8.6	9.8 -1.1	32.7 22.3 11.9	39.9 27.8	67.2 54.1 40.9	62.7 50.3	67.0 54.1	65.3 51.2	53.8 40.1	41.2 28.1	13.2	8.2 -2.0	49.4 37.5 25.5
150 WILTON	MAX MEAN MIN	8.1	15.2	36.1 27.3 18.5	41.7	66.7 54.8 42.8	63.2	68.3	67.3	56.7	43.9	34.3 25.8 17.2	13.2	51.0 40.5 29.9



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

NORTH DAKOTA

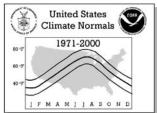
No. Station Name	JAN	FEB	MAR	APR	PREC MAY	JUN	ON NOF	RMALS AUG	(Total in SEP	Inches) OCT	NOV	DEC	ANNUAL
001 ABERCROMBIE	.65	.55	1.25	1.56	2.45	3.03	3.92	2.82	1.93	1.78	.79	.44	21.17
002 ADAMS 7 SSW 003 ALEXANDER 4 NNW	.50	.46 .27	.75 .57	1.07	2.34	3.28	3.54 2.33	2.60 1.45	1.67 1.46	1.37 .92	.70 .57	.45	18.73 14.35
004 ALEXANDER 18 SW	.36	.29	.57	1.03	2.04	2.56	1.87	1.43	1.54	.79	.53	.47	13.23
005 ALMONT	.37	.33	.63	1.49	2.22	3.41	2.48	2.28	1.24	1.17	.62	.40	16.64
003 ALEXANDER 4 NNW 004 ALEXANDER 18 SW 005 ALMONT 006 AMBROSE 3 N 007 AMIDON 008 ASHLEY 009 BEACH 010 BELCOURT KEYA RADIO	.24	.27	.51	1.01	2.11	2.74	2.68	1.87	1.67	.84	.39	.26	14.59
007 AMIDON	.37	.35	.57	1.15	2.29	3.06	2.24	1.42	1.37	1.17	.53	.33	14.85
008 ASHLEY	.41	.39	.94	1.49	2.73	3.48	2.52	2.30	1.57	1.57	.61	.29	18.30
009 BEACH 010 BELCOURT KEYA RADIO	.43	.47	.62	1.56	2.41 2.33	2.63	1.93	1.41 2.61	1.53	1.20	.70 .61	.37	15.26 17.95
011 BERTHOLD	.59	.55	.84	1.54	2.21	3.08	2.79	1.80	1.77	1.32	.77	.51	17.77
012 BEULAH 1 W	.31	.42	.73	1.71	2.21	3.30	2.35	1.53	1.60	1.35	.70	.38	16.59
013 BISMARCK MUNICIPAL AP	.45	.51	.85	1.46	2.22	2.59	2.58	2.15	1.61	1.28	.70	.44	16.84
014 BISMARCK 7 NE	.59	.53	.91	1.59	2.21	2.78	2.79	2.12	1.57	1.38	.85	.56	17.88
015 BOTTINEAU 016 BOWBELLS	.49	.46 .44	.79	1.22	2.16	3.29	3.04 2.96	2.62	1.94	1.27	.66 .46	.51	18.45 16.77
017 BOWMAN	.49	.44	.73	1.32	2.53	3.07	2.90	1.20	1.31	1.33	.59	.42	15.50
016 BOWBELLS 017 BOWMAN 018 BREIEN 019 BUTTE 5 SE 020 CANDO 2 E 021 CARRINGTON	.35	.38	.66	1.60	2.49	2.92	2.69	1.77	1.48	1.32	.52	.35	16.53
019 BUTTE 5 SE	.46	.44	.72	1.42	2.37	2.89	2.65	1.67	1.56	1.39	.70	.38	16.65
020 CANDO 2 E	.27	.29	.44	.92	2.24	3.04	2.81	2.11	1.22	1.24	.55	.30	15.43
021 CARRINGTON	.68	.56	.91	1.36	2.11	3.32	3.15	2.19	1.60	1.45	.89	.51	18.73
022 CARRINGTON 4 N 023 CARSON	.52	.40 .42	.75 .90	1.44 1.70	2.49	3.79 3.06	3.11 2.46	2.48 1.74	1.84	1.82 1.39	.84 .60	.41	19.89 16.70
024 CASSELTON AGRONOMY FRM	.75	.51	1.23	1.43	2.67	3.60	3.24	2.68	2.13	1.89	1.03	.37	21.53
025 CAVALIER 7 NW	.39	.41	.66	1.10	2.19	3.17	3.31	2.63	1.78	1.54	.68	.39	18.25
026 CENTER 4 SE	.40	.45	.71	1.63	2.30	3.00	2.70	1.85	1.85	1.55	.62	.42	17.48
027 CHAFFEE 5 NE	.57	.45	.96	1.45	2.74	3.31	3.29	2.44	2.13	1.96	.86	.39	20.55
028 COLGATE 029 COOPERSTOWN 030 COURTENAY 1 NW 031 CROSBY	.47	.39	.81	1.17	2.49	3.08	2.65	2.42	2.06	1.69	.76	.38	18.37
029 COOPERSTOWN 030 COURTENAY 1 NW	.67	.53 .44	1.01	1.31	2.56	3.30	3.33	2.78	1.96 1.87	1.65 1.54	.90 .71	.50 .41	20.50 18.78
031 CROSBY	.48	.33	.59	1.02	2.01	2.69	2.75	1.54	1.62	.93	.53	.45	14.94
032 DEVILS LAKE KDLR	.58	.51	.80	.90	2.14	3.83	3.29	2.21	1.80	1.47	.83	.57	18.93
033 DICKINSON AP	.37	.43	.69	1.76	2.28	3.31	2.11	1.51	1.62	1.34	.59	.34	16.35
034 DICKINSON EXP STN 035 DICKINSON RANCH HQ 036 DRAKE 9 NE 037 DRAYTON 038 DUNN CENTER 2 SW	.35	.37	.67	1.63	2.24	3.57	2.20	1.65	1.62	1.31	.63	.37	16.61
035 DICKINSON RANCH HQ 036 DRAKE 9 NE	.37	.35	.61 .60	1.50 1.25	2.03	3.18	2.30	1.79 1.97	1.40 1.48	1.06 1.24	.58 .68	.33	15.50 16.36
037 DRAYTON	.50	.34	.76	1.16	2.25	3.33	2.75	2.47	2.23	1.59	.69	.52	18.64
038 DUNN CENTER 2 SW	.40	.41	.68	1.52	2.30	3.26	2.13	1.72	1.57	1.30	.68	.39	16.36
039 EDGELEY 3 WNW	.61	.41	1.16	1.63	2.90	3.26	2.18	2.87	1.80	1.45	.67	.38	19.32
040 EDMORE 1 NW	.50	.40	.65	1.02	2.15	3.21	3.32	2.59	1.71	1.39	.74	.48	18.16
041 EDMUNDS ARROWWOOD REF 042 ELGIN	.57	.58 .32	.82 .78	1.29 1.79	2.20	3.32	3.13	2.51	1.98	1.39 1.37	.63 .72	.42	18.84 17.19
043 ELLENDALE	.45	.50	1.11	1.79	2.67	3.41 3.61	2.14	1.89	1.23	1.37	. 72	.33	21.43
044 ENDERLIN 2 W	.58	.38	.85	1.42	2.62	3.40	3.42	2.20	2.02	1.77	.56	.38	19.60
045 EPPING	.51	.37	.75		1.95			1.82		.84	.52	.48	15.27
046 FAIRFIELD	.31	.33	.56		2.04				1.50		.50	.31	14.79
047 FARGO HECTOR AP 048 FESSENDEN	.76		1.17		2.61	3.51			2.18			.57	21.19 17.07
048 FESSENDEN 049 FORBES 10 NW	.53	.43	1.30	1.12		3.47		1.93		1.32	.67 .76	.46	19.51
050 FORMAN 5 SSE	.65	.53	1.24		2.60			2.25			1.02	.44	20.58
051 FORTUNA 1 W	.34	.36	.76		1.98			1.62		.85	.33	.39	14.53
052 FORT YATES 4 SW	.24	.30	.66	1.34		2.64		1.62		1.26	.35	.23	14.14
053 FOXHOLM 7 N	.51	.44	.80	1.25	1.96	2.97	2.60	1.84		1.39	.68	.46	16.57
054 FULLERTON 1 ESE 055 GACKLE	.75	.66	1.44	1.91	2.84	3.16	2.88	2.22	2.02	1.80	1.03	.41	21.12 18.81
056 GARRISON 1 NNW	.39	.36	.63		2.10	3.12		1.91		1.40	.57	.39	16.02
057 GLEN ULLIN	.45	.43	.77	1.44	2.13	3.27		1.80		1.23	.66	.33	16.32
058 GRAFTON	.52	.50	.85		2.31	3.30		2.39	1.76	1.46	.90	.43	18.32
059 GRAND FORKS INTL AP	.68	.58	.89	1.23	2.21	3.03	3.06	2.72	1.96	1.70	.99	.55	19.60
060 GRAND FORKS UNIV NWS	.78	.62	.89	1.17	2.11	2.98	2.89		1.95	1.59	.86	.59	19.35
061 GRANVILLE 062 GRASSY BUTTE 2 ENE	.37	.49 .37	.83 .67	1.39	2.37	3.47 2.99		1.91 1.49		1.32 1.22	.64 .68	.41	17.70 15.27
063 GRENORA	.32	. 28	.55	1.12	2.38	2.40		1.49		.82	.45	.46	13.56
064 HAGUE	.33	.35	.82		2.48	3.22		2.07		1.61	.60	.28	17.11
065 HANKINSON	.81	.74	1.24	1.76	2.76	3.47	3.35	2.70	2.16	1.80	1.08	.44	22.31
066 HANNAH	.34	. 24	.38		2.04	3.05		3.12	2.24	1.31	.57	.34	17.37
067 HANSBORO 4 NNE	.64	.63	.85	1.12		3.19		2.59		1.22	.81	.57	18.50
068 HARVEY 069 HEART BUTTE DAM	.42	.28	.62 .87		1.97 2.34			2.29		1.48 .99	.45 .77	.28	15.11 15.75
UUD HEART DUITE DAM	.51	.34	.0/	1.70	2.34	∠.9⊥	2.31	1.45	1.10	. 77	. / /	.42	13.75



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

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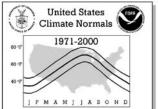
No. Station Name	JAN	FEB	MAR	APR	PREC MAY	IPITATI JUN	ON NOF	RMALS AUG	(Total in SEP	Inches) OCT	NOV	DEC	ANNUAL
070 HEBRON	. 26	.31	.56	1.66	2.53	3.23	2.70	1.64	1.69	1.28	.58	. 29	16.73
071 HETTINGER 072 HILLSBORO 3 N	.30	.32 .55	.60 .93	1.59	2.54 2.35	2.95 3.46	2.16	1.46 2.78	1.40 2.05	1.35	.53 .89	.31	15.51 20.70
073 HURDSFIELD 8 SW	.49	.45	.64	1.26	2.22	3.35	2.57	1.96	1.45	1.35	.69	.39	16.82
074 JAMESTOWN MUNICIPAL AP	.62	.52	.89	1.36	2.21	3.05	3.22	2.33	1.74	1.40	.71	.44	18.49
075 JAMESTOWN ST HOSPITAL	.50	.35	.73	1.27	2.27	3.24	3.28	2.43	2.01	1.49	.63	.33	18.53
076 KEENE 3 S	.39	.37	.59	1.26	2.32	3.19	2.47	1.51	1.68	1.16	.66	.40	16.00
077 KENMARE 1 WSW 078 KILLDEER 8 NW	.83	.63 .50	.90 .87	1.26	2.07	2.66 3.36	2.67	1.80 1.57	1.92 1.65	1.19	.69 .66	.53 .47	17.15 16.92
079 LAKE METIGOSHE ST PK	.68	.68	.80	1.09	2.70	3.15	3.26	2.64	2.24	1.34	.95	.55	20.08
080 LA MOURE	.78	.64	1.36	1.85	2.67	3.69	3.42	2.30	1.90	1.78	.91	.45	21.75
081 LANGDON EXP FARM	.42	.39	.61	1.00	2.36	3.33	3.18	2.73	1.66	1.38	.66	.39	18.11
082 LARIMORE	.53	.53	.97	1.25	2.24	3.57	3.45	2.91	2.05	1.55	.91	.45	20.41
083 LEEDS 084 LINTON	.55	.51 .37	.83 .77	1.28	2.08	2.98 2.95	3.17	2.07 1.80	1.61	1.53	.84 .51	.48	17.93 16.12
085 LISBON	.63	.48	1.09	1.47	2.59	3.45	2.87	2.27	2.20	1.44	.86	. 45	20.18
086 LITCHVILLE 2 NW	.65	.50	1.10	1.66	2.65	3.68	3.18	2.17	2.00	1.97	.90	.44	20.90
087 MADDOCK	.49	.45	.77	1.05	2.03	3.27	3.25	1.92	1.80	1.41	.71	.43	17.58
088 MANDAN EXPERIMENT STN	.38	.37	.58	1.52	2.41	2.91	2.90	2.02	1.56	1.41	.62	.36	17.04
089 MARMARTH 090 MAX	.37	.40	.68 .74	1.38	2.23	2.90 3.21	2.00	1.32	1.24 1.72	1.13	.57 .63	.36 .44	14.58 17.30
091 MAYVILLE	.72	.62	1.08	1.38	2.10	3.50	2.73	2.85	1.72	1.77	.86	.60	20.38
092 MC CLUSKY	.58	.49	.71	1.49	2.13	3.41	2.61	2.06	1.61	1.39	.71	.49	17.68
093 MC HENRY 3 W	.60	.48	.87	1.32	2.28	3.63	3.09	2.76	1.99	1.47	1.03	.57	20.09
094 MC LEOD 3 E	.65	.51	1.01	1.30	2.63	3.39	3.54	2.32	2.05	1.78	.94	.42	20.54
095 MC VILLE 096 MEDINA	.58	.36 .47	.88 .87	1.09	2.26	3.39	3.23	2.54	2.16 1.87	1.38	.83 .61	.46 .36	19.16 17.85
097 MEDORA	.35	.36	.64	1.32	2.26	2.89	2.16	1.38	1.45	1.12	.58	.37	14.91
098 MINOT AP	.65	.53	1.05	1.55	2.31	3.15	2.70	1.95	1.74	1.32	.86	.63	18.44
099 MINOT EXPERIMENT STN	.77	.60	1.03	1.56	2.28	3.01	2.52	2.01	1.78	1.40	1.05	.64	18.65
100 MOFFIT 3 SE	.29	.33	.66	1.31	2.16	3.00	2.84	2.08	1.73	1.36	.50	.27	16.53
101 MOHALL	.52	.42 .54	.73	1.24	2.17	2.98	2.86	2.17	1.89	1.46	.63	.39	17.46
102 MONTPELIER 103 MOTT	.59	.50	1.07	1.73	2.59	3.50	3.05	2.40	2.18	1.67	.91	.41	20.64 16.55
104 NAPOLEON	.58	.51	.98	1.64	2.48	3.20	2.88	2.19	1.77	1.55	.80	.44	19.02
105 NEW ENGLAND	.38	.39	.69	1.62	2.46	3.38	1.93	1.73	1.44	1.37	.47	.38	16.24
106 NEW SALEM 5 NW	.47	.49	.81	1.88	2.42	3.17	2.76	2.11	1.53	1.38	.76	.50	18.28
107 OAKES 2 S 108 PARK RIVER	.60	.44 .56	1.04	1.71	2.45	3.25 3.42	2.76 3.19	2.04	2.26	1.77 1.64	.82 .88	.41 .55	19.55 19.89
109 PEMBINA	.44	.40	.72	.99	2.41	3.42	2.95	2.68	2.12	1.48	.85	. 45	18.58
110 PETERSBURG 2 N	.66	.43	.94	1.17	2.27	3.62	3.25	2.71	2.06	1.54	.90	.51	20.06
111 PETTIBONE	.53	.38	.69	1.34	2.14	3.32	2.81	1.86	1.80	1.44	.71	.43	17.45
112 POWERS LAKE 1 N	.38	.37	.72	1.27	2.12	2.74	2.90	1.94	1.71	1.07	.55	.33	16.10
113 PRETTY ROCK 114 REEDER	.33	.41 .36	.86 .68	1.89	2.64	3.02 3.29	2.34 2.23	1.76 1.59	1.40	1.34	.62 .54	.31	16.92 16.88
115 REEDER 13 N	.39	.41		1.61							.54	.33	16.00
116 RICHARDTON ABBEY	.45	.48	.86		2.49			1.88		1.41	.75	.45	17.78
117 RIVERDALE	.37	.29	.39	1.16	2.04		2.37	1.78		1.17	.38	.26	15.09
118 ROLLA 3 NW	.51	.52	.76	1.13	2.30	3.41		2.55		1.25	.80	.53	18.58
119 RUGBY 120 SAN HAVEN	.51	.45 .58	.80 .61	1.28	2.25 1.90	3.05 2.69	3.21 2.68	2.28	1.92	1.32	.70 .43	.50	18.27 16.30
121 SHARON	.68	.54	1.12	1.33	2.65	3.55	3.45		2.05	1.67	.97	.55	21.23
122 SHERWOOD 3 N	.16	.19	.31	.80	1.77	2.65	2.57		1.44	.91	.28	.23	13.13
123 SHIELDS	.42	.42	.87	1.75	2.61	2.88	2.55		1.31	1.41	.63	.38	16.92
124 STANLEY 3 NNW	.57	.49	.87	1.59	2.58	3.88		2.13		1.23	.76	.54	19.73
125 STEELE 3 N 126 STREETER 7 NW	.48	.44	.98 .68	1.51	2.53 1.96	3.24 3.04	2.95		1.90 1.97	1.55 1.10	.74 .69	.44 .27	18.77 17.09
127 SYKESTON	.57	.51	.88	1.49	2.23	3.39	2.99		1.78	1.73	.83	.47	18.90
128 TAGUS	.66	.54	.96	1.33	1.97	3.14	2.35		1.85	1.22	.72	.59	17.01
129 TIOGA 1 E	.48	.36	.58	1.17	2.00	2.60	2.20	1.80		.94	.59	.40	14.70
130 TOWNER 2 NE	.55	.55	.72	1.21	1.93	2.67	2.69		1.83	1.30	.64	.53	16.68
131 TROTTERS 3 SSE 132 TURTLE LAKE	.35	.39 .49	.58 .85	1.23	2.09	2.90 3.32		1.50 1.96		1.16	.61 .73	.40 .52	14.71 17.62
133 TUTTLE	. 44	.39	.62	1.44	2.19	3.32	2.81	1.77		1.32	.73	.36	16.83
134 UNDERWOOD	.54	.46	.78	1.64	2.25	3.52	2.48	1.77		1.44	.77	.53	17.77
135 UPHAM 3 N	.57	.47	.76	1.33	2.07	3.32	2.71	2.00	1.80	1.28	.85	.56	17.72
136 VALLEY CITY 3 NNW	.54	.46	.80		2.60	3.27		2.43		1.53	.80	.39	18.89
137 VELVA 3 NE 138 VERONA	.68	.50 .35	.78 .97		2.30 2.50	3.22		1.83	1.62 2.04	1.61 1.70	.92 .72	.50 .26	18.10
TO VEROIM	. 39	.35	.91	1./5	2.30	3.31	3.11	∠.∪⊥	2.04	1.70	. / 2	.20	19.17



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

NORTH DAKOTA

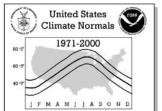
No. Station Name	JAN	FEB	MAR	APR						Inches) OCT		DEC	ANNUAL
139 WAHPETON 3 N	.62		1.02	1.76	2.96	3.33	3.53	2.69	2.43	2.03	.74	.37	21.87
140 WALHALLA 1 SW	.70	.61	.83	1.16	2.15	3.17	3.22	2.58	2.00	1.72			19.74
141 WASHBURN 142 WATAUGA S DAKOTA 8 N	.45 .29	.48	.75		2.26		2.75	1.99	1.67	1.44	.68	.41	
143 WATFORD CITY	.45	.39	.56	1.04	2.13	3.05	2.11	1.55	1.30	.77	.65	.41	
144 WATFORD CITY 14 S	.36	.37	.62	1.30	2.15	2.89	2.17	1.70	1.66	1.35	.55	.37	15.49
145 WESTHOPE	.47	.46	.71	1.16	2.06	3.03	2.90	2.04	1.87	1.21			
146 WILDROSE 3 NW 147 WILLISTON SLOULIN AP	.42 .54	.35 .39	.60 74	1.00	1 88	2.56	2.83	1.56	1.48	.83 .87	.53	.45	14.65 14.16
148 WILLISTON EXP FARM	.48	.34	.62	1.13	2.09	2.72	2.45	1.63	1.56	.94	.58	.45	
149 WILLOW CITY	.52			1.18	1.99	3.10	2.85	2.34	1.72	1.20	.63	.44	17.17
150 WILTON 151 WISHEK	.47	.36	.58	1.44	2.32	3.65	3.06	2.15	1.72	1.43 1.45	.67	.43	18.28 18.45
152 WOODWORTH	.34			1.20						1.45			



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

NORTH DAKOTA

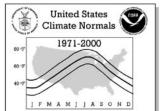
J F M A M J J A S O										YS (Tota	,				
No. Station Name		Element		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
004 ALEXANDER 18	SW	HDD CDD	1689 0	1295 0	1092 0	649	349 15	132 95	53 203	69 193	277 40	646 0	1120 0	1546 0	8917 546
005 ALMONT		HDD CDD	1664 0	1284 0	1092 0	637 1	287 20	102 94	36 190	58 179	236 28	607 0	1109 0	1528 0	8640 512
007 AMIDON		HDD CDD	1535 0	1192 0	1033	635 1	321 24	123 113	34 217	53 208	247 49	593 0	1052 0	1417 0	8235 612
008 ASHLEY		HDD CDD	1718 0	1351	1131	650 1	287 22	92 105	34 224	48 179	235 34	613 0	1129	1565 0	8853 565
009 BEACH		HDD	1546	1205	1040	645	328	127	45	71	251	618	1068	1426	8370
010 BELCOURT KEY	A RADIO	CDD HDD	0 1959	0 1562	0 1378	0 845	14 448	100 195	192 92	194 145	43 398	0 791	0 1293	0 1787	543 10893
012 BEULAH 1 W		CDD HDD	0 1675	0 1291	0 1086	0 642	11 307	38 122	90 37	84 57	6 251	0 597	0 1106	0 1525	229 8696
013 BISMARCK MUN	ICIPAL AP	CDD HDD*	0 1711	0 1329	0 1109	660	30 305	107 93	187 19	188 44	34 256	0 625	0 1112	0 1539	549 8802
015 BOTTINEAU		CDD* HDD	0 1924	0 1528	0 1306	2 760	18 370	80 151	180 66	161 111	30 333	0 732	0 1254	0 1753	471 10288
		CDD	0	0	0	0	22	71	118	124	15	0	0	0	350
016 BOWBELLS		HDD CDD	1826 0	1447 0	1260 0	746 0	377 15	148 66	75 135	112 128	341 16	715 0	1218 0	1661 0	9926 360
017 BOWMAN		HDD CDD	1564 0	1236 0	1090 0	694 0	365 12	138 81	47 183	70 173	283 32	645 0	1095 0	1455 0	8682 481
018 BREIEN		HDD CDD	1678 0	1296	1075	627 0	284	100 106	39 216	49 192	230	608	1102	1525	8613 567
019 BUTTE 5 SE		HDD	1802	1424	1193	689	306	108	35	63	246	629	1183	1638	9316
021 CARRINGTON		CDD HDD	0 1802	0 1432	0 1232	732	28 334	106 119	192 50	182 74	34 289	0 668	0 1188	0 1640	545 9560
022 CARRINGTON 4	N	CDD HDD	0 1815	0 1435	0 1210	1 699	22 309	82 103	160 40	128 71	15 251	0 638	0 1185	0 1642	408 9398
	IN	CDD	0	0	0	4	32	91	161	146	23	0	0	0	457
023 CARSON		HDD CDD	1682 0	1324 0	1159 0	721 0	357 16	144 74	53 162	82 153	289 23	646 0	1121 0	1534 0	9112 428
024 CASSELTON AG	RONOMY FRM	HDD CDD	1841 0	1466 0	1202 0	685 1	294 32	94 101	33 194	53 161	227 25	613 0	1150 0	1630 0	9288 514
025 CAVALIER 7 N	M	HDD CDD	1940	1543	1317	760	357 28	136	58 121	98 111	311	703	1229	1743 0	10195
026 CENTER 4 SE		HDD CDD	1692 0	1344	1157	718	357 15	138 79	55 155	100 159	287 20	643	1136	1539	9166 428
028 COLGATE		HDD CDD	1906 0	1518 0	1269	713	309 26	106 89	38 165	65 157	261 20	673 0	1228	1716 0	9802 458
029 COOPERSTOWN		HDD	1861	1463	1226	707	319	110	41	73	269	655	1204	1679	9607
031 CROSBY		CDD HDD	0 1767	0 1368	0 1145	1 654	26 302	89 112	160 50	142 76	18 279	0 647	0 1175	0 1615	436 9190
032 DEVILS LAKE	ק.דת א	CDD HDD	0 1827	0 1436	0 1226	2 690	24 309	100 101	180 38	160 61	24 258	0 643	0 1178	0 1657	490 9424
	KDIIK	CDD	0	0	0	3	36	95	172	143	20	0	0	0	469
033 DICKINSON AP		HDD CDD	1576 0	1227 0	1072 0	668 1	341 16	129 81	53 189	75 187	272 38	611 0	1081 0	1453 0	8558 512
034 DICKINSON EX	P STN	HDD CDD	1644 0	1291 0	1127 0	711 0	369 9	157 79	63 158	89 158	309 21	672 0	1132 0	1514 0	9078 425
035 DICKINSON RAI	NCH HQ	HDD CDD	1651 0	1289 0	1116	687 0	345 14	135 95	39 174	59 169	272	631 0	1121	1519 0	8864 484
036 DRAKE 9 NE		HDD CDD	1862 0	1471	1255 0	723	321	117 89	50 162	79 142	282	682 0	1221	1688 0	9751 439
038 DUNN CENTER	2 SW	HDD CDD	1619 0	1255 0	1078	632 1	303	120 107	35 196	49	242 43	593 0	1088	1484	8498 581
039 EDGELEY 3 WN	W	HDD CDD	1741	1382	1167	690	311 23	107 85	39 187	56 159	243	615 0	1135	1574 0	9060 479
040 EDMORE 1 NW		HDD CDD	1998 0	1595 0	1345	773	371 19	147 60	70 115	98 105	325	736 0	1293	1805	10556 310
041 EDMUNDS ARRO	WWOOD REF	HDD CDD	1765 0	1378	1155	677 1	289	101 95	30 180	66 158	235 27	595 0	1133	1578 0	9002 488
043 ELLENDALE		HDD CDD	1690 0	1323	1087	601	245	63 123	19 243	34 209	188 41	560 0	1095	1536 0	8441 652
044 ENDERLIN 2 W		HDD	1773	1396	1159	649	276	78	24	54	232	611	1131	1590	8973
046 FAIRFIELD		CDD HDD	0 1698	0 1334	0 1160	716	38 375	108 143	207 63	171 89	27 300	0 672	0 1160	0 1557	554 9267
		CDD	0	0	0	0	12	63	162	156	31	0	0	0	424



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

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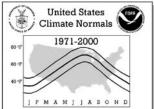
[]FMAM]]								DEGF	REE DA'	YS (Tota	1)				
No. Station Na	me	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
047 FARGO HE	CTOR AP	HDD* CDD*	1808 0	1441 0	1185 0	652 3	271 33	73 104	17 191	37 162	245 38	614 2	1137 0	1612 0	9092 533
048 FESSENDE	N	HDD	1865	1475	1236	709	300	106	47	71	249	668	1216	1694	9636
050 FORMAN 5	SSE	CDD HDD	0 1776	0 1399	0 1156	2 648	23 284	93 89	179 29	151 47	21 231	0 610	0 1115	0 1585	469 8969
		CDD	0	0	0	2	35	113	216	180	30	0	0	0	576
051 FORTUNA	1 W	HDD CDD	1844 0	1440 0	1242 0	744 0	382 12	159 73	72 134	111 134	354 17	737 0	1240 0	1673 0	9998 370
052 FORT YAT	ES 4 SW	HDD	1603	1244	1063	618	268	85	20	32	185	539	1048	1461	8166
053 FOXHOLM	7 N	CDD HDD	0 1824	0 1427	0 1222	4 726	31 339	136 129	252 41	219 96	36 297	0 672	0 1196	0 1647	678 9616
054 FULLERTO	NN 1 FSF	CDD HDD	0 1721	0 1345	0 1115	2 622	25 261	93 82	151 31	152 54	22 203	0 584	0 1114	0 1565	445 8697
	N I EGE	CDD	0	0	0	4	27	113	222	191	26	0	0	0	583
055 GACKLE		HDD CDD	1741 0	1376 0	1167 0	664 3	290 25	90 102	38 214	54 183	231 33	601 0	1138 0	1588 0	8978 560
056 GARRISON	I 1 NNW	HDD	1783	1407	1192	709	337	132	55	79	287	670	1157	1593	9401
058 GRAFTON		CDD HDD	0 1859	0 1459	0 1221	1 667	15 264	77 78	154 19	152 46	22 218	0 603	0 1161	0 1673	421 9268
		CDD	0	0	0	5	53	137	207	188	34	0	0	0	624
059 GRAND FO	ORKS INTL AP	HDD* CDD*	1860 0	1468 0	1233	689 2	294 30	88 85	27 148	53 127	276 27	655 1	1186 0	1660 0	9489 420
060 GRAND FO	ORKS UNIV NWS	HDD	1854	1459	1221	689	304	93	44	69	259	644	1184	1674	9494
061 GRANVILL	ıΕ	CDD HDD	0 1752	0 1359	0 1158	4 666	39 305	100 114	174 38	155 71	19 262	0 619	0 1124	0 1585	491 9053
0.50		CDD	0	0	0	3	31	110	171	177	36	0	0	0	528
062 GRASSY B	BUTTE 2 ENE	HDD CDD	1632 0	1269 0	1092 0	667 0	336 14	148 78	55 161	81 170	282 33	637 0	1126 0	1519 0	8844 456
063 GRENORA		HDD	1803	1373	1143	687	327	131	52	90	307	661	1194	1654	9422
065 HANKINSC	N	CDD HDD	0 1758	0 1399	0 1171	0 645	18 270	92 71	167 23	160 44	31 215	0 584	0 1095	0 1564	468 8839
0.6.6.113.113.11		CDD	0	1551	1226	1	30	113	220	176	22	0	0	1760	562
066 HANNAH		HDD CDD	1937 0	1551 0	1336 0	766 2	353 30	140 69	66 102	118 118	311 11	682 0	1245 0	1769 0	10274 332
067 HANSBORG	4 NNE	HDD CDD	1993 0	1575 0	1355 0	790 1	390 18	166 52	75 88	129 104	355 9	761 0	1323 0	1810 0	10722 272
068 HARVEY		HDD	1730	1342	1127	622	254	89	24	47	207	568	1119	1557	8686
069 HEART BU	ייייד האא	CDD HDD	0 1670	0 1306	0 1131	4 677	37 324	118 114	204 34	191 61	35 253	0 620	0 1105	0 1508	589 8803
009 HEART BO	TIE DAM	CDD	0	0	0	0	16	95	189	176	26	020	0	0	502
070 HEBRON		HDD CDD	1683 0	1319 0	1141	699 0	349 13	141 82	52 159	84 152	298 23	674 0	1140 0	1531 0	9111 429
071 HETTINGE	R	HDD	1590	1257	1106	696	364	138	46	69	278	644	1107	1478	8773
072 HILLSBOR	20 3 N	CDD HDD	0 1839	0 1463	0 1226	0 684	11 290	81 92	171 34	158 50	25 250	0 633	0 1162	0 1638	446 9361
		CDD	0	0	0	2	36	104	191	158	20	0	0	0	511
073 HURDSFIE	LD 8 SW	HDD CDD	1844 0	1471 0	1278 0	784 0	391 14	160 63	59 123	107 122	332 15	726 0	1224 0	1676 0	10052 337
074 JAMESTOW	N MUNICIPAL AP	HDD	1748	1375	1150	667	293	100	30	52	242	616	1138	1588	8999
075 JAMESTOW	N ST HOSPITAL	CDD HDD	0 1826	0 1445	0 1226	728	34 324	111 104	205 36	176 70	26 271	0 654	0 1182	0 1646	555 9512
		CDD	0	0	0	1	22	95	195	160	24	0	0	0	497
076 KEENE 3	S	HDD CDD	1682 0	1299 0	1100 0	647 2	314 19	129 101	52 186	64 191	258 45	602 0	1122 0	1538 0	8807 544
077 KENMARE	1 WSW	HDD	1809	1425	1233	740	380	153	63	124	340	710	1199	1637	9813
080 LA MOURE		CDD HDD	0 1795	0 1413	0 1177	0 680	21 316	73 103	125 34	136 58	19 266	0 650	0 1155	0 1608	374 9255
		CDD	0	0	1200	2	29	96 167	183	140	19	0	0	0	469
081 LANGDON	EAF FAKM	HDD CDD	2004	1609 0	1389 0	818 1	406 19	167 60	88 100	121 97	356 8	768 0	1305 0	1814 0	10845 285
082 LARIMORE		HDD	1865	1488	1283	759 1	337	115	45 146	90	306	680	1191	1690	9849
083 LEEDS		CDD HDD	0 1890	0 1509	0 1319	1 788	27 376	82 141	146 58	131 106	19 334	0 712	0 1222	0 1706	406 10161
0.84 T.TNTTON		CDD HDD	0 1724	0 1330	0 1106	0 645	17 299	70 113	119 32	107 48	10 243	0 622	0 1136	0 1560	323 8858
084 LINTON		CDD	0	1330	0	1	299	113	220	48 192	32	0	1136	1560	583
085 LISBON		HDD CDD	1805 0	1433 0	1198 0	689 1	310 28	85 93	29 199	55 166	263 25	638 0	1137 0	1606 0	9248 512
		עעט	U	U	U		48	93	199	Τρρ	45	U	U	U	217



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

NORTH DAKOTA

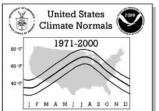
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No. Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
088 MANDAN EXPERIMENT STN	HDD	1708	1338	1132	670	310	111	33	61	257	630	1112	1547	8909
090 MAX	CDD HDD	0 1795	0 1415	0 1219	1 734	21 351	97 141	193 55	173 89	26 312	0 697	0 1191	0 1635	511 9634
	CDD	0	0	0	0	18	87	158	138	15	0	0	0	416
091 MAYVILLE	HDD CDD	1822	1430	1194 0	654 3	272 37	88 111	28 186	51 161	234 30	602 0	1149 0	1644 0	9168 528
092 MC CLUSKY	HDD	1731	1358	1143	654	281	98	30	48	228	605	1135	1581	8892
002 MG HENDY 2 M	CDD	1000	1470	0	2	30	115	203	187	32	0	0	1602	569
093 MC HENRY 3 W	HDD CDD	1869 0	1470 0	1245 0	718 2	321 30	117 87	38 163	68 143	276 20	662 0	1204 0	1693 0	9681 445
094 MC LEOD 3 E	HDD	1854	1468	1212	670	276	80	23	42	228	620	1162	1653	9288
095 MC VILLE	CDD HDD	0 1868	0 1468	0 1241	1 707	33 306	112 112	205 46	173 82	27 265	0 667	0 1216	0 1699	551 9677
OJS NO VIIII	CDD	0	0	0	2	29	102	184	161	22	0	0	0	500
097 MEDORA	HDD	1532	1170	1010	621	308	125	29	60	242	572	1035	1414	8118
098 MINOT AP	CDD HDD	0 1711	0 1340	0 1147	0 670	23 316	115 112	212 33	213 73	41 269	0 630	0 1134	0 1555	604 8990
	CDD	0	0	0	2	24	92	174	172	28	0	0	0	492
099 MINOT EXPERIMENT STN	HDD	1785 0	1410 0	1212 0	718	334	122 89	48	80	299	677 0	1176 0	1618	9479
100 MOFFIT 3 SE	CDD HDD	1704	1333	1117	1 630	22 274	91	152 26	141 45	17 209	577	1103	0 1553	422 8662
	CDD	0	0	0	2	30	119	219	201	36	0	0	0	607
101 MOHALL	HDD CDD	1836 0	1458 0	1262 0	769 0	389 15	156 63	74 113	119 124	352 16	722 0	1203 0	1659 0	9999 331
103 MOTT	HDD	1641	1277	1120	705	346	123	45	83	289	655	1124	1506	8914
	CDD	0	0	0	0	12	76	180	173	31	0	0	0	472
104 NAPOLEON	HDD CDD	1762 0	1398 0	1178 0	696 1	336 19	122 88	41 179	68 165	263 24	644 0	1149 0	1599 0	9256 476
105 NEW ENGLAND	HDD	1575	1227	1074	667	330	126	40	64	271	626	1095	1458	8553
106 3777 637 774 5 377	CDD	0	0	0	0	17	95	178	171	31	0	0	0	492
106 NEW SALEM 5 NW	HDD CDD	1745 0	1376 0	1171 0	703 1	334 16	131 86	44 172	82 168	263 29	660 0	1171 0	1602 0	9282 472
107 OAKES 2 S	HDD	1787	1407	1169	664	289	87	27	45	234	625	1140	1590	9064
100 DADK DIVED	CDD	1026	0 1442	0	1 693	31	109 92	206	173 74	27	0 630	0 1176	1660	547
108 PARK RIVER	HDD CDD	1836 0	1442	1225 0	3	301 33	92 97	31 166	151	254 23	0 0	11/6	1660 0	9414 473
109 PEMBINA	HDD	1982	1582	1337	766	355	136	61	104	328	726	1247	1773	10397
110 PETERSBURG 2 N	CDD HDD	0 1941	0 1551	0 1327	1 772	29 365	76 136	120 57	106 105	7 324	0 723	0 1249	0 1754	339 10304
110 PEIERSBURG 2 N	CDD	0	1331	0	1	22	68	113	116	14	0	1249	1/34	334
111 PETTIBONE	HDD	1793	1405	1181	662	303	101	35	52	240	623	1152	1628	9175
112 POWERS LAKE 1 N	CDD HDD	0 1854	0 1448	0 1244	2 749	32 384	103 164	200 80	183 110	30 347	0 727	0 1224	0 1681	550 10012
TIZ TOWERD EINE I N	CDD	0	0	0	1	16	64	127	126	17	0	0	0	351
113 PRETTY ROCK	HDD	1598	1245	1084	660	319	113	39	56	240	599	1089	1465	8507
116 RICHARDTON ABBEY	CDD HDD	0 1599	0 1250	0 1078	1 651	17 310	94 117	202 47	189 62	35 249	0 602	0 1088	0 1475	538 8528
	CDD	0	0	0	2	21	97	200	182	36	0	0	0	538
118 ROLLA 3 NW	HDD CDD	1890 0	1524 0	1348	825 1	433 18	195 48	88 90	128 96	368 9	749 0	1263 0	1730 0	10541 262
119 RUGBY	HDD	1846	1444	1227	688	315	127	46	70	287	663	1207	1689	9609
	CDD	0	0	0	3	34	112	158	144	17	0	0	0	468
120 SAN HAVEN	HDD CDD	1935 0	1530 0	1345 0	789 0	398 16	172 51	80 98	131 97	381 9	750 0	1266 0	1765 0	10542 271
121 SHARON	HDD	1873	1475	1243	708	318	117	50	81	272	657	1208	1699	9701
	CDD	0	0	0	3	26	77	145	140	19	0	0	0	410
124 STANLEY 3 NNW	HDD CDD	1840 0	1454 0	1257 0	769 0	398 10	170 67	79 122	116 119	361 17	734 0	1228 0	1680 0	10086 335
125 STEELE 3 N	HDD	1779	1401	1176	679	308	114	26	63	250	632	1163	1617	9208
106 OTDERTO 7 NO	CDD	1706	1421	1217	2	22	99	179	170	29	673	1160	1627	501
126 STREETER 7 NW	HDD CDD	1786 0	1431 0	1217 0	733 0	368 13	142 65	56 154	79 131	296 17	673 0	1168 0	1627 0	9576 380
129 TIOGA 1 E	HDD	1802	1400	1202	728	377	152	72	103	337	703	1203	1640	9719
120 TOWNED 2 NE	CDD	1904	1407	1200	747	16	74 125	147	149	20	702	1227	1709	406
130 TOWNER 2 NE	HDD CDD	1894 0	1497 0	1289 0	747 0	358 19	135 80	50 137	96 141	313 15	703 0	1227 0	1708 0	10017 392
131 TROTTERS 3 SSE	HDD	1597	1241	1064	651	338	133	53	80	281	628	1104	1482	8652
	CDD	0	0	0	0	18	88	187	187	39	0	0	0	519



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

NORTH DAKOTA

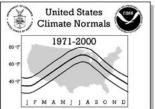
								DEGE	SEE DV.	YS (Tota	1)				
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
132	TURTLE LAKE	HDD	1787	1410	1183	711	339	130	48	77	275	652	1174	1620	9406
133	TUTTLE	CDD HDD	0 1692	0 1330	0 1126	0 645	18 283	85 101	165 31	161 58	24 245	603	0 1095	0 1534	453 8743
		CDD	0	0	0	2	28	105	188	184	26	0	0	0	533
134	UNDERWOOD	HDD CDD	1796 0	1420 0	1194 0	708	328 20	118 87	38 167	77 158	262 30	661 0	1187 0	1638 0	9427 463
135	UPHAM 3 N	HDD	1916	1504	1279	728	335	131	57	92	328	733	1239	1729	10071
136	VALLEY CITY 3 NNW	CDD HDD	0 1840	0 1459	0 1225	720	18 330	78 114	131	123 74	12 285	0 661	0 1172	0 1646	362 9561
127	TIDITIA 2 NID	CDD	1707	0 1411	0	1 707	23	77	143	123	16	0 664	0 1181	1605	383
137	VELVA 3 NE	HDD CDD	1797 0	0	1202 0	707	314 20	114 94	47 173	83 142	288 21	0 0	0	1625 0	9433 451
139	WAHPETON 3 N	HDD CDD	1748 0	1373 0	1122 0	595 3	229 51	56 139	18 238	36 198	189 39	551 0	1085 0	1562 0	8564 668
141	WASHBURN	HDD	1718	1347	1126	658	296	104	30	63	237	607	1119	1559	8864
143	WATFORD CITY	CDD HDD	0 1764	0 1346	0 1160	712	22 356	100 146	186 65	182 76	37 314	0 682	0 1167	0 1583	528 9371
		CDD	0	0	0	0	12	83	177	152	21	0	0	0	445
⊥44	WATFORD CITY 14 S	HDD CDD	1593 0	1217 0	1023 0	609	288 26	109 116	43 222	55 213	238 46	572 0	1070 0	1461 0	8278 625
145	WESTHOPE	HDD CDD	1873 0	1462 0	1236 0	685 1	306 23	119 88	49 137	81 140	284 20	670 0	1213 0	1708 0	9686 409
146	WILDROSE 3 NW	HDD	1827	1435	1224	731	373	150	67	111	340	716	1213	1655	9842
147	WILLISTON SLOULIN AP	CDD HDD*	0 1751	0 1336	0 1109	0 660	14 327	72 103	131 27	133 46	19 274	0 648	0 1167	0 1596	369 9044
		CDD*	0	0	0	1	20	79	176	164	23	0	0	0	463
148	WILLISTON EXP FARM	HDD CDD	1666 0	1270 0	1051 0	608	278 32	99 121	35 224	58 219	234 49	570 0	1098 0	1519 0	8486 648
149	WILLOW CITY	HDD	1953	1549	1324	753	355	140	62	106	347	739	1254	1764	10346
150	WILTON	CDD HDD	0 1767	0 1395	0 1169	703	16 338	70 129	123 42	114 83	10 279	0 655	0 1177	0 1605	333 9342
									<u> </u>						



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

NORTH DAKOTA

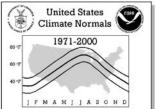
No.	Station Name	e Element	JAN	FEB	MAR	APR	MAY	NOR!	MALS S	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
004	ALEXANDER		24.7	31.3	39.2	51.3	61.1	76.7 63.2	75.1 70.4	76.9	64.9	47.6	39.9 27.8	26.2	76.9
		MEDIAN LOWEST MEAN	9.8	20.5	29.5 19.3	34.6	54.1 49.4	58.6	60.6	69.5 62.4	57.1 50.8	44.4	13.6	16.9 -4.9	42.3 -7.2
		HIGHEST MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1983	1998	1973	1999	1999	1983
		LOWEST MEAN YEAR	1982	1979	1996	1975	1983	1998	1972	1977	1972	1991	1985	1983	1982
		OBS TIME ADJUSTMENT	1.5	1.0	-0.1	-0.7	-0.9	-0.7	-0.8	-1.0	-0.6	-0.8	0.2	1.2	
005	MAX C	DBS TIME ADJUSTMENT HIGHEST MEAN	0.6	0.6	0.5	0.4 52.0	0.2	0.2 76.0	0.1 75.3	0.0 75.7	0.0	0.0	0.0	0.3	76.0
003	ALIMONT	MEDIAN	10.5	20.7	28.4	44.0	56.2	64.3	70.8	69.0	57.9	45.5	28.3	15.3	42.8
		LOWEST MEAN	-4.1	2.7	19.3	35.3	51.4	60.3	63.4	62.8	52.9	40.6	14.9	-1.7	-4.1
		HIGHEST MEAN YEAR	1992	1998	1986	1987	1977	1988	1989	1983	1990	1973	1999	1997	1988
	MTN C	LOWEST MEAN YEAR DBS TIME ADJUSTMENT	1982	1979 -1.5	1996 -1.0	1975 -1.0	1979 -1.0	1985 -0.7	1992	1977 -1.1	1984 -1.2	1976 -1.4	1985 -1.5	1983 -1.6	1982
		OBS TIME ADJUSTMENT	-1.4	-1.6	-1.2	-1.4	-1.2	-1.0	-0.7	-1.4	-1.0	-1.3	-1.4	-1.5	
007	AMIDON	HIGHEST MEAN	29.3	33.7	41.0	50.4	63.1	77.4	75.4	76.7	66.1	50.7	42.1	29.5	77.4
		MEDIAN	16.0	23.1	31.3	44.0	55.3	65.2	71.1	70.5	58.3	46.1	29.9	20.3	44.2
		LOWEST MEAN	1.4	7.2	21.3	35.4	48.6	58.2	62.2 1988	64.1	52.5	41.2	15.0	0.7	0.7
		HIGHEST MEAN YEAR LOWEST MEAN YEAR	1992 1982	1992 1989	1986 1996	1987 1975	1977 1996	1988 1998	1988	1983 1985	1998 1986	1973 1991	1999 1985	1979 1983	1988 1983
	MIN C	OBS TIME ADJUSTMENT	1.6	1.0	-0.1	-0.7	-0.9	-0.7	-0.8	-1.0	-0.6	-0.7	0.3	1.3	1703
	MAX C	OBS TIME ADJUSTMENT	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0	-0.1	0.0	0.4	
008	ASHLEY	HIGHEST MEAN	23.2	29.1	36.7	51.1	63.9	74.9	75.9	75.2	65.0	50.9	39.2	24.7	75.9
		MEDIAN LOWEST MEAN	9.4	16.0 1.0	27.3 19.5	43.1 36.2	56.4 50.8	65.4 60.3	71.7	69.9 63.7	58.5 52.2	45.5 40.3	26.6 16.1	14.3 -1.6	42.6 -3.7
		HIGHEST MEAN YEAR	1990	1987	1973	1977	1977	1988	1975	1983	1978	1975	1999	1999	1975
		LOWEST MEAN YEAR	1982	1979	1996	1975	1996	1985	1992	1992	1993	1976	1985	1983	1982
		OBS TIME ADJUSTMENT	1.5	2.0	1.3	0.0	-0.7	-0.6	-0.5	-0.4	-0.6	0.5	1.1	1.2	
000		OBS TIME ADJUSTMENT	0.3	0.6	0.5	0.5	0.4	0.3	0.1 75.2	0.1 76.6	-0.1	0.0	0.0	0.4	77 1
009	BEACH	HIGHEST MEAN MEDIAN	29.4 15.5	34.1 23.2	31.5	50.7	61.5 54.6	77.1 63.7	69.8	70.2	65.8 57.8	48.5 45.4	40.8	30.9	77.1 43.7
		LOWEST MEAN	-1.8	5.3	20.4	35.9	49.3	58.2	61.4	62.8	53.0	40.5	15.6	2.1	-1.8
		HIGHEST MEAN YEAR	1992	1984	1986	1987	1988	1988	1985	1983	1998	1973	1999	1979	1988
		LOWEST MEAN YEAR	1979	1979	1996	1975	1996	1998	1993	1985	1984	1972	1985	1983	1979
		DBS TIME ADJUSTMENT DBS TIME ADJUSTMENT	-1.6 -1.4	-1.3 -0.8	-0.9 -0.6	-0.9 -0.6	-0.9 -0.6	-0.6 -0.5	-0.7 -0.5	-1.0 -0.8	-1.2 -1.0	-1.2 -0.7	-1.3 -0.9	-1.5 -1.4	
010	BELCOURT K		16.4	23.6	31.5	44.9	59.1	70.6	69.8	67.5	58.7	44.8	32.9	22.2	70.6
		MEDIAN	2.3	8.8	18.9	36.9	50.8	60.2	65.2	64.7	51.4	39.4	22.3	5.3	35.9
		LOWEST MEAN	-13.0	-7.8	11.6	25.8	42.9	54.1	57.1	56.6	47.3	34.1	9.1	-9.0	-13.0
		HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998 1979	2000 1996	1998 1979	1977 1983	1988 1985	1989 1992	1984 1977	1998 1993	1973 1991	1999 1985	1997 1983	1988 1982
	MIN C	OBS TIME ADJUSTMENT	1.5	1.8	2.1	1.5	0.0	-0.1	-0.1	0.8	0.7	1.3	1.0	1.1	1902
	MAX C	OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0	0.1	-0.1	0.3	
012	BEULAH 1 W		24.4	31.5	39.7	53.3	64.3	77.5	75.7	74.1	65.2	49.4	38.1	26.8	77.5
		MEDIAN LOWEST MEAN	9.8	20.1	28.7 19.4	43.5	55.7 49.5	64.4 58.8	70.3	69.8 64.0	57.4 51.7	45.9 41.4	28.6 17.2	16.1 -2.1	42.7 -5.9
		HIGHEST MEAN YEAR			1986			1988		1991					
		LOWEST MEAN YEAR	1982	1979	1996	1979	1983	1985	1993	1977	1984		1996	1983	1982
		OBS TIME ADJUSTMENT	-1.6	-1.5	-1.2	-1.0	-1.0	-0.7	-0.8	-1.1	-1.1	-1.4	-1.5	-1.6	
013	MAX C BISMARCK M	OBS TIME ADJUSTMENT MUNI HIGHEST MEAN	23.6	-1.5 30.4	-0.9 39.5	-1.2 51.2	-1.2 62.2	-1.0 75.7	-0.9 76.3	-1.4 75.3	-1.0 63.5	-1.1 48.8	-1.4 38.6	-1.5 28.2	76.3
013	DIDIMICK IV	MEDIAN	9.0	19.0	28.4	43.1	56.0	64.6	70.8	69.5	57.3	45.2	28.3	15.1	42.5
		LOWEST MEAN	-3.8	-0.1	19.8	35.6	50.3	59.8	64.0	62.5	52.7	40.7	14.3	-0.8	-3.8
		HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1989	1983	1998	2000	1999	1997	1989
	MTN C	LOWEST MEAN YEAR DBS TIME ADJUSTMENT	1982	1979 0.0	1996 0.0	1979	1974 0.0	1982 0.0	1992	1977 0.0	1974	1991	1985 0.0	1983	1982
		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	
015	BOTTINEAU	HIGHEST MEAN	17.7	24.4	34.5	47.7	62.6	73.8	72.0	71.3	60.5	46.4	34.8	22.0	73.8
		MEDIAN	3.7	9.3	22.3	40.0	54.0	62.1	66.7	66.8	54.4	41.3	23.1	7.6	37.9
		LOWEST MEAN HIGHEST MEAN YEAR	-12.5 1990	-5.2 1998	13.2 1973	28.0 1987	45.4 1977	55.5 1988	60.3 1989	57.7 1983	49.1 1998	36.1 1973	10.5 1999	-5.3 1997	-12.5 1988
		LOWEST MEAN YEAR	- 1	1998	1973	1987	1977	1988	1989	1983	1998	1973	1999	1997	1988
	MIN C	OBS TIME ADJUSTMENT	1.6	1.9	1.2	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.4	1.1	1.2	
		OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.3	
016	BOWBELLS	HIGHEST MEAN	20.2	27.6	34.9	51.1	61.1	72.0	73.2	72.8	59.6	46.3	35.1	24.8	73.2
		MEDIAN LOWEST MEAN	5.4	14.4 -5.9	24.2 14.8	40.5	53.3 46.5	62.6 55.5	66.8	66.4 58.6	53.9 48.0	41.9 37.2	25.0 10.8	10.4 -5.0	38.8 -11.4
		HIGHEST MEAN YEAR	1990	1984	1986	1987	1977	1988	1975	1983	1998	1973	1999	1997	1975
		LOWEST MEAN YEAR	1982	1979	1996	1979	1979	1985	1993	1985	1984	1991	1985	1983	1982
		OBS TIME ADJUSTMENT	1.3	1.8	2.0	1.5	0.0	-0.1	-0.2	0.9	0.7	1.2	1.1	1.0	
	MAX C	OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.2	



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

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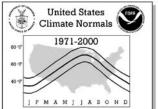
	F M A M]] A S O N														
No. S	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	TATISTI AUG	SEP	ОСТ	NOV		ANNUAL
017 В	BOWMAN	HIGHEST MEAN MEDIAN	28.6 15.0	31.8 22.3	38.5 29.9	48.4	60.5 52.9	74.5 62.8	73.3	75.0 68.5	64.4 56.2	48.1	40.4	28.8	75.0 42.8
		LOWEST MEAN	-0.6	5.2	29.9	33.9	48.0	57.8	61.0	62.3	51.2	39.9	13.8	-0.2	-0.6
	HIC	GHEST MEAN YEAR	1992	1998	1986	1977	1977	1988	1989	1983	1998	1973	1999	1999	1983
		OWEST MEAN YEAR	1979	1979	1996	1975	1996	1998	1993	1974	1984	1972	1985	1983	1979
		TIME ADJUSTMENT	1.6	1.0	-0.1	-0.7	-0.9	-0.6	-0.6	-1.0	-0.6	-0.7	0.3	1.2	
018 B	MAX OBS 1 BREIEN	TIME ADJUSTMENT HIGHEST MEAN	0.6	0.5	0.4	0.4 52.7	0.2	0.2 77.4	77.2	0.0 75.4	-0.1 64.2	-0.1 49.1	0.0 37.9	0.4	77.4
010 D	JULI I EIV	MEDIAN	10.1	20.3	28.8	44.0	55.9	65.1	71.3	69.8	58.1	45.3	29.0	15.7	43.2
		LOWEST MEAN	-3.6	2.7	21.1	35.9	52.0	60.2	63.0	62.9	53.8	38.9	15.1	-3.6	-3.6
		SHEST MEAN YEAR	1987	1998	1986	1987	1977	1988	1989	1983	1978	1997	1999	1997	1988
		OWEST MEAN YEAR	1978 -1.6	1979 -1.5	1996 -1.0	1975 -1.0	1983 -1.0	1993 -0.7	1992 -0.6	1977 -1.1	1993 -1.1	1976	1985 -1.5	1983 -1.6	1978
		TIME ADJUSTMENT	-1.6	-1.5	-1.0	-1.0	-1.0	-0.7	-0.8	-1.1	-1.1	-1.4	-1.5	-1.5	
019 B	BUTTE 5 SE	HIGHEST MEAN	21.1	26.8	37.6	52.3	64.1	76.4	76.6	74.9	64.1	48.5	38.5	24.9	76.6
		MEDIAN	6.3	14.4	24.9	42.1	56.0	64.7	70.3	69.1	57.2	44.6	25.1	11.1	40.9
		LOWEST MEAN	-10.2	-3.6	17.9	31.5	48.2	59.9	63.2	62.1	53.0	39.4	13.0	-1.1	-10.2
		GHEST MEAN YEAR OWEST MEAN YEAR	1990 1982	1984 1979	1986 1996	1987 1979	1977 1979	1988 1993	1989 1993	1984 1977	1998 1984	1973 1972	1999 1985	1999 1983	1989 1982
		TIME ADJUSTMENT	0.9	1.1	-0.2	-0.7	-1.0	-0.7	-0.8	-1.0	-1.1	-0.8	0.2	0.6	1 1 7 0 2
		TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.2	0.0	0.0	-0.2	0.0	0.0	0.3	
021 C	CARRINGTON	HIGHEST MEAN	23.0	26.0	35.1	49.5	63.9	73.1	74.1	72.8	61.5	48.5	36.2	24.1	74.1
		MEDIAN	6.8	12.8	24.2	40.6	54.8	63.7	68.8	67.0	55.8	43.4	25.4	10.8	40.0
	нто	LOWEST MEAN SHEST MEAN YEAR	-8.2 1990	-2.5 1998	15.9 1973	31.2 1987	48.0 1977	57.8 1988	61.9 1988	60.9 1983	50.9 1978	39.1 1973	13.2 1999	-2.8 1999	-8.2 1988
		OWEST MEAN YEAR	1982	1979	1996	1979	1979	1985	1992	1977	1984	1991	1996	1983	1982
	MIN OBS 7	TIME ADJUSTMENT	1.5	2.0	2.1	1.5	0.0	-0.1	-0.1	0.8	0.7	1.2	1.0	1.1	
		TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.0	0.0	0.0	-0.1	0.3	
022 C.	CARRINGTON 4	HIGHEST MEAN	20.4	26.9	36.2	51.5	65.2	73.5	74.3	74.7	63.6	49.4	37.5	24.3	74.7
		MEDIAN LOWEST MEAN	-9.5	13.2 -3.6	24.9 17.3	31.0	56.2 48.8	64.4 58.8	69.3	67.9 61.2	57.2 52.3	38.6	25.9 12.9	10.8	40.7
	HIC	SHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
	LO	OWEST MEAN YEAR	1982	1979	1975	1979	1979	1982	1992	1974	1984	1991	1996	1983	1982
		TIME ADJUSTMENT	1.5	2.0	2.1	1.5	0.0	-0.1	-0.1	0.8	0.7	1.2	1.0	1.1	
U33 G	MAX OBS 1	TIME ADJUSTMENT HIGHEST MEAN	0.5	0.6	0.6 35.6	0.6	0.5	0.3 74.4	74.3	0.1 73.2	0.0	0.0 48.1	-0.1 40.1	0.3	74.4
023 C.	ANDON	MEDIAN	10.6	19.0	26.9	41.6	53.8	62.1	69.2	68.1	56.3	44.2	27.8	16.0	41.3
		LOWEST MEAN	-4.3	0.1	17.9	31.7	47.1	56.4	61.0	61.0	50.8	37.8	15.4	-1.9	-4.3
		GHEST MEAN YEAR	1992	1998	1986	1987	1977	1988	1989	1983	1998	2000	1999	1997	1988
		OWEST MEAN YEAR	1979	1979 1.9	1996 2.0	1975 1.4	1979 0.0	1985 0.0	1992 -0.1	1977 0.9	1984	1972	1985 1.1	1983 1.2	1979
		TIME ADJUSTMENT	0.5	0.6	0.5	0.5	0.5	0.3	0.2	0.9	-0.1	0.0	0.0	0.3	
024 C	CASSELTON AGR	HIGHEST MEAN	22.0	26.4	35.9	49.3	65.0	73.3	75.0	74.8	63.2	50.2	37.1	23.9	75.0
		MEDIAN	5.8	11.8	26.7	42.3	56.8	65.1	70.3	68.9	57.9	45.0	26.1	11.3	41.0
	117	LOWEST MEAN	-8.5	-3.8	17.6	33.7	49.3	58.5 1988	62.8	62.5	53.3	40.9	15.2	-3.0	-8.5 1988
		GHEST MEAN YEAR OWEST MEAN YEAR			2000 1975	1987	1977	1988	1988		1978	1973	1999 1985		1988
		TIME ADJUSTMENT	1.6	2.0	1.4	0.0	-0.8	-0.6	-0.5		-0.6	0.4	1.0	1.1	1702
		TIME ADJUSTMENT	0.6	0.6	0.6	0.6	0.4	0.3	0.1	0.0	0.0	0.1	0.0	0.3	
025 C	CAVALIER 7 NW	HIGHEST MEAN	14.9	23.1	32.5	49.4	66.3	71.3	72.4	71.9	60.4	48.4	35.7	24.0	72.4
		MEDIAN LOWEST MEAN	2.7	8.0 -6.6	21.8 13.0	39.5	54.1 46.5	63.4 56.4	67.0	64.7 59.7	54.9 50.6	42.1 36.5	24.0 11.9	8.2 -4.8	37.7
	HIC	SHEST MEAN YEAR	1990	1984	1973	1977	1977	1988	1989	1983	1976	1973	1981	1997	1989
		OWEST MEAN YEAR	1982	1979	1996	1979	1979	1985	1992	1977	1985	1991	1996	2000	1982
		TIME ADJUSTMENT	1.5	1.9	2.1	1.5	0.0	-0.6	-0.2	-0.4	0.7	1.3	0.9	1.0	
026 0	MAX OBS T	TIME ADJUSTMENT HIGHEST MEAN	0.5	0.6	0.7	0.6	0.5	0.3 73.7	73.5	0.1 74.7	0.0	0.0 47.2	-0.1 36.8	0.2 26.9	74.7
020 C	TO P MILVIES	MEDIAN	10.1	17.8	27.3	41.0	54.0	62.5	68.5	66.9	55.8	44.6	27.0	13.5	40.8
		LOWEST MEAN	-6.0	0.2	15.5	32.0	47.6	58.0	61.8	58.7	51.5	39.5	15.1	0.5	-6.0
		GHEST MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1991	1990	1986	1999	1991	1991
		OWEST MEAN YEAR	1982	1979	1996	1979	1979	1985	1993		1974	1976	1985	1983	1982
		FIME ADJUSTMENT FIME ADJUSTMENT	1.4	1.8	1.9 0.6	2.3	1.5 0.5	1.1	1.0	1.7	1.5	1.2	0.9 -0.1	1.0	
028 C	COLGATE	HIGHEST MEAN	19.9	22.2	34.7	48.4	65.1	73.6	74.5	74.1	62.0	48.4	34.4	22.2	74.5
		MEDIAN	4.3	9.2	23.5	41.1	56.0	64.4	69.2	68.6	56.8	42.8	23.3	8.3	39.3
		LOWEST MEAN	-12.1	-5.9	15.0	32.3	49.0	57.6	62.1	61.6	51.9	38.8	12.1	-5.2	-12.1
		GHEST MEAN YEAR	1990	1998	2000	1977	1977	1988	1988	1983	1998	1973	1999	1997	1988
		OWEST MEAN YEAR	1982	1979 2.0	$\frac{1996}{1.4}$	1979	1979 -0.8	1982 -0.6	1992 -0.6	1977 -0.9	1985 -0.6	1976	1985 1.0	1983 1.1	1982
		TIME ADJUSTMENT	0.6	0.6	0.6	0.6	0.4	0.3	0.1	0.0	0.0	1	-0.1	0.3	
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

NORTH DAKOTA

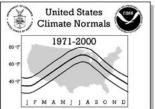
No. Station Name	Element	JAN	FEB	MAR	APR	MAY	NORI JUN	IALS S	TATISTI AUG	CS SEP	OCT	NOV	DEC	ANNUAL
	GHEST MEAN	20.4	24.9	34.7	49.8	65.0	71.9	73.4	74.3	63.1	49.0	35.5	22.1	74.3
	MEDIAN	4.8	10.9	24.1	41.2	55.4	64.7	69.3	67.6	56.3	43.5	24.2	9.7	39.7
	OWEST MEAN MEAN YEAR	-9.8	-3.1	15.8	32.3	48.1	58.8	61.4	60.7	52.2	39.5	13.0	-1.9	-9.8
	MEAN YEAR	1990 1982	1998 1979	1973 1996	1987 1979	1977 1979	1988 1985	1989 1992	1983 1977	1978 1985	1973 1991	1981 1985	1997 1983	1983 1982
MIN OBS TIME		-0.7	-0.7	-0.5	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.5	-0.6	-0.6	
MAX OBS TIME 031 CROSBY HI		-0.3 21.8	-0.2 29.1	-0.1 39.3	-0.1 52.6	-0.1 63.9	-0.1 76.6	74.5	-0.1 75.1	-0.1 61.2	-0.2 47.7	-0.3 36.8	-0.3 26.0	76.6
USI CROSBI HI	GHEST MEAN MEDIAN	7.6	16.7	27.6	43.0	56.0	64.8	69.3	67.7	56.3	44.1	26.7	12.5	41.2
	OWEST MEAN	-9.5	-0.1	18.1	33.7	49.7	58.8	62.1	61.9	50.8	40.3	12.9	-3.4	-9.5
	MEAN YEAR MEAN YEAR	1986 1982	1984 1979	1986 1996	1987 1975	1977 1974	1988 1993	1989 1993	1983 1974	1998 1984	1974 1991	1999 1985	1997 1983	1988 1982
MIN OBS TIME		-1.6	-1.2	-1.0	-0.9	-0.9	-0.8	-0.7	-1.0	-1.0	-1.2	-1.3	-1.5	1902
MAX OBS TIME		-1.4	-0.7	-0.5	-0.6	-0.6	-0.5	-0.5	-0.8	-0.6	-0.7	-0.9	-1.4	
032 DEVILS LAKE K HI	GHEST MEAN MEDIAN	21.5 7.0	26.0 12.0	35.4 23.6	51.1	65.5 56.0	73.8 64.8	74.2	73.5 68.1	62.6 57.1	49.2	37.3 25.4	25.1 10.4	74.2
L	OWEST MEAN	-9.6	-3.1	16.4	31.8	48.5	59.1	62.6	61.7	51.7	39.4	13.8	-2.6	-9.6
	MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
LOWEST MIN OBS TIME	MEAN YEAR	1982	1979	1996	1979	1979	1985	1992	1977	1984	1976	1996	1983	1982
MAX OBS TIME		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
033 DICKINSON AP HI	GHEST MEAN	27.7	34.3	39.0	50.0	60.9	75.9	74.6	77.4	64.2	48.7	40.9	29.6	77.4
T	MEDIAN OWEST MEAN	14.0 -0.2	22.6 6.1	30.6 19.0	42.3	54.4 48.5	63.0 58.1	70.0	69.3 61.9	57.5 51.8	45.2	29.2 16.9	19.0	42.8
	MEAN YEAR	1992	1984	19.0	1980	1977	1988	1989	1983	1998	1983	1999	1979	1983
LOWEST	MEAN YEAR	1982	1989	1996	1975	1974	1993	1993	1977	1986	1972	1985	1983	1982
MIN OBS TIME MAX OBS TIME		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	GHEST MEAN	25.4	30.2	38.5	48.0	61.7	75.0	74.0	73.9	63.0	48.3	38.7	26.2	75.0
	MEDIAN	12.1	20.5	28.2	41.4	53.2	62.3	68.5	67.6	54.8	43.7	27.9	17.3	41.6
	OWEST MEAN MEAN YEAR	-2.6 1992	3.6 1998	20.1 1986	33.7 1987	48.3 1977	56.4 1988	1989	60.9 1983	49.6 1998	39.1 1973	14.5 1999	-2.8 1999	-2.8 1988
	MEAN YEAR	1982	1979	1996	1975	1983	1985	1992	1985	1984	1973	1985	1983	1983
MIN OBS TIME		1.3	1.9	2.0	1.4	0.0	-0.1	-0.1	0.9	0.7	1.3	1.1	1.0	
MAX OBS TIME 035 DICKINSON RAN HI	ADJUSTMENT GHEST MEAN	0.5	0.6	0.5 39.6	0.5 49.2	0.5	0.3 76.1	73.8	0.1 74.4	0.0	0.0 47.9	0.0	0.3	76.1
035 DICKINSON KAN III	MEDIAN	11.8	20.7	27.8	42.1	54.5	64.0	70.0	69.1	56.4	44.9	27.8	16.1	42.1
	OWEST MEAN	-4.2	2.0	19.2	33.5	49.0	57.6	61.9	62.5	51.3	41.1	14.6	-2.0	-4.2
	MEAN YEAR MEAN YEAR	1990 1982	1984 1979	1986 1996	1987 1975	1977 1996	1988 1985	1989 1993	1983 1977	1998 1985	1973 1991	1999 1985	1999 1983	1988 1982
MIN OBS TIME		1.5	1.9	1.1	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.4	1.2	1.2	1702
MAX OBS TIME		0.5	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.1	0.0	0.3	
036 DRAKE 9 NE HI	GHEST MEAN MEDIAN	19.7 4.9	26.4 12.0	35.3 23.2	51.1	65.6 55.4	74.6 64.5	74.4	73.3	62.5 56.0	47.3	36.5 24.4	24.9	74.6
L	OWEST MEAN	-11.2	-4.3	14.5	29.7	48.8	58.1	61.1	61.1	50.8	37.6	10.9	-5.1	-11.2
	MEAN YEAR			1973			1988				1973		1997	
LOWEST MIN OBS TIME	MEAN YEAR	1982 1.6	1979 2.0	1996 1.2	1979	1979 -0.7	1993 -0.6	1993	1977 -0.4	1984 -0.6	1972	1985 1.1	1983 1.2	1982
MAX OBS TIME		0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.3	
038 DUNN CENTER 2 HI	GHEST MEAN	26.4	32.0	40.4	52.2	63.0	77.4	76.5	76.0	65.5	49.9	40.4	29.6	77.4
T.	MEDIAN OWEST MEAN	11.8 -4.6	22.2	29.4 20.9	43.9	56.1 49.6	64.5 58.5	70.4	71.2 64.2	58.0 52.9	46.0 41.6	28.9 17.4	16.9 -0.7	43.4
	MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1983	1998	1973	1999	1999	1988
	MEAN YEAR	1982	1979	1996	1975	1996	1985	1993	1977	1984	1972	1985	1983	1982
MIN OBS TIME MAX OBS TIME		-1.9 -2.7	-1.6 -2.3	-1.3 -1.5	-1.0 -2.1	-1.0 -1.9	-0.7 -1.6	-0.8 -1.5	-1.2 -2.1	-1.3 -1.7	-1.5 -1.8	-1.6 -2.2	-1.8 -2.7	
	GHEST MEAN	24.2	27.8	35.2	49.9	64.1	73.7	74.2	74.8	63.4	49.6	38.4	25.1	74.8
	MEDIAN	9.4	15.1	26.7	42.2	55.7	64.3	70.2	68.5	57.6	45.1	26.1	13.0	41.7
	OWEST MEAN MEAN YEAR	-5.6 1990	-0.1 1987	17.5 2000	32.5 1987	48.9 1977	58.8 1988	61.5 1988	62.6 1983	52.2 1978	41.3 1973	15.8 1999	-1.3 1999	-5.6 1983
LOWEST	MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1977	1993	1976	1985	1983	1982
MIN OBS TIME		1.6	2.0	1.3	0.0	-0.7	-0.6	-0.5	-0.4	-0.6	0.5	1.1	1.2	
MAX OBS TIME 040 EDMORE 1 NW HI	ADJUSTMENT GHEST MEAN	0.6 14.6	0.6	0.5	0.6 48.4	0.4	0.3 71.9	72.3	0.1 71.3	-0.1 60.0	0.0 46.6	0.0	0.4	72.3
	MEDIAN	0.7	6.6	20.1	39.3	53.7	62.2	66.8	65.9	54.2	41.3	21.7	5.3	36.9
		-14.5	-7.9	12.3	28.8	46.1	56.1	59.1	58.7	49.9	36.0	8.6	-6.2	-14.5
	MEAN YEAR MEAN YEAR	1990 1982	1998 1979	2000 1996	1987 1979	1977 1979	1988 1985	1989 1992	1983 1977	1998 1985	1973 1976	1999 1996	1997 1983	1989 1982
MIN OBS TIME		0.9	1.1	-0.2	-0.6	-1.0	-0.7	-0.7	-1.1	-1.1	-0.8	0.2	0.5	1,02
MAX OBS TIME	ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.2	0.0	-0.2	-0.2	0.0	0.0	0.3	<u> </u>



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

NORTH DAKOTA

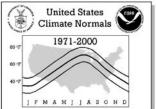
] F M A M]]							NODA	4A1 C C	TATIOTI	CC				
No. Station Na	me Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	TATISTI AUG	SEP	ОСТ	NOV	DEC	ANNUAL
041 EDMUNDS	ARROW HIGHEST MEAN MEDIAN	23.9	27.9 16.0	36.4 26.6	50.9	64.9 56.9	73.9 64.7	74.1	73.8 68.7	64.4 57.9	50.9	39.4 26.8	26.7 12.8	74.1 41.6
	LOWEST MEAN	-9.8	-1.5	20.4	33.7	47.7	58.6	61.5	61.7	52.9	40.6	14.6	-1.0	-9.8
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1988	1983	1998	1973	1999	1997	1988
	LOWEST MEAN YEAR	1982	1979	1979	1979	1979	1982	1992	1977	1984	1991	1985	1983	1982
	OBS TIME ADJUSTMENT OBS TIME ADJUSTMENT	-1.9 -1.6	-1.6 -1.3	-1.1 -1.4	-1.0 -1.9	-1.1 -2.6	-0.7 -1.4	-0.8 -1.8	-1.2 -1.8	-1.4 -2.7	-1.8 -2.6	-1.7 -1.5	-1.8 -1.6	
043 ELLENDAL		24.5	30.7	37.4	53.7	65.2	75.0	77.1	78.2	66.2	50.8	38.8	26.1	78.2
	MEDIAN	11.7	17.3	30.2	44.9	57.7	66.4	72.3	71.4	60.0	47.1	28.0	14.5	43.8
	LOWEST MEAN	-3.3	1.7	21.3	35.3	51.8	61.9	64.4	65.3	55.5	40.7	15.2	0.1	-3.3
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1987 1979	1973 1996	1987 1975	1977 1979	1988 1985	1988 1992	1983 1977	1998 1985	1973 1976	1999 1985	1979 1983	1983 1982
MIN	OBS TIME ADJUSTMENT	-1.4	-1.5	-1.1	-1.0	-1.0	-0.7	-0.6	-1.0	-1.2	-1.4	-1.4	-1.6	1702
	OBS TIME ADJUSTMENT	-1.3	-1.5	-1.3	-1.4	-1.3	-1.0	-0.9	-1.3	-1.4	-1.3	-1.4	-1.4	
044 ENDERLIN	2 W HIGHEST MEAN MEDIAN	22.6	28.8 14.0	36.7 26.9	51.6	65.6 57.8	74.4 65.7	76.0	75.4 69.3	63.7 58.1	50.9	39.1 26.4	26.2 12.9	76.0 41.7
	LOWEST MEAN	-6.5	-2.3	17.1	32.6	49.1	60.7	63.9	62.1	52.4	40.1	15.7	0.5	-6.5
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1983	1983	1998	1973	1999	1999	1983
	LOWEST MEAN YEAR	1979	1979	1975	1975	1979	1982	1992	1977	1974	1976	1985	1983	1979
	OBS TIME ADJUSTMENT OBS TIME ADJUSTMENT	-1.6 -1.4	-1.5 -1.5	-1.1 -1.3	-1.0 -1.4	-1.0 -1.3	-0.7 -1.0	-0.6 -0.9	-0.9 -0.7	-1.2 -1.0	-1.4	-1.4 -1.3	-1.5 -1.4	
046 FAIRFIEL		23.9	28.9	37.7	49.0	60.2	73.5	72.5	73.4	64.0	47.7	39.7	26.3	73.5
	MEDIAN	10.9	19.4	26.1	41.4	53.5	62.0	68.6	67.8	55.5	43.4	26.6	15.5	40.9
	LOWEST MEAN	-6.1	0.9	16.8	31.6	47.2	57.7	60.3	61.0	50.1	39.1	12.1	-4.5	-6.1
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1992 1982	1991 1989	1986 1996	1987 1975	1977 1996	1988 1998	1988 1993	1983 1977	1998 1984	1974 1991	1999 1985	1997 1983	1988 1982
MIN	OBS TIME ADJUSTMENT	1.5	1.9	1.1	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.4	1.1	1.2	1702
MAX	OBS TIME ADJUSTMENT	0.5	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.1	0.0	0.3	
047 FARGO HE		21.3	28.0	36.6	51.3	66.5	73.6	75.6	73.3	63.9	50.8	37.1	23.5	75.6
	MEDIAN LOWEST MEAN	6.8	12.4 -1.4	28.3 17.4	43.3	57.4 50.4	65.8 59.0	70.6	68.9 62.3	57.9 53.7	45.2	26.4 15.2	12.1	41.5
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1989	1976	1998	1973	1999	1997	1989
	LOWEST MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1977	1985	1976	1985	1983	1982
	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	
048 FESSENDE	OBS TIME ADJUSTMENT N HIGHEST MEAN	20.2	25.8	34.6	51.4	64.7	74.6	75.0	75.0	63.2	48.3	34.5	21.8	75.0
	MEDIAN	4.8	10.9	23.2	41.2	56.0	64.9	69.3	67.7	57.3	43.2	24.3	8.7	40.5
	LOWEST MEAN	-9.9	-3.8	15.7	31.9	49.2	58.8	62.1	61.9	52.2	38.3	13.4	-4.7	-9.9
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998 1979	1973 1996	1987 1979	1977 1979	1988 1993	1975 1992	1983 1977	1978 1984	1973 1976	1999 1985	1997 1983	1975 1982
MIN	OBS TIME ADJUSTMENT	1.6	2.1	1.2	0.0	-0.7	-0.6	-0.6	-0.4	-0.5	0.4	1.1	1.2	1902
MAX	OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.3	
050 FORMAN 5		22.4	28.4	37.0	50.6	65.5	75.5	75.9	75.6	64.3	51.8	38.8	24.4	75.9
	MEDIAN LOWEST MEAN	7.9	13.6	28.1 18.7	43.4	57.0 50.1	65.2 60.2	70.9	69.6 63.7	58.2 53.1	45.1	27.3 15.9	12.9 -1.9	41.9
	HIGHEST MEAN YEAR			2000							1973			1988
	LOWEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1977	1993	1976	1985	1983	1982
	OBS TIME ADJUSTMENT	1.5	2.0	1.3	0.0	-0.7	-0.6	-0.5	-0.9	-0.6	0.5	1.0	1.2	
051 FORTUNA	OBS TIME ADJUSTMENT WHIGHEST MEAN	20.3	0.6	0.6 36.5	0.6	0.4	0.3 74.0	0.1 72.6	0.0 73.5	-0.1 60.6	0.0	0.0	0.3	74.0
	MEDIAN	5.1	13.5	24.1	40.1	53.2	62.4	67.2	65.7	53.6	41.2	24.7	11.3	38.7
	LOWEST MEAN	-12.7	-3.3	15.4	30.0	46.5	56.6	59.8	59.2	46.8	37.5	10.2	-6.6	-12.7
1	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1998 1979	1986 1996	1980 1979	1977 1979	1988 1985	1989 1992	1983 1977	1998 1984	1973 1991	1999 1985	1997 1983	1988 1982
MIN	OBS TIME ADJUSTMENT	1.6	0.8	-0.1	-0.6	-0.9	-0.8	-0.8	-1.0	-0.6	-0.8	0.2	1.2	1207
MAX	OBS TIME ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	
052 FORT YAT		26.0	31.8	38.1	53.6	63.6	78.6	77.8	77.5	65.8	50.8	38.3	29.2	78.6
	MEDIAN LOWEST MEAN	13.4	21.8	29.3 22.2	44.5 34.8	56.6 51.9	66.2 61.6	72.8	71.0 64.3	59.6 55.6	47.6	30.1 17.3	18.3	44.4
	HIGHEST MEAN YEAR	1990	1984	1986	1987	1977	1988	1989	1983	1978	2000	1999	1997	1988
	LOWEST MEAN YEAR	1978	1979	1996	1975	1979	1998	1992	1974	1999	1991	1985	1983	1978
	OBS TIME ADJUSTMENT	-0.8	-1.0	-0.7	-0.7	-0.6	-0.5	-0.4	-0.7	-0.6	-0.8	-0.9	-0.9	
MAX 053 FOXHOLM	OBS TIME ADJUSTMENT N HIGHEST MEAN	-0.3 20.6	-0.4 25.9	-0.2 36.5	-0.2 51.0	-0.2 63.1	-0.1 75.2	-0.1 73.9	-0.3 72.3	-0.3 61.9	-0.4 48.2	-0.4 36.4	-0.5 25.4	75.2
JJJ FORMODIN	MEDIAN	6.3	14.9	25.1	41.5	54.8	63.6	68.6	67.7	55.4	43.4	25.1	10.6	39.9
	LOWEST MEAN	-12.8	-5.6	17.3	27.2	45.4	57.6	61.3	59.3	49.9	38.7	9.7	-4.1	-12.8
	HIGHEST MEAN YEAR	1986	1998	1986	1987	1977	1988	1989	1983	1998	1994	1999	1987	1988
MTN	LOWEST MEAN YEAR OBS TIME ADJUSTMENT	1982	1979 1.9	1996 2.0	1979	1979 0.0	1985 -0.1	1993	1977 0.9	1984 0.7	1972	1985 1.1	1983 1.0	1982
	OBS TIME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.9	0.0	0.0	0.0	0.2	
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

NORTH DAKOTA

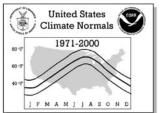
									TATISTI					
No. Station Name		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
054 FULLERTON	1 E HIGHEST MEAN MEDIAN	23.8	30.1 15.8	37.7 29.4	53.8	64.9 57.3	75.1 66.3	77.3	77.4 69.5	64.0 58.9	51.3 45.7	38.3 27.2	25.4 13.7	77.4 42.7
	LOWEST MEAN	-6.6	0.9	19.3	35.6	52.1	59.5	63.5	62.6	54.3	42.5	15.9	-0.8	-6.6
	HIGHEST MEAN YEAR	1990	1987	1973	1977	1977	1988	1974	1983	1978	1973	1999	1979	1983
MIN	LOWEST MEAN YEAR OBS TIME ADJUSTMENT	1982	1979 -1.5	1996 -1.1	1975	1979 -1.0	1982 -0.7	1992	1977 -1.0	1993 -1.2	1976 -1.4	1985 -1.4	1983 -1.5	1982
	OBS TIME ADJUSTMENT	-1.4	-1.5	-1.3	-1.4	-1.3	-1.0	-0.9	-1.3	-1.4	-1.3	-1.4	-1.4	
055 GACKLE	HIGHEST MEAN	23.0	27.1	35.8	52.2	64.0	75.1	76.0	77.1	64.8	49.6	39.1	24.4	77.1
	MEDIAN	9.0	15.2	26.5	42.8	56.0	65.5	71.3	69.5	58.3	45.5	26.3	12.8	42.1
	LOWEST MEAN HIGHEST MEAN YEAR	-6.0 1990	0.6 1998	18.3 1986	32.9 1987	49.8 1977	59.9 1988	62.7 1974	62.5 1983	53.2 1998	40.8 1973	15.6 1999	-2.0 1999	-6.0 1983
	LOWEST MEAN YEAR	1982	1979	1996	1975	1979	1993	1992	1977	1985	1976	1985	1983	1982
	OBS TIME ADJUSTMENT	-1.6	-1.5	-1.1	-1.0	-1.0	-0.7	-0.6	-1.0	-1.2	-1.4	-1.4	-1.6	
MAX 0	OBS TIME ADJUSTMENT 1 NN HIGHEST MEAN	-1.4 23.3	-1.6 28.7	-1.3 36.4	-1.4 50.0	-1.2 63.7	-1.0	-0.9 73.6	-1.3 75.4	-1.0 62.1	-1.3 48.6	-1.4 37.7	-1.5 27.5	75.4
USU GARRISON .	MEDIAN	7.5	15.2	26.6	41.3	54.3	63.1	68.7	67.8	56.0	43.5	26.9	13.8	40.6
	LOWEST MEAN	-10.0	-3.5	16.4	32.5	48.6	57.6	61.3	62.0	50.2	38.6	14.2	-4.6	-10.0
	HIGHEST MEAN YEAR	1990	1998	1986	1977	1977	1988	1989	1983	1998	1973	1999	1997	1983
MTN (LOWEST MEAN YEAR OBS TIME ADJUSTMENT	1982	1979 2.0	1996 1.1	1979	1979 -0.7	1985 -0.6	1993	1985 -0.4	1984 -0.6	1972	1985 1.2	1983	1982
	OBS TIME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.1	0.0	0.4	
058 GRAFTON	HIGHEST MEAN	18.8	27.6	36.6	52.4	67.6	75.2	75.7	76.6	64.5	50.9	37.4	26.3	76.6
	MEDIAN	5.6	12.0 -3.6	26.1 15.4	43.2	58.2 50.2	67.1 60.0	71.3	70.0 63.8	58.5 53.8	45.3 39.2	26.3 13.4	10.5	41.3 -8.5
	LOWEST MEAN HIGHEST MEAN YEAR	-8.5 1990	-3.6 1998	2000	33.4 1987	1977	1988	63.8	1983	53.8 1978	1973	13.4	-1.1 1997	-8.5 1983
	LOWEST MEAN YEAR	1982	1979	1996	1979	1979	1982	1992	1977	1985	1991	1985	1983	1982
	OBS TIME ADJUSTMENT	-1.5	-1.4	-1.1	-0.9	-0.9	-0.6	-0.6	-0.8	-1.0	-1.2	-1.2	-1.3	
MAX 0	OBS TIME ADJUSTMENT KS I HIGHEST MEAN	-0.9 18.9	-0.9 25.7	-0.5 35.7	-0.6 50.7	-0.6 67.4	-0.5 72.0	-0.5 74.5	-0.4 73.6	-0.6 62.3	-0.7 50.1	-0.8 36.4	-1.0 24.6	74.5
059 GRAND FOR	MEDIAN	6.1	12.7	26.3	42.1	56.1	65.2	69.4	67.5	56.9	44.4	25.7	11.6	40.7
	LOWEST MEAN	-7.6	-3.8	15.9	33.4	48.6	58.6	62.7	61.4	52.0	39.2	12.0	-0.4	-7.6
	HIGHEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1989	1983	1997	1973	1981	1997	1989
MTN (LOWEST MEAN YEAR OBS TIME ADJUSTMENT	1979	1979	1996	1979	1979 0.0	1982	1992	1977	1974	1991	1985	2000	1979
	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	
060 GRAND FOR		19.2	25.0	35.3	52.1	66.2	73.7	75.4	73.8	62.1	50.2	36.4	22.6	75.4
	MEDIAN LOWEST MEAN	5.6	11.2 -4.3	26.1 17.5	41.5	56.7 47.7	65.4 59.0	69.7	68.0 60.1	57.0 51.9	44.7 38.4	25.1 14.5	11.2 -0.7	40.1 -8.0
	HIGHEST MEAN YEAR	1990	1987	1973	1987	1977	1988	1989	1983	1978	1973	1981	1997	1989
	LOWEST MEAN YEAR	1982	1979	1975	1979	1979	1982	1992	1977	1993	1991	1985	1983	1982
	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	
061 GRANVILLE	OBS TIME ADJUSTMENT HIGHEST MEAN	0.0	0.0	0.0	0.0	0.0	0.0 76.3	0.0 74.8	0.0 74.3	0.0	0.0	0.0	0.0	76.3
001 01411111111	MEDIAN	8.1	14.4	27.5	43.1	55.5	64.7	69.6	69.4	57.4	44.7	28.4	13.1	41.3
	LOWEST MEAN	-9.0	1.6	17.9	32.5	47.2	57.9	63.0	59.9	50.1	37.0	12.0	-1.6	-9.0
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1990 1982	1987 1989	2000 1996	1987	1977 1979	1988 1985	1989 1992	1983 1980			1999 1996		1988 1982
MIN	OBS TIME ADJUSTMENT	-1.8	-1.6	-1.2	-1.0	-1.0	-0.7	-0.8	-1.2	-1.3	-1.5		-1.7	1902
	OBS TIME ADJUSTMENT	-2.2	-2.3	-1.5	-2.1	-1.9	-1.6	-1.5	-2.1	-1.7	-1.8	-2.2	-2.2	
062 GRASSY BU		25.6	31.3	39.5	50.8	61.2	75.7	74.2	74.4	63.8	47.4	40.3	27.0	75.7
	MEDIAN LOWEST MEAN	11.6	22.1 3.5	29.0 19.2	42.7 33.6	55.0 48.9	62.3 57.5	68.8	68.8 60.8	56.4 51.4	44.8	28.0 14.6	16.4 -2.5	42.2 -3.3
	HIGHEST MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1983	1998	1973	1999	1999	1988
	LOWEST MEAN YEAR	1982	1979	1996	1975	1996	1985	1993	1977	1984	1972	1985	1983	1982
	OBS TIME ADJUSTMENT OBS TIME ADJUSTMENT	-1.7 -2.1	-1.4 -1.5	-1.1 -0.9	-1.0 -1.2	-0.9 -1.2	-0.7 -1.0	-0.8 -0.9	-1.1 -1.4	-1.2 -1.0	-1.4 -1.1	-1.5 -1.4	-1.7 -2.1	
063 GRENORA	HIGHEST MEAN	22.9	28.0	36.2	50.5	62.1	76.3	74.8	74.7	63.3	49.0	36.8	23.6	76.3
	MEDIAN	6.2	17.8	27.5	42.1	55.9	63.6	69.0	67.8	55.3	43.6	25.6	11.3	40.7
	LOWEST MEAN HIGHEST MEAN YEAR	-9.3 1990	-0.2 1984	18.1	33.2	48.8	57.9	61.5 1989	60.8	48.1	39.5 1974	9.3 1999	-6.6	-9.3
	LOWEST MEAN YEAR	1	1984	1986 1996	1987 1975	1977 1979	1988 1985	1989	1983 1977	1998 1985	1974	1999	1999 1983	1988 1982
MIN	OBS TIME ADJUSTMENT	0.9	-0.3	-0.8	-0.9	-1.0	-0.9	-0.9	-1.2	-1.1	-1.4	-1.0	0.6	
	OBS TIME ADJUSTMENT	0.6	0.5	0.3	0.0	-0.2	-0.2	-0.3	-0.2	-0.2	-0.3	-0.1	0.4	·
065 HANKINSON	HIGHEST MEAN MEDIAN	9.2	28.8 13.8	36.9 27.1	51.3	63.2 57.8	73.5 66.4	77.8	75.6 69.3	64.6 58.1	51.9 45.4	38.9 27.2	25.2 14.9	77.8 42.5
	LOWEST MEAN	-6.2	-1.7	19.2	36.1	50.4	61.5	63.9	62.8	54.0	42.6	16.6	-0.3	-6.2
	HIGHEST MEAN YEAR	1990	1987	2000	1987	1977	1988	1975	1983	1998	1973	1999	1997	1975
1.0 T 1.7	LOWEST MEAN YEAR	1982	1979	1996	1979	1979	1985	1992	1977	1993	1988	1985	1983	1982
	OBS TIME ADJUSTMENT OBS TIME ADJUSTMENT	1.5	2.0	1.3	0.0	-0.8 0.4	-0.6 0.3	-0.5 0.1		-0.6 -0.1	0.5	0.2	1.2	
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Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

NORTH DAKOTA

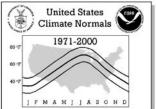
No. Station Name	Element	JAN	FEB	MAR	APR	MAY	NORI JUN	MALS S	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
066 HANNAH	HIGHEST MEAN	16.0	24.6	33.7	48.8	64.5	71.2	70.5	72.0	60.8	48.6	34.8	22.3	72.0
	MEDIAN	2.0	9.5	21.6	39.7	55.4	62.5	66.7	65.7	54.8	43.0	24.1	6.7	37.9
нтс	LOWEST MEAN HEST MEAN YEAR	-11.3 1990	-6.1 1998	11.3 1973	27.2 1987	46.1 1977	56.6 1988	59.0 1989	58.0 1983	49.4 1998	37.4 1973	11.6 1999	-8.2 1997	-11.3 1983
	WEST MEAN YEAR	1982	1979	1974	1979	1979	1985	1992	1977	1974	1976	1985	1983	1982
	IME ADJUSTMENT	-1.8	-1.6	-1.3	-1.0	-1.1	-0.8	-0.8	-1.1	-1.2	-1.6	-1.9	-1.7	
MAX OBS T	IME ADJUSTMENT HIGHEST MEAN	13.9	-2.1 21.9	-1.6 32.9	-2.1 48.7	-2.1 60.9	-1.0 70.6	-1.4 69.9	-1.3 70.3	-1.7 58.7	-1.9 46.0	-2.3 33.1	-2.2 20.1	70.6
007 IMMODORO I WW	MEDIAN	1.2	8.8	21.3	39.2	52.8	61.1	65.4	64.4	53.4	40.5	21.1	6.3	36.4
	LOWEST MEAN	-15.1	-9.9	11.4	26.7	43.9	55.0	58.0	56.7	46.7	32.7	7.1	-6.6	-15.1
	HEST MEAN YEAR WEST MEAN YEAR	1990 1982	1984 1979	2000 1996	1987 1979	1977 1974	1988 1985	1975 1992	1983 1977	1994 1974	1994 1976	1999 1985	1999 1983	1988 1982
	IME ADJUSTMENT	0.9	0.9	-0.2	-0.7	-1.0	-0.8	-0.8	-1.2	-1.1	-0.8	0.2	0.6	1702
	IME ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.1	0.0	-0.2	-0.2	0.0	0.0	0.3	77.0
068 HARVEY	HIGHEST MEAN MEDIAN	24.4	29.2 15.6	38.9 27.1	55.0 43.7	66.3 57.5	77.2 65.9	75.8 71.0	76.6 70.0	65.3 58.9	51.3	39.4 27.4	27.1 13.6	77.2 43.1
	LOWEST MEAN	-5.8	0.1	17.7	34.8	51.5	60.8	64.4	63.6	54.6	41.9	14.6	0.4	-5.8
	HEST MEAN YEAR	1990	1998	1973	1987	1977	1988	1989	1983	1998	1973	1999	1999	1988
	WEST MEAN YEAR IME ADJUSTMENT	1982	1979 -1.7	1996 -1.4	1979	1979 -1.1	1985 -0.7	1993	1977 -1.1	1985 -1.3	1976 -1.7	1996 -1.6	1983 -1.8	1982
	IME ADJUSTMENT	-2.8	-2.9	-2.3	-2.8	-2.8	-2.0	-1.9	-2.5	-2.5	-2.7	-2.6	-2.7	
069 HEART BUTTE D	HIGHEST MEAN	24.8	30.7	37.9	49.8	62.7	75.6	74.9	74.9	64.4	49.5	40.0	27.3	75.6
	MEDIAN LOWEST MEAN	10.4	20.0	26.9 18.5	42.4 34.3	54.9 49.5	64.4 58.7	70.6	69.2 62.5	57.0 53.0	45.2 40.7	27.9 16.2	16.1 -1.1	42.6 -3.4
HIG	HEST MEAN YEAR	1992	1998	1986	1987	1977	1988	1989	1983	1998	1973	1999	1999	1988
	WEST MEAN YEAR	1982	1979	1996	1975	1979	1985	1993	1977	1993	1976	1985	1983	1982
	IME ADJUSTMENT IME ADJUSTMENT	1.5	1.9	2.0	1.4	0.0	-0.1 0.3	-0.1	0.9	0.7	1.3	1.1	1.2	
070 HEBRON	HIGHEST MEAN	25.2	30.0	37.7	48.5	62.6	75.5	73.6	73.8	62.4	47.6	38.9	27.4	75.5
	MEDIAN	10.6	19.5	26.3	41.5	53.9	62.8	69.0	67.3	55.5	43.3	27.3	15.3	41.5
HIG	LOWEST MEAN HEST MEAN YEAR	-4.1 1992	1.9 1998	17.0 1986	32.6 1987	48.9 1977	58.1 1988	61.0 1989	60.7 1983	51.0 1998	38.7 1973	14.3 1999	-2.5 1997	-4.1 1988
	WEST MEAN YEAR	1982	1979	1996	1975	1974	1993	1992	1977	1984	1991	1985	1983	1982
	IME ADJUSTMENT	1.6	2.0	1.2	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.5	1.2	1.2	
071 HETTINGER	IME ADJUSTMENT HIGHEST MEAN	28.0	0.6	0.5	0.5 48.8	0.4	0.3	73.5	0.1 73.9	0.0	0.0 48.0	0.0	0.4	74.0
	MEDIAN	14.0	21.8	29.3	42.0	53.1	62.9	69.3	68.3	56.0	44.4	28.6	18.4	42.4
	LOWEST MEAN	-2.5	2.5	19.8	34.2 1987	48.1	57.7 1988	61.0 1974	61.8 1983	51.1	39.0 1973	13.8 1999	-0.9	-2.5
	HEST MEAN YEAR WEST MEAN YEAR	1992 1979	1999 1979	1986 1996	1987	1977 1996	1988	1974	1983	1998 1993	1973	1999	1999 1983	1988 1979
	IME ADJUSTMENT	1.5	1.9	1.2	0.0	-0.7	-0.5	-0.5	-0.4	-0.6	0.5	1.2	1.3	
MAX OBS T 072 HILLSBORO 3 N	IME ADJUSTMENT HIGHEST MEAN	0.3	0.5	0.5	0.5	0.4	0.3	0.2 74.5	0.1 73.9	-0.1 63.6	0.0 49.7	0.0	0.4	74.5
0/2 HILLSBORO 3 N	MEDIAN	6.4	11.0	25.7	41.7	57.0	65.7	70.5	68.5	57.1	44.4	25.8	11.0	40.5
	LOWEST MEAN	-8.9	-4.3	16.8	33.5	49.5	59.1	62.6	62.6	52.5	40.2	15.3	-0.6	-8.9
	HEST MEAN YEAR	1	1987 1979		1987		1988		1984				1997	1983 1982
	WEST MEAN YEAR IME ADJUSTMENT	1982	2.0	1996 2.2	1979	1979 0.0	1982 -0.1	1992	1977 -0.4	1993	1976	1985 0.9	1.0	1902
	IME 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	
073 HURDSFIELD 8	HIGHEST MEAN MEDIAN	21.2	25.1 11.2	33.4 23.5	47.5 39.3	60.9 52.3	72.3 61.4	71.9	71.8 66.3	61.1 54.2	45.9 41.8	36.3 24.5	23.7	72.3 38.5
	LOWEST MEAN	-10.3	-3.1	14.1	28.8	45.7	55.6	60.9	58.9	49.1	35.5	12.4	-5.6	-10.3
	HEST MEAN YEAR	1990	1998	1986	1987	1977	1988	1989	1983	1998	1973	1999	1997	1988
	WEST MEAN YEAR IME ADJUSTMENT	1982	1979 2.0	1996 2.0	1979	1979 0.0	1985 -0.1	1992	1977 0.9	1985 0.7	1972	1985 1.0	1983 1.1	1982
	IME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.1	0.0	0.3	
074 JAMESTOWN MUN	HIGHEST MEAN	23.2	28.8	37.4	54.1	64.5	74.9	76.4	76.0	63.7	49.5	37.6	25.8	76.4
	MEDIAN LOWEST MEAN	8.9	16.0 -1.7	27.2 19.7	42.4 33.8	55.9 48.9	65.2 59.8	70.8	69.3 61.7	57.5 53.4	45.4	26.6 16.8	12.9 -1.4	41.8 -6.7
HIG	HEST MEAN YEAR	1990	1987	1986	1987	1977	1988	1988	1983	1997	1973	1999	1997	1988
	WEST MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1977	1984	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	
075 JAMESTOWN ST	HIGHEST MEAN	21.5	24.8	33.8	49.4	62.7	74.8	75.0	75.3	63.1	48.0	37.2	23.8	75.3
	MEDIAN	6.5	13.1	24.5	40.9	55.2	64.9	70.7	68.5	56.5	43.6	25.0	10.6	40.2
шта	LOWEST MEAN HEST MEAN YEAR	-9.0 1990	-3.9 1998	16.9 2000	31.0 1987	47.5 1977	58.6 1988	62.8 1988	61.1 1983	50.6 1998	39.0 1973	13.9 1999	-2.0 1997	-9.0 1983
	WEST MEAN YEAR	1982	1979	1996	1975	1979	1985	1992	1977	1985	1976	1985	1983	1982
MIN OBS T	IME ADJUSTMENT	1.4	1.8	2.1	2.3	1.6	1.1	0.8	1.6	1.5	1.2	0.8	0.9	
MAX OBS T	IME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.1	0.0	0.0	-0.1	-0.1	0.2	



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

NORTH DAKOTA

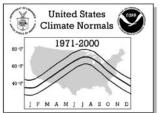
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	NORI Jun	JUL	AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
076	KEENE 3 S	HIGHEST MEAN	24.4	31.1	39.6	53.0	63.5	76.7	74.5	74.8	65.0	49.1	40.1	27.3	76.7
		MEDIAN LOWEST MEAN	10.4	19.8 4.0	28.8 18.9	43.8	55.5 49.2	63.8 58.1	70.0	69.8 62.4	57.5 50.5	45.9	27.9 15.5	14.9 -1.2	42.6 -5.6
	HIGH	EST MEAN YEAR	1992	1998	1986	1987	1977	1988	1974	1983	1998	1974	1999	1999	1988
		EST MEAN YEAR	1982	1989	1996	1975	1974	1998	1993	1977	1984	1976	1985	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	-1.9 -2.7	-1.5 -2.3	-1.2 -1.5	-1.0 -2.1	-1.0 -1.9	-0.7 -1.6	-0.8 -1.6	-1.2 -2.1	-1.3 -1.7	-1.5 -1.8	-1.6 -2.2	-1.8 -2.7	
077	KENMARE 1 WSW	HIGHEST MEAN	22.1	27.2	34.7	48.8	59.3	74.0	72.4	72.0	60.5	46.9	36.0	26.9	74.0
		MEDIAN	7.5	14.9	24.6	41.4	54.3	62.1	67.0	66.2	54.4	42.2	26.4	10.8	39.2
	****	LOWEST MEAN	-11.4	-3.9	16.0	29.5	44.6	56.2	61.1	56.8	47.8	34.3	11.6	-3.4	-11.4
	_	EST MEAN YEAR	1992 1982	1998 1979	1973 1975	1987 1979	1980 1974	1988 1985	1989 1993	1983 1977	1998 1984	1994 1976	1999 1985	1997 1983	1988 1982
		ME ADJUSTMENT	1.5	1.9	1.1	0.0	-0.7	-0.6	-0.7	-0.4	-0.5	0.4	1.2	1.1	1702
		ME ADJUSTMENT	0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.3	
080	LA MOURE	HIGHEST MEAN	7.6	28.2	35.9 26.9	50.7	62.9 56.0	73.9 64.5	74.5	71.6 68.1	63.6 56.9	48.9	37.2 26.3	24.3	74.5 40.4
		MEDIAN LOWEST MEAN	-6.7	-4.6	17.6	32.4	46.8	58.4	62.8	60.1	50.7	38.0	15.6	-2.1	-6.7
	HIGH	EST MEAN YEAR	1990	1987	2000	1987	1988	1988	1988	1973	1998	1973	1999	1999	1988
		EST MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1977	1984	1976	1985	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	1.6	2.0	1.3	0.0	-0.8 0.4	-0.6 0.3	-0.5	-0.4 0.1	-0.6 -0.1	0.5	1.1	1.2	
081	LANGDON EXP F	HIGHEST MEAN	14.3	22.9	31.6	46.7	62.8	71.1	71.2	71.0	59.2	46.3	33.2	22.1	71.2
		MEDIAN	0.6	7.2	19.4	37.7	52.8	61.6	65.8	64.6	53.2	40.0	21.3	5.2	35.9
		LOWEST MEAN	-13.9	-9.1	10.8	26.2	44.4	54.4	58.0	58.0	48.6	34.9	9.7	-6.1	-13.9
		EST MEAN YEAR	1990 1982	1998 1979	2000 1996	1987 1979	1977 1979	1988 1982	1989 1992	1983 1977	1998 1984	1973 1991	1999 1996	1997 1983	1989 1982
		ME ADJUSTMENT	1.6	1.9	1.2	0.0	-0.7	-0.7	-0.6	-1.0	-0.6	0.4	1.0	1.1	1702
		ME 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	
082	LARIMORE	HIGHEST MEAN	18.5	25.6 11.5	34.7	48.4 39.6	64.7 55.3	71.2 64.1	72.3	72.8 66.7	62.2	49.2	38.3	24.7 10.6	72.8
		MEDIAN LOWEST MEAN	-9.2	-4.8	22.8 14.0	30.3	47.0	57.6	60.6	59.6	55.2 50.8	37.6	13.3	-2.3	-9.2
	HIGH	EST MEAN YEAR	1990	1998	2000	1987	1977	1988	1975	1983	1998	1973	1981	1997	1983
		EST MEAN YEAR	1982	1979	1996	1979	1979	1985	1992	1977	1993	1991	1985	1983	1982
		ME ADJUSTMENT ME ADJUSTMENT	1.5	2.0	2.1	1.5	0.0	-0.1 0.3	-0.2	-0.4 0.1	0.7	1.2	0.9	1.1	
083	LEEDS	HIGHEST MEAN	19.5	24.3	34.2	47.2	61.1	72.5	72.8	70.3	59.2	47.6	35.3	24.2	72.8
		MEDIAN	3.7	9.7	21.1	38.8	53.5	62.3	67.0	66.0	54.0	42.0	24.5	8.9	38.1
	IITOII	LOWEST MEAN	-12.1	-6.1	14.2 1973	27.0 1987	45.5	55.8 1988	61.4	57.8	48.8	37.0	12.1 1999	-4.8 1997	-12.1 1989
		EST MEAN YEAR EST MEAN YEAR	1990 1982	1998 1979	1973	1987	1977 1979	1988	1989 1992	1983 1977	1998 1984	1973 1976	1999	1997	1989
		ME ADJUSTMENT	1.5	2.0	2.1	1.5	0.0	-0.1	-0.1	0.8	0.7	1.2	0.9	1.1	
		ME 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	
084	LINTON	HIGHEST MEAN MEDIAN	22.6	30.4 18.5	37.4 28.8	51.7	65.1 55.7	76.6 65.2	76.5	77.2 69.6	64.8 58.0	48.8	35.9 27.3	25.9 16.1	77.2 42.6
		LOWEST MEAN	-5.4	1.6	19.9	35.7	51.4	58.0	62.9	64.2	50.9	40.0	15.4	-2.5	-5.4
		EST MEAN YEAR	1987	1998	1986	1977	1977	1988	1974	1983	1978	1973	1987	1997	1983
		EST MEAN YEAR	1982	1979 -1.2	1996 -0.9	1975	1979 -0.8	1985 -0.5	1992	1977 -0.9	1984	1976 -1.0	1985 -1.1	1983 -1.2	1982
		ME ADJUSTMENT ME ADJUSTMENT	-0.7	-0.6	-0.9	-0.8	-0.8	-0.3	-0.3	-0.9	-0.8 -0.5	-0.5	-0.6	-0.7	
085	LISBON	HIGHEST MEAN	22.7	27.7	35.9	49.1	63.6	73.9	75.4	76.0	63.9	49.4	38.4	26.8	76.0
		MEDIAN	7.1	13.5	24.8	42.1	56.0	65.1	70.5	69.1	57.5	44.5	27.0	11.8	40.8
	нтсн	LOWEST MEAN EST MEAN YEAR	-8.0 1990	-3.2 1987	18.0 2000	33.2 1987	47.5 1977	60.5 1988	63.8	63.0 1983	51.9 1998	39.3 1973	15.9 1999	-2.4 1999	-8.0 1983
		EST MEAN YEAR	1982	1979	1996	1979	1979	1982	1992	1977	1975	1976	1985	1983	1982
		ME ADJUSTMENT	1.5	1.9	2.2	1.5	0.0	-0.1	-0.1	-0.4	0.8	1.3	1.0	1.1	
000		ME ADJUSTMENT	0.5	0.6	0.6 37.4	0.6	0.5	0.3	0.1	0.0 73.6	0.0	0.0	-0.1	0.3	75 0
088	MANDAN EXPERI	HIGHEST MEAN MEDIAN	24.7	29.5 18.0	37.4 26.7	50.6	64.2 55.2	75.8 64.2	75.3	69.6	63.8 56.8	48.7	39.2 27.8	28.1 15.2	75.8 42.3
		LOWEST MEAN	-5.2	-0.8	18.6	33.7	49.5	59.1	62.7	62.4	52.3	40.0	15.5	-2.2	-5.2
		EST MEAN YEAR	1990	1998	1986	1987	1977	1988	1989	1983	1998	1973	1999	1997	1988
		EST MEAN YEAR ME ADJUSTMENT	1982	1979 2.1	1996 1.2	1975	1979 -0.7	1985 -0.5	1992	1977 -0.4	1984 -0.6	1976	1985 1.2	1983	1982
		ME ADJUSTMENT	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.4	
090	MAX	HIGHEST MEAN	21.9	26.7	35.8	48.9	62.9	74.4	74.2	73.1	61.1	47.6	36.5	23.8	74.4
		MEDIAN	6.1	14.1	25.7	40.5	54.1	63.2	68.4	67.2	54.8	42.3	25.2	11.8	39.9
	HIGH	LOWEST MEAN EST MEAN YEAR	-9.8 1990	-2.2 1984	16.7 1973	29.8 1987	46.5 1977	56.1 1988	61.4 1974	60.0 1983	49.8 1998	37.0 1973	13.9 1999	-2.6 1987	-9.8 1988
		EST MEAN YEAR	1982	1979	1998	1979	1979	1985	1993	1977	1985	1991	1985	1983	1982
		ME ADJUSTMENT	1.5	1.9	2.0	1.5	0.0	-0.1	-0.2	0.9	0.7	1.2	1.1	1.2	
I	MAX OBS TI	ME ADJUSTMENT	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.3	



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

NORTH DAKOTA

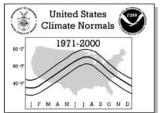
[] F M A M]] A S O N D	NORMALS STATISTICS													
No. Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL
091 MAYVILLE HI	GHEST MEAN MEDIAN	21.5	27.4 13.1	37.2 26.9	53.0 43.4	65.4 57.7	73.9 65.6	75.0 70.0	73.0 68.6	64.7 57.5	50.1 46.0	38.2 26.1	24.8	75.0 41.4
L	OWEST MEAN	-8.8	-3.8	17.7	33.5	49.1	59.2	63.6	61.8	53.5	40.7	15.6	-3.1	-8.8
	MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
LOWEST	MEAN YEAR	1982	1979	1975	1979	1979	1982	1992	1977	1985	1976	1985	1983	1982
MIN OBS TIME		-1.8	-1.6	-1.4	-1.0	-1.1	-0.7	-0.7	-1.0	-1.2	-1.5	-1.5	-1.6	
MAX OBS TIME . 092 MC CLUSKY HI	ADJUSTMENT GHEST MEAN	-2.2 23.8	-2.3 28.8	-1.7 38.4	-2.1 51.1	-2.1 65.5	-1.6 76.9	75.1	-1.3 76.0	-1.7 64.5	-1.8 49.3	-2.1 38.9	-2.1 26.2	76.9
U92 MC CLUSKI HI	MEDIAN	9.1	16.4	27.4	43.5	56.8	65.7	71.0	69.4	58.0	45.5	27.0	13.7	42.5
L	OWEST MEAN	-6.9	-0.3	19.0	33.1	50.0	60.1	63.6	63.2	53.8	40.4	14.7	-2.0	-6.9
HIGHEST	MEAN YEAR	1990	1998	1986	1987	1977	1988	1989	1983	1998	1973	1999	1997	1988
	MEAN YEAR	1982	1979	1996	1979	1979	1985	1993	1977	1984	1976	1985	1983	1982
MIN OBS TIME		-1.7	-1.5	-1.2	-1.0	-1.0	-0.7	-0.7	-1.1 -1.4	-1.1	-1.4 -1.1	-1.5	-1.6	
MAX OBS TIME . 093 MC HENRY 3 W HI	GHEST MEAN	-1.4 21.9	-1.6 26.0	-0.9 34.7	-1.2 49.4	-1.2 64.5	-1.0 73.6	-0.9 74.3	74.0	-1.0 63.2	47.6	-1.4 36.8	-1.5 23.5	74.3
U93 MC HENKI 3 W HI	MEDIAN	4.8	11.4	23.4	41.4	55.6	63.5	69.3	67.9	56.2	43.9	24.6	9.1	39.8
L	OWEST MEAN	-11.5	-3.8	15.6	31.0	47.5	57.8	63.2	60.9	52.2	38.0	13.1	-3.9	-11.5
	MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1989
	MEAN YEAR	1982	1979	1996	1979	1979	1982	1992	1977	1972	1976	1996	1983	1982
MIN OBS TIME		-0.5	-0.4	-0.9	-0.9	-1.1 -0.3	-0.7	-0.8	-1.2 -0.6	-1.4 -0.6	-1.5	-0.9	-0.6	
MAX OBS TIME . 094 MC LEOD 3 E HI	GHEST MEAN	20.5	0.5	0.3	0.0	64.9	0.0 73.7	-0.3 75.0	74.2	64.5	-0.3 50.2	-0.1 36.6	0.2	75.0
OUT THE BEOD S E HIT	MEDIAN	5.8	11.0	25.5	42.4	56.7	66.3	70.8	69.7	58.2	44.6	25.6	10.6	41.0
L	OWEST MEAN	-9.8	-3.4	17.2	33.6	50.3	60.2	64.4	63.4	53.1	40.7	14.7	-3.7	-9.8
	MEAN YEAR	1990	1987	2000	1987	1977	1988	1975	1983	1978	1973	1999	1979	1975
	MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1977	1985	1976	1985	1983	1982
MIN OBS TIME . MAX OBS TIME .		1.6	2.0	1.3	0.0	-0.8 0.4	-0.6 0.3	-0.5 0.1	-0.9 0.0	-0.6 -0.1	0.5	1.0	1.1	
	GHEST MEAN	19.7	25.5	34.8	49.7	65.2	74.4	75.2	76.3	63.9	49.4	35.8	22.8	76.3
050 110 111111	MEDIAN	4.4	11.1	23.1	41.5	56.3	65.1	70.1	68.3	56.7	43.6	24.6	8.8	40.1
L	OWEST MEAN	-11.0	-3.4	16.5	31.3	48.5	58.1	61.7	61.0	51.4	36.9	11.8	-4.0	-11.0
	MEAN YEAR	1990	1998	2000	1977	1977	1988	1989	1983	1978	1973	1999	1997	1983
	MEAN YEAR	1982	1979	1989	1979	1979	1982	1992	1977	1985	1991	1985	1983	1982
MIN OBS TIME . MAX OBS TIME .		-1.8 -2.2	-1.6 -2.3	-1.3 -1.6	-1.0 -2.1	-1.1 -2.1	-0.7 -1.6	-0.7 -1.4	-1.0 -1.3	-1.2 -1.7	-1.5 -1.8	-1.5 -2.1	-1.6 -2.1	
	GHEST MEAN	29.2	33.9	42.0	51.6	62.7	77.3	75.9	77.1	65.6	50.8	40.1	28.8	77.3
	MEDIAN	15.5	25.2	32.2	44.7	55.7	64.9	71.5	70.6	57.8	46.9	30.9	19.9	44.6
	OWEST MEAN	0.7	7.7	21.9	36.1	50.8	54.9	63.4	63.0	52.6	42.4	16.8	1.2	0.7
	MEAN YEAR	1992	1992	1986	1987	1977	1988	1989	1983	1998	1973	1999	1979	1988
LOWEST MIN OBS TIME .	MEAN YEAR	1982 -1.8	1979 -1.6	1996 -1.1	1975 -1.0	1996 -1.0	1998 -0.7	1993	1977 -1.2	1984 -1.5	1976 -1.7	1985 -1.8	1983 -1.8	1982
MAX OBS TIME .		-1.5	-2.0	-1.9	-2.6	-2.8	-2.0	-2.3	-2.5	-2.8	-2.9	-2.3	-1.6	
	GHEST MEAN	24.6	29.0	37.1	51.9	62.8	75.4	74.4	74.5	63.2	48.7	39.6	28.8	75.4
	MEDIAN	9.4	17.5	27.3	42.6	55.6	64.1	69.9	68.9	56.5	45.0	27.2	13.6	41.8
	OWEST MEAN	-7.1	1.3	19.4	33.3	48.1	58.9	62.5	61.6	51.2	39.6	13.2	-0.9	-7.1
	MEAN YEAR			1986			1988		1983			1999		1988
MIN OBS TIME.	MEAN YEAR	1982	1979 0.0	1996 0.0	1979	1979 0.0	1993	1993	1977	1985	1972	1985 0.0	1983	1982
MAX OBS TIME		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
099 MINOT EXPERIM HI	GHEST MEAN	22.0	26.9	36.2	50.0	63.9	75.0	73.4	72.9	61.1	48.2	37.8	26.0	75.0
	MEDIAN	7.2	14.6	25.4	41.2	55.1	64.0	68.7	67.5	55.2	43.1	25.9	12.6	40.5
	OWEST MEAN	-10.1	-1.6	16.4	30.8	48.1	57.6	61.3	60.8	49.8	38.2	12.9	-3.7	-10.1
	MEAN YEAR MEAN YEAR	1990 1982	1998 1979	1986 1996	1987 1979	1977 1979	1988 1985	1975 1993	1983 1977	1998 1984	1973 1991	1999 1985	1997 1983	1988 1982
MIN OBS TIME .		1.5	2.0	1.1	0.0	-0.7	-0.6	-0.7	-0.4	-0.6	0.4	1.2	1.2	1902
MAX OBS TIME		0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.4	
100 MOFFIT 3 SE HI	GHEST MEAN	23.9	30.2	39.0	52.9	64.8	77.7	76.7	76.0	65.7	50.1	39.6	26.4	77.7
	MEDIAN	9.7	17.7	27.7	43.8	56.7	65.6	71.8	70.3	58.9	46.4	27.9	15.8	43.1
	OWEST MEAN	-5.3	0.9	20.8	34.6	50.5	61.2	64.5	61.9	54.4	38.9	16.4	-2.7	-5.3
	MEAN YEAR MEAN YEAR	1990 1979	1998 1979	1986 1996	1987 1975	1977 1979	1988 1985	1989 1992		1998 1984	2000 1976	1999 1985	1997 1983	1988 1979
MIN OBS TIME.		-1.9	-1.6	-1.1	-1.1	-1.0	-0.7	-0.6	-1.2	-1.4	-1.6	-1.7	-1.8	1019
MAX OBS TIME		-2.8	-2.8	-2.4	-2.8	-2.7	-2.0	-1.8		-2.6	-2.9	-2.8	-2.8	
	GHEST MEAN	20.8	27.0	34.7	48.5	61.5	72.7	71.3	71.1	61.7	45.5	38.8	26.7	72.7
	MEDIAN	ı	13.2	24.7	39.2	53.1	61.7	66.5	66.5	53.9	42.0	24.9	9.7	38.5
	OWEST MEAN	-13.1	-4.6	14.4	29.5	44.1	55.2	59.9	58.5	47.4	36.5	11.9	-4.4	-13.1
	MEAN YEAR MEAN YEAR	1990 1982	1998 1979	2000 1996	1987 1979	1977 1979	1988 1985	1989 1993	1983 1977	1998 1972	1994 1976	1999 1985	1999 1983	1988 1982
MIN OBS TIME.		1.1	1.6	1.9	2.4	1.5	1.3	1.0	1.7	1.5	1.1	0.9	0.8	1,002
MAX OBS TIME		0.4		0.6	0.6	0.5	0.3	0.2	0.1	0.0	0.0	-0.1	0.1	
·		<u> </u>			<u> </u>			·	· · · · · · · · · · · · · · · · · · ·		<u> </u>			l



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

NORTH DAKOTA

No	Station Name	Element	JAN	FEB	MAR	APR	MAY		NORMALS STATISTICS JUN JUL AUG SEP		OCT	NOV	DEC	ANNUAL	
		HIGHEST MEAN	26.9	31.5	39.2	48.3	61.8	73.5	74.4	74.5	64.9	47.3	39.4	26.9	74.5
103	NOTI	MEDIAN	11.8	21.2	27.9	41.9	53.7	63.4	70.1	68.8	56.2	43.9	27.3	17.4	42.1
		LOWEST MEAN	-3.9	1.9	19.1	33.0	49.2	58.7	62.0	60.3	51.2	38.8	15.3	-1.5	-3.9
		ST MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1983	1998	1997	1999	1999	1983
		ST MEAN YEAR IE ADJUSTMENT	1978 1.5	1979 1.9	1996 2.0	1975 1.4	1996	1993	1993 -0.1	1977 0.8	1993	1976 1.3	1985 1.1	1983	1978
		E ADJUSTMENT	0.5	0.6	0.5	0.5	0.4	0.3	0.2	0.0	-0.1	0.0	0.0	0.3	
104		HIGHEST MEAN	22.3	27.5	36.0	50.1	62.9	73.6	74.1	74.6	63.1	48.2	39.1	24.2	74.6
		MEDIAN	7.4	15.1	25.8	41.6	54.6	63.7	70.1	68.6	57.1	44.0	26.1	13.4	41.4
	птспе	LOWEST MEAN ST MEAN YEAR	-7.2 1990	-1.0 1998	17.3 1973	31.6 1977	48.1 1977	57.6 1988	61.3 1989	61.3 1983	51.6 1998	38.5 1973	15.3 1999	-2.9 1997	-7.2 1983
		ST MEAN YEAR	1982	1979	1996	1975	1979	1985	1992	1977	1993	1976	1985	1983	1982
	MIN OBS TIM	E ADJUSTMENT	1.6	2.0	1.3	0.0	-0.7	-0.5	-0.6	-0.4	-0.6	0.5	1.1	1.2	
		IE ADJUSTMENT	0.6	0.6	0.5	0.5	0.4	0.3	0.1	0.1	-0.1	0.0	0.0	0.4	
105	NEW ENGLAND	HIGHEST MEAN MEDIAN	27.8	32.7 23.5	40.1 29.8	51.3 43.2	61.9 55.1	77.0 63.8	74.5 69.9	74.9 68.8	63.8 56.9	47.7 44.9	40.0	28.1 18.6	77.0 43.1
		LOWEST MEAN	-0.2	4.0	19.6	34.3	49.5	58.6	62.1	62.3	51.4	41.1	14.2	-0.3	-0.3
	HIGHE	ST MEAN YEAR	1992	1984	1986	1987	1977	1988	1989	1983	1998	1973	1999	1979	1988
		ST MEAN YEAR	1979	1979	1996	1975	1996	1998	1993	1974	1984	1972	1985	1983	1983
		E ADJUSTMENT	-1.6 -1.4	-1.3 -0.9	-1.0 -0.7	-0.9 -0.7	-0.9 -0.6	-0.7 -0.6	-0.7 -0.5	-1.0 -0.8	-1.0 -0.6	-1.2 -0.8	-1.3 -0.9	-1.4 -1.0	
106		HIGHEST MEAN	21.9	30.1	37.2	50.8	62.5	75.6	74.7	74.8	63.4	47.3	39.1	26.3	75.6
- 0	5 2.	MEDIAN	8.2	17.5	25.6	41.3	54.1	63.4	69.9	68.3	57.2	43.9	25.9	13.7	41.2
		LOWEST MEAN	-7.4	1.0	18.1	32.0	49.1	58.8	61.5	61.5	51.8	37.7	12.1	-3.4	-7.4
		ST MEAN YEAR ST MEAN YEAR	1992 1982	1998 1979	1986 1996	1987 1975	1977 1979	1988 1993	1989 1992	1983 1974	1998 1985	2000 1991	1999 1985	1997 1983	1988 1982
		E ADJUSTMENT	1.6	2.0	1.2	0.0	-0.7	-0.5	-0.6	-0.4	-0.6	0.5	1.1	1.3	1902
		E ADJUSTMENT	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.4	
107	OAKES 2 S	HIGHEST MEAN	22.5	27.6	36.3	51.2	65.0	75.1	75.7	75.7	64.1	50.3	37.0	24.0	75.7
		MEDIAN	8.2	13.1	26.8	42.5	56.8	65.2	71.2	69.3	57.8	44.5	26.6	13.0	41.9 -6.5
	HIGHE	LOWEST MEAN ST MEAN YEAR	-6.5 1990	-0.9 1987	18.3 1973	34.2 1987	49.3 1977	1988	63.7 1989	63.7 1983	52.5 1998	39.9 1973	15.1 1999	-1.6 1999	1989
		ST MEAN YEAR	1982	1979	1996	1975	1979	1982	1992	1992	1993	1976	1985	1983	1982
		IE ADJUSTMENT	1.5	2.0	1.3	0.0	-0.7	-0.6	-0.5	-0.4	-0.6	0.5	1.0	1.2	
100		IE ADJUSTMENT HIGHEST MEAN	18.9	0.6	0.6	0.6	0.4	0.3	0.1 74.2	0.0 74.9	-0.1 63.3	0.0 50.1	0.0 37.5	0.3	74.9
100	PARK KIVEK	MEDIAN	5.0	12.2	24.6	41.9	56.6	65.4	69.4	68.1	57.2	44.6	25.5	10.3	40.7
		LOWEST MEAN	-8.7	-3.4	15.7	32.0	48.0	58.4	62.0	61.6	51.9	38.2	13.1	-0.2	-8.7
		ST MEAN YEAR	1990	1998	2000	1987	1977	1988	1989	1983	1998	1973	1999	1997	1983
		ST MEAN YEAR IE ADJUSTMENT	1982 -1.5	1979 -1.4	1996 -1.1	1979 -0.9	1979 -0.9	1982 -0.5	1992 -0.6	1977 -0.8	1985 -1.0	1991 -1.2	1985 -1.2	1983 -1.3	1982
		E ADJUSTMENT	-0.9	-0.9	-0.5	-0.9	-0.9	-0.3	-0.5	-0.8	-0.6	-1.2	-0.8	-0.9	
109		HIGHEST MEAN	13.4	24.3	34.1	47.2	65.3	71.0	72.5	71.6	59.4	48.4	34.0	24.4	72.5
		MEDIAN	0.4	7.0	22.6	39.9	55.0	62.8	67.0	65.7	54.4	41.1	23.8	7.1	37.4
	IIICIIE	LOWEST MEAN ST MEAN YEAR	-12.3 1990	-8.1	11.7 1973	30.2	46.5	55.3	59.2	58.1	49.3	35.1 1973	11.6	-4.7 1997	-12.3 1974
		ST MEAN YEAR		1979	1973	1979	1977	1982		1903			1985		1974
		E ADJUSTMENT	1.6	1.9	1.2	0.0	-0.8	-0.8	-0.6	-1.0	-0.6	0.4	1.1	1.1	
		IE ADJUSTMENT	0.6	0.6	0.6	0.6	0.4	0.1	0.1	0.0	0.0	0.1	0.2	0.3	
110	PETERSBURG 2	HIGHEST MEAN MEDIAN	17.7	24.3	33.3	48.1 39.9	63.0 54.6	70.2 63.2	70.9 67.1	71.4 65.7	61.8 54.8	47.4 41.5	35.1 23.1	22.6 7.2	71.4 37.8
		LOWEST MEAN	-12.7	-6.4	13.1	28.8	45.5	55.6	60.5	58.8	49.6	36.6	11.7	-5.0	-12.7
	HIGHE	ST MEAN YEAR	1990	1998	2000	1987	1977	1988	1983	1983	1998	1973	1999	1997	1983
		ST MEAN YEAR	1982	1979	1996	1979	1979	1982	1992	1977	1984	1976	1996	1983	1982
		IE ADJUSTMENT IE ADJUSTMENT	1.6 0.6	2.0	1.2	0.0	-0.7	-0.6 0.3	-0.6 0.1	-0.9 0.0	-0.6 0.0	0.4	1.0 -0.1	1.1	
111		HIGHEST MEAN	21.7	26.4	36.0	50.8	65.4	75.6	75.7	75.3	64.8	49.8	37.8	23.7	75.7
		MEDIAN	6.7	13.4	25.1	42.6	55.9	65.0	71.0	70.0	58.1	44.7	26.0	12.5	41.4
		LOWEST MEAN	-6.9	-0.7	17.0	34.9	47.1	59.9	63.1	63.3	53.0	37.1	14.3	-4.8	-6.9
		ST MEAN YEAR ST MEAN YEAR	1990 1982	1998 1979	1973 1996	1987 1997	1977 1979	1988 1993	1988 1993	1983 1977	1998 1985	1973 1976	1999 1985	1979 1983	1988 1982
		E ADJUSTMENT	-1.8	-1.6	-1.1	-1.0	-1.1	-0.7	-0.7	-1.1	-1.2	-1.6	-1.6	-1.7	1702
	MAX OBS TIM	IE ADJUSTMENT	-2.2	-2.4	-1.9	-2.2	-2.0	-1.5	-1.4	-2.1	-1.7	-1.8	-2.1	-2.2	
112	POWERS LAKE 1	HIGHEST MEAN	19.6	25.6	35.9	51.0	61.0	72.7	71.9	73.0	60.5	45.5	34.5	22.8	73.0
		MEDIAN LOWEST MEAN	4.2	12.8 -2.6	24.8 13.2	39.7 29.7	53.5 45.8	61.6 55.9	66.9 59.5	65.6 58.8	54.0 48.2	41.8 36.9	24.8 12.1	11.0 -5.9	38.5 -11.6
	HIGHE	ST MEAN YEAR	1990	1984	1986	1987	1977	1988	1989	1983	1990	1977	1981	1997	1983
		ST MEAN YEAR	1982	1994	1996	1979	1979	1985	1993	1977	1972	1991	1985	1983	1982
		E ADJUSTMENT	1.6	1.0	-0.2	-0.7	-0.9	-0.8	-0.8		-1.2	-0.8	0.2	1.2	
		IE ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.1	0.0	0.0	-0.2	0.0	0.0	0.4	I



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

NORTH DAKOTA

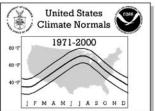
No. Salton Name Element JAN FEB MAR SAP MAY JUN JUL JUL JUG SEP COT NOV DEC ANNUAL JUN									NOR	MALS S	TATISTI	cs				
MEDIAN 12.8 22.9 29.0 31.1 55.0 26.1 70.9 69.4 57.7 45.8 22.2 29.6 42.5	No.	Station Name	Element	JAN	FEB	MAR	APR	MAY					ОСТ	NOV	DEC	ANNUAL
LOWEST MANN NO. 1-1 5.5 20.6 3.8 49.8 9.5 0.2 6 3.6 5.2 7.7 1934 14.8 9-24 9-39 1936 1935 1936 1935 1936 1935 1938 1936 1935 1933 1938 1935 1931 1932 1935 1933 1938 1935 1933 1938 1935 1933 1938 1935 1933 1938 1935 1933 1938 1935 1933 1938 1935 1933 1938 1935 1935 1933 1938 1935 1935 1933 1938 1935 1935 1933 1938 1935 1935 1935 1935 1935 1935 1935 1935	113	PRETTY ROCK HIG														
MAY NO SON TIME ADJUSTMENT 1,4			WEST MEAN	-1.1	5.5	20.6	33.8	49.8	59.5	62.6	63.6	52.7	41.4	14.8	-1.4	-1.4
MIN ORS TIME ADJUSTMENT MAX ORS TIME ADJUSTME																
10		MIN OBS TIME A	DJUSTMENT	-1.6	-1.5	-1.0	-1.0	-0.9	-0.7	-0.6	-1.0	-1.1	-1.4	-1.5	-1.6	1703
MEDIAN 13.2 22.3 28.9 43.3 55.7 64.3 70.8 69.4 57.2 45.7 28.8 17.0 43.4	116															76.5
HIGHEST MEAN YEAR 1922 1994 1996 1975 1974 1988 1999 1977 1986 1979 1986 1987 1989 1978 1989 1979 1988 1989 1978 1989 1979 1988 1989 1979 1986 1989 1979 1986 1989 1979 1986 1989 1979 1986 1989 1979 1986 1989 1979 1986 1989 1979 1986 1989 1979 1976 1978 1989 1989 1989 1989 1989 1989 1989	110		MEDIAN	13.2	22.3	28.9	43.3	55.7	64.3	70.8	69.4	57.6	45.7	28.8	17.0	43.3
LOWEST MEAN YEAR 1982 1979 1996 1975 1974 1992 1977 1994 1972 1995 1983 1982 1971 1984 1972 1984 1972 1985 1983 1982 1971 1984 1972 1984 19													ı			l
MAX OSS TIME ADJUSTMENT PARA IN A PRIMERY MARA MEDIAN MEDI		LOWEST	MEAN YEAR	1982	1979	1996	1975	1974	1992	1992	1977	1984	1972	1985	1983	l
MEDIAN 5.0 9.4 20.3 37.8 51.6 59.7 65.1 64.8 52.7 40.8 22.5 7.5 56.9 65.0 64.8 6													ı			
LONKST MEAN 1.1.5 6.1 12.3 27.0 43.1 53.6 59.0 57.8 47.9 35.0 11.4 -3.6 -11.5 10.0	118	ROLLA 3 NW HIG														
MIN OBS THEA NUTSAN 1982 1979 1974 1975 1985 1991 1985 1982		LO														
MIN OBS TIME ADJUSTMENT 1.6																
119 RUGHY HIGHEST MEAN 20.1 26.4 36.4 51.4 65.7 75.9 75.8 75.8 73.2 62.0 48.1 35.7 24.0 75.9																1982
MEDIAN 5.6 11.8 23.1 41.7 55.7 65.0 68.8 67.5 55.4 43.9 25.3 9.2 40.3	110															75.0
HIGHEST MEAN YEAR LOWEST MEAN YEAR AND OS STIME ADNUSTMENT	1119	RUGBY HIG											ı			l
MIN ORS TIME ADVISTMENT 1,00 1,													ı			l
MAX OBS TIME ADJUSTMENT 1,4																l
120 SAN HAVEN																
LOWEST MEAN YEAR 1990 1996 1979 1979 1985 1970 1986 1973 1999 1997 1998 1997 1998 1998 1998 1998	120															70.7
HIGHEST MEAN YEAR LOWEST MEAN YEAR 1990 1998 1977 1988 1975 1998 1995 1998 1998 1998 1998 1998 199		1.0														
MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT MAX MAY OBS TIME ADJUSTMENT MAX MAY MEDIAN MEDIAN MAX MAY MEDIAN MAX MAY MEDIAN MAX MAY MEDIAN MAX MAX MEDIAN MAX																
MAX OBS TIME ADJUSTMENT 0.5 0.6 0.7 0.6 0.5 0.3 0.2 0.0 0.0 0.1 -0.1 0.2																1982
MEDIAN 4.6 9.9 23.3 40.9 55.7 63.8 68.3 67.7 56.4 43.7 24.3 8.8 39.4										0.2	0.0		0.1			
LOWEST MEAN -10.0	121	SHARON HIG											ı			l
LOWEST MEAN YEAR MAX OSS TIME ADJUSTMENT O.7 -0.7 -0.5 -0.4 -0.4 -0.4 -0.3 -0.3 -0.3 -0.3 -0.4 -0.5 -0.6 -0.6 MAX OSS TIME ADJUSTMENT O.3 -0.2 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1			WEST MEAN	-10.0	-4.5	14.8	31.0	47.4	58.0	61.5	59.0	52.1	38.1	13.8	-2.8	-10.0
MIN OBS TIME ADJUSTMENT													ı			l
124 STANLEY 3 NNW HIGHEST MEAN MEDIAN 4.5 13.3 23.3 39.2 52.4 61.6 66.7 65.8 53.3 41.5 24.5 9.9 38.4 1.5 1.0		MIN OBS TIME A	DJUSTMENT	-0.7	-0.7	-0.5	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.5	-0.6	-0.6	
MEDIAN 4.5 13.3 23.3 39.2 52.4 61.6 66.7 65.8 53.3 41.5 24.5 9.9 38.4	124															73.0
HIGHEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR 1982 1979 1996 1975 1974 1985 1993 1977 1984 1972 1985 1983 1982 1979 1996 1975 1974 1985 1993 1977 1984 1972 1985 1983 1982 1979 1996 1975 1974 1985 1993 1977 1984 1972 1985 1983 1982 1979 1996 1975 1979 1986 1975 1979 1986 1975 1979 1986 1975 1979 1986 1975 1979 1986 1975 1979 1986 1989 1989 1989 1989 1989 1989 198			MEDIAN	4.5	13.3	23.3	39.2	52.4	61.6	66.7	65.8	53.3	41.5	24.5	9.9	38.4
LOWEST MEAN YEAR 1982 1979 1996 1975 1974 1985 1993 1977 1984 1972 1985 1983 1982 1985 1983 1982 1985 1983 1984 1985 19																
MAX OBS TIME ADJUSTMENT 0.5 0.6 0.6 0.6 0.5 0.3 0.2 0.1 0.0 0.1 0.0 0.2		LOWEST	MEAN YEAR													1982
MEDIAN 7.8 16.2 25.3 42.4 55.8 64.4 70.3 69.0 57.1 44.9 26.3 13.3 41.2																
LOWEST MEAN YEAR 1992 1998 2000 1977 1977 1988 1989 1983 1998 1973 1999 1999 1989 1980 1980 1985 1982 1979 1996 1975 1979 1985 1992 1977 1984 1976 1985 1982 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1979 1986 1985 1982 1982 1982 1982 1982 1982 1982 1982	125	STEELE 3 N HIG		22.8	28.2	35.5	52.5	63.4	74.6	74.7	74.6	63.6	48.9	38.3	25.5	l
LOWEST MEAN YEAR 1982 1979 1996 1975 1979 1985 1992 1977 1984 1976 1985 1983 1982 1978 1985 19		LO											1			ı
MIN OBS TIME ADJUSTMENT													ı			l
126 STREETER 7 NW HIGHEST MEAN MEDIAN 7.0 13.8 24.4 40.3 53.4 62.5 68.8 67.4 55.4 43.4 25.4 11.7 40.3 11.6 46.8 57.4 60.4 60.6 50.4 38.9 14.4 -3.4 -7.1 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19													ı			1984
MEDIAN 7.0 13.8 24.4 40.3 53.4 62.5 68.8 67.4 55.4 43.4 25.4 11.7 40.3 40.3 40.4	126															73.0
HIGHEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR AND MIN OBS TIME ADJUSTMENT LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR AND MEDIAN LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR MEDIAN LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	120	SIRECIER / INW HIG		7.0					62.5							40.3
LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT 1.6 2.0 1.3 0.0 -0.7 -0.6 -0.6 -0.4 -0.6 0.5 1.1 1.2 MAX OBS TIME ADJUSTMENT 0.6 0.6 0.5 0.5 0.4 0.3 0.1 0.1 0.0 0.0 0.0 0.4 1.2 TIOGA 1 E HIGHEST MEAN ELOWEST MEAN -9.2 -1.2 15.4 30.4 46.4 56.7 59.9 59.3 48.7 36.9 13.1 -4.3 -9.2 HIGHEST MEAN YEAR LOWEST MEAN YEAR 1982 1979 1996 1979 1979 1983 1993 1977 1984 1976 1985 1983 1982 MIN OBS TIME ADJUSTMENT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																
MAX OBS TIME ADJUSTMENT		LOWEST	MEAN YEAR	1982	1979	1996	1975	1979	1985	1992	1977	1993	1976	1985	1983	
129 TIOGA 1 E HIGHEST MEAN MEDIAN 5.8 15.4 26.0 40.8 53.6 62.5 68.0 66.8 54.4 42.4 25.6 13.1 39.6 LOWEST MEAN YEAR LOWEST MEAN YEAR LOWEST MEAN YEAR MIN OBS TIME ADJUSTMENT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																
LOWEST MEAN -9.2 -1.2 15.4 30.4 46.4 56.7 59.9 59.3 48.7 36.9 13.1 -4.3 -9.2 HIGHEST MEAN YEAR 1990 1998 1986 1980 1977 1988 1975 1983 1998 1973 1999 1997 1983 LOWEST MEAN YEAR 1982 1979 1996 1979 1979 1993 1993 1977 1984 1976 1985 1983 1982 MIN OBS TIME ADJUSTMENT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	129		HEST MEAN	22.4	27.7	37.2	47.8	61.9	74.0	72.6	74.3	61.5	47.5	36.2	24.2	l
HIGHEST MEAN YEAR 1990 1998 1986 1980 1977 1988 1975 1983 1998 1973 1999 1997 1983 1986 1000 1998 1998 1999 1999 1999 1999 1999		T.O.											ı			l
MIN OBS TIME ADJUSTMENT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		HIGHEST	MEAN YEAR	1990	1998	1986	1980	1977	1988	1975	1983	1998	1973	1999	1997	1983
													ı			1982
													ı			



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

NORTH DAKOTA

No.	Station Name	NORMALS STATIS ne Element JAN FEB MAR APR MAY JUN JUL AUG		_	CS SEP	ОСТ	NOV	DEC	ANNUAL						
130	TOWNER 2 NE	HIGHEST MEAN MEDIAN	20.2	26.2 10.3	34.0 21.9	48.8	62.6 54.7	73.5 62.8	72.5	73.0 67.0	61.1 54.9	48.4	34.8 24.2	24.2	73.5 39.0
		LOWEST MEAN	-12.2	-6.4	13.6	28.2	47.0	56.5	61.0	57.9	50.0	36.4	10.6	-5.0	-12.2
		HEST MEAN YEAR	1990	1998	1973 1996	1987	1977 1974	1988 1985	1989	1983	1998	1973 1991	1999	1997	1988
		VEST MEAN YEAR IME ADJUSTMENT	1982	1979 2.1	1.2	1979	-0.7	-0.6	1993	1977 -0.4	1984 -0.6	0.4	1985 1.1	1983	1982
		ME ADJUSTMENT	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.3	
131	TROTTERS 3 SS	HIGHEST MEAN MEDIAN	27.9 13.5	31.9 23.0	40.2	50.9	61.7 54.5	76.7 63.2	74.3	75.3 69.6	65.3 56.4	48.2	41.4 29.1	29.2 17.5	76.7 42.9
		LOWEST MEAN	-3.1	4.4	19.8	34.6	49.2	58.0	61.6	61.7	50.9	40.1	13.5	-2.0	-3.1
		IEST MEAN YEAR IEST MEAN YEAR	1992 1982	1998 1989	1986 1996	1987 1975	1988 1974	1988 1998	1989 1993	1983 1974	1998 1984	1974 1972	1999 1985	1999 1983	1988 1982
		ME ADJUSTMENT	-1.6	-1.3	-1.0	-0.9	-0.9	-0.6	-0.7	-1.0	-1.2	-1.2	-1.3	-1.5	1902
1 2 0		ME ADJUSTMENT	-1.4	-0.8	-0.5	-0.6	-0.6	-0.5	-0.5	-0.8	-1.0	-0.7	-0.9	-1.4	74.6
132	TURTLE LAKE	HIGHEST MEAN MEDIAN	23.6	27.5 14.9	37.7 25.9	49.4	63.7 54.3	74.5 64.0	74.1	74.6 68.7	61.9 56.3	48.5	37.3 25.7	25.0 12.9	74.6 40.6
		LOWEST MEAN	-8.9	-2.2	17.0	31.9	48.4	57.3	61.4	61.7	51.2	39.4	14.4	-4.0	-8.9
		IEST MEAN YEAR VEST MEAN YEAR	1990 1982	1998 1979	1986 1996	1987 1979	1977 1979	1988 1985	1974 1992	1983 1985	1978 1993	1974	1999 1985	1997 1983	1983 1982
		ME ADJUSTMENT	0.9	1.1	-0.2	-0.7	-0.9	-0.7	-0.8	-1.0	-1.1	-0.8	0.2	0.6	1702
122		ME ADJUSTMENT	0.6	0.6	0.5	0.4	0.2	0.2	0.0	0.0	-0.2	0.0	0.0	0.4	76.0
133	TUTTLE	HIGHEST MEAN MEDIAN	25.5 9.7	29.8 17.5	39.2 27.6	52.2 43.8	64.1 56.6	75.5 65.2	74.4	76.2 70.1	64.0 57.7	49.3	40.2 28.3	28.1 14.8	76.2 42.5
		LOWEST MEAN	-4.1	-2.0	18.9	32.4	50.5	59.0	63.2	61.0	53.2	39.7	16.9	0.8	-4.1
		HEST MEAN YEAR HEST MEAN YEAR	1990 1979	1998 1979	1973 1979	1987 1979	1977 1979	1988 1985	1983 1992	1983 1977	1998 1984	1973 1976	1999 1996	1997 1983	1983 1979
		ME ADJUSTMENT	-1.9	-1.7	-1.1	-1.1	-1.1	-0.7	-0.8	-1.2	-1.3	-1.7	-1.7	-1.8	10,0
124	MAX OBS TI	ME ADJUSTMENT	-2.8 20.9	-2.9 26.4	-2.4 36.4	-2.8 50.8	-2.7 62.7	-2.0 75.9	-2.0 74.2	-2.6 74.6	-2.5 63.9	-2.7 46.5	-2.7 38.5	-2.8 24.6	75.9
134	UNDERWOOD	HIGHEST MEAN MEDIAN	7.1	14.4	25.4	41.4	55.1	64.1	69.6	68.3	56.6	43.7	25.2	11.3	40.6
	_	LOWEST MEAN	-8.5	-2.1	16.2	32.1	48.9	58.9	62.3	60.7	52.2	38.8	12.5	-4.0	-8.5
		IEST MEAN YEAR VEST MEAN YEAR	1992 1982	1998 1979	1986 1996	1987 1979	1977 1979	1988 1993	1989 1993	1983 1977	1998 1986	1973 1972	1999 1985	1999 1983	1988 1982
		ME ADJUSTMENT	1.6	2.0	1.1	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.4	1.1	1.3	1702
125	MAX OBS TI UPHAM 3 N	ME ADJUSTMENT HIGHEST MEAN	0.6 18.5	0.6	0.6	0.5	0.4	0.3 74.3	72.0	0.1 72.5	0.0	0.1 46.0	0.0	0.4	74.3
133	OPHAM 3 N	MEDIAN	3.2	10.1	23.4	40.5	54.6	63.1	67.9	66.7	54.3	41.5	23.9	8.8	38.7
		LOWEST MEAN	-12.9	-3.4	14.4	29.5	47.8	57.3	61.2	59.7	49.7	36.3	11.4	-4.5	-12.9
		IEST MEAN YEAR VEST MEAN YEAR	1990 1982	1998 1979	1973 1996	1987 1979	1977 1979	1988 1985	1975 1993	1983 1977	1998 1972	1973 1976	1981 1985	1997 1983	1988 1982
	MIN OBS TI	ME ADJUSTMENT	1.5	2.0	1.2	0.0	-0.7	-0.6	-0.6	-0.4	-0.6	0.4	1.1	1.2	
136	MAX OBS TI VALLEY CITY 3	ME ADJUSTMENT HIGHEST MEAN	0.5	0.6	0.6	0.5 48.3	0.4	0.3	0.1 73.0	0.1	0.0	0.1	0.0	0.3	73.0
150	VALLET CITT 5	MEDIAN	5.9	11.8	24.2	41.3	55.1	63.7	68.6	66.9	56.0	43.3	25.8	10.2	39.8
	IIICI	LOWEST MEAN	-9.2 1990	-3.7 1987	16.1 2000	31.0 1987	47.7 1977	57.3 1988	62.4 1989	59.4 1983	51.5 1998	36.4 1973	13.5 1999	-2.2 1997	-9.2 1989
		HEST MEAN YEAR WEST MEAN YEAR	1982	1979	1996	1975	1977	1982	1992	1903	1984	1973	1985	1983	1982
		ME ADJUSTMENT	1.5	2.0	2.2	1.5	0.0	-0.1	-0.1	-0.4	0.7	1.3	0.9	1.1	
137	MAX OBS TI VELVA 3 NE	ME ADJUSTMENT HIGHEST MEAN	0.5	0.6	0.6	0.6 49.8	0.5	0.3 74.6	73.6	0.0	0.0	0.1	-0.1 35.8	0.2 27.2	74.6
	,,,	MEDIAN	6.2	14.7	25.5	41.1	55.3	64.5	69.9	67.2	55.7	43.7	25.7	11.5	40.7
	итсь	LOWEST MEAN HEST MEAN YEAR	-9.7 1990	-2.2 1998	17.4 1986	31.9 1987	49.9 1977	58.5 1988	61.3 1974	61.5 1983	50.0 1998	38.5 1973	12.6 1999	-3.2 1997	-9.7 1988
		VEST MEAN YEAR	1982	1979	1996	1979	1979	1993	1993	1985	1984	1976	1985	1983	1982
		ME ADJUSTMENT	1.6	2.0	1.1	0.0	-0.7	-0.6	-0.7	-0.4	-0.6	0.4	1.1	1.2	
139	MAX OBS TI	ME ADJUSTMENT HIGHEST MEAN	0.6	0.6	0.6	0.5	0.4	0.3 75.6	0.1 77.0	0.1 76.7	0.0	0.1 52.7	0.0	0.4	77.0
		MEDIAN	9.1	13.8	28.6	45.0	59.6	67.6	71.7	70.4	59.8	46.9	28.0	13.7	43.3
	нтан	LOWEST MEAN HEST MEAN YEAR	-4.7 1990	0.5 1987	20.1	37.1 1987	51.9 1977	62.3 1988	64.8 1989	64.5 1983	55.7 1998	43.0 1973	16.9 1999	-0.4 1997	-4.7 1989
		WEST MEAN YEAR	1982	1979	1975	1975	1979	1982	1992	1977	1985	1976	1985	1983	1982
		ME ADJUSTMENT	-1.3	-1.3	-1.1	-1.0	-1.0	-0.7	-0.6	-0.9	-1.1	-1.4	-1.2	-1.5	
141	MAX OBS TI WASHBURN	ME ADJUSTMENT HIGHEST MEAN	-1.2 24.9	-0.9 30.1	-1.3 38.4	-1.4 51.7	-1.3 65.4	-1.0 76.0	-0.9 74.7	-0.7 75.9	-1.4 65.0	-1.3 49.0	-0.8 39.9	-1.4 28.0	76.0
		MEDIAN	8.9	17.2	27.7	43.1	56.0	64.8	70.5	68.9	57.9	45.4	28.0	13.7	42.2
	нта	LOWEST MEAN HEST MEAN YEAR	-6.9 1990	-0.3 1998	19.4 1986	34.2 1977	50.1 1977	60.0 1988	63.3 1989	63.2 1983	53.4 1998	41.5 1973	15.5 1999	-1.8 1997	-6.9 1988
		NEST MEAN YEAR	1982	1998	1986	1977	1977	1988	1989	1983	1998	1973	1999	1983	1988
		ME ADJUSTMENT	1.6	2.0	1.1	0.0	-0.7	-0.6	-0.6	-0.4	-0.5	0.4	1.2	1.3	
	MAX OBS TI	ME ADJUSTMENT	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.1	0.0	0.4	



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

NORTH DAKOTA

						NORMALS STATISTICS							
No. Station Name		N FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		ANNUAL
143 WATFORD CITY HIGH	EST MEAN 23 MEDIAN 8	.5 29.6 .0 17.5	37.8 27.1	49.2	60.7 53.6	74.7 62.7	74.3	74.3 67.7	62.8 55.0	49.4 43.2	37.5 26.4	25.1 14.7	74.7 40.7
LOW	EST MEAN -6		16.8	32.0	48.4	57.5	60.9	61.7	49.8	37.5	13.4	-4.5	-6.8
HIGHEST M			1986	1987	1977	1988	1974	1983	1998	1973	1999	1997	1988
LOWEST M MIN OBS TIME AD		82 1979 .6 1.1	1996 -0.2	1975	1996 -0.9	1985 -0.7	1993	1977 -1.0	1984 -0.6	1976 -0.8	1985	1983	1982
MAX OBS TIME AD		.6 0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.4	
	EST MEAN 26		40.5	53.4	65.2	77.9	77.3	76.5	65.0	50.3	39.7	27.7	77.9
_	MEDIAN 13		31.4	44.8	56.6	65.2	71.7	70.3	58.3	46.6	29.3	18.6	44.1
LOW HIGHEST M	EST MEAN -3 EAN YEAR 19		21.0 1986	35.0 1987	51.1 1977	59.9 1988	63.0 1989	63.4 1983	51.6 1998	42.8 1973	16.6 1999	-0.7 1999	-3.7 1988
	EAN YEAR 19		1996	1975	1996	1998	1993	1977	1984	1991	1985	1983	1982
MIN OBS TIME AD				-1.0	-0.9	-0.7	-0.8	-1.1	-1.2	-1.4	-1.5	-1.7	
MAX OBS TIME AD			-0.9	-1.2	-1.1	-1.0	-0.9	-1.4	-1.0	-1.1	-1.4	-2.2	
145 WESTHOPE HIGH	EST MEAN 20 MEDIAN 4	.1 25.6 .0 11.4	37.2 25.1	50.5	65.0 56.1	74.6 64.1	72.1	72.9 67.9	62.0 55.9	47.6 43.7	36.2 24.8	24.4	74.6 39.9
LOW	EST MEAN -11			31.9	49.7	57.5	61.6	60.8	50.7	37.5	11.8	-2.3	-11.5
HIGHEST M				1987	1977	1988	1975	1983	1998	1973	1999	1997	1988
	EAN YEAR 19		1989	1979	1974	1985	1993	1977	1985	1991	1985	1983	1982
MIN OBS TIME AD MAX OBS TIME AD			-1.1 -0.9	-1.0 -1.2	-1.0 -1.2	-0.8 -1.0	-0.8	-1.1 -1.4	-1.1 -1.0	-1.4 -1.1	-1.5 -1.4	-1.7 -2.2	
	EST MEAN 20		36.1	48.9	60.4	74.2	72.2	72.7	61.4	45.8	35.4	23.1	74.2
110 111211002 3 1111 111011		.9 14.0	24.9	40.5	53.6	62.8	67.1	65.7	54.1	42.0	25.2	11.6	39.2
	EST MEAN -11			30.7	46.7	56.8	60.4	58.3	47.8	37.8	12.2	-4.9	-11.3
HIGHEST M	I		1986	1987	1977	1988	1989	1983	1998	1973	1999	1997	1988
LOWEST M MIN OBS TIME AD		82 1979 .6 1.0	1996 -0.1	1979	1979 -0.9	1985 -0.8	1993	1977 -1.0	1984 -1.2	1972 -0.8	1985 0.2	1983 1.2	1982
MAX OBS TIME AD		.6 0.6	0.5	0.4	0.2	0.1	0.0	0.0	-0.2	0.0	0.0	0.3	
147 WILLISTON SLO HIGH	EST MEAN 22		38.8	50.6	60.9	76.4	75.5	76.4	63.1	46.3	37.4	26.1	76.4
		.2 18.9	28.0	42.6	55.0	63.3	69.5	68.7	55.3	43.7	26.5	13.5	41.0
	EST MEAN -7 EAN YEAR 19		18.8 1986	32.9	47.5 1977	57.9 1988	1989	60.7 1983	49.7 1998	38.5 1973	12.2 1999	-6.3 1999	-7.7 1988
HIGHEST M	EAN YEAR 19		1996	1979	1977	1985	1993	1977	1984	1973	1999	1983	1982
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	1702
MAX 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	
148 WILLISTON EXP HIGH	EST MEAN 25			53.3	64.2	78.5	77.0	77.2	66.5	49.9	41.4	28.4	78.5
T.OW	MEDIAN 10 EST MEAN -6		30.3	45.2 34.6	57.4 50.5	65.5 60.3	71.3	70.6 62.9	58.3 52.3	47.0 42.1	29.2 15.2	16.4 -2.7	43.7 -6.2
HIGHEST M	I			1987	1977	1988	1989	1983	1998	1974	1999	1999	1988
LOWEST M	EAN YEAR 19	82 1979	1996	1975	1974	1993	1993	1977	1984	1972	1985	1983	1982
MIN OBS TIME AD				-1.0	-0.9	-0.7	-0.8	-1.1	-1.3	-1.4	-1.5	-1.7	
MAX OBS TIME AD	JUSTMENT -2 EST MEAN 18		-0.9 34.2	-1.2 49.0	-1.1 61.4	-1.0 73.3	-1.0 71.1	-1.4 71.3	-1.7 59.3	-1.1 46.2	-1.4 33.6	-2.1 22.2	73.3
149 WILLOW CITE HIGH		.7 8.9	20.7	40.0	54.0	62.6	67.2	66.0	53.7	40.2	23.1	6.9	37.7
LOW	EST MEAN -13	.9 -7.2	12.2	28.2	47.1	55.9	60.7	57.9	48.1	35.3		-6.1	-13.9
HIGHEST M		90 1998			1977		1	1983			1999		1988
		82 1979		1	1979		1	1977			1985		1982
MIN OBS TIME AD MAX OBS TIME AD		.6 1.9 .6 0.6		0.6	-0.7 0.4		0.1	-0.4		0.4		1.2	
		.3 27.7		50.6			1	72.6		48.3	38.0		73.5
		.9 14.1		41.7		62.9	68.5		56.4	43.8		12.8	40.8
		.1 -0.8		30.9		56.7	1	60.7		38.8	13.8	-2.7	-7.1
HIGHEST M LOWEST M	1 1	92 1998 82 1979		1977	1977 1979	1988	1	1983 1985		1973 1976	1999 1985	1997	1988 1982
MIN OBS TIME AD		.9 1.1		1	-0.9		1	-1.0			0.2	0.6	1702
MAX OBS TIME AD	JUSTMENT 0	.6 0.6	0.5	0.4	0.2	0.2	0.0	0.0	-0.2	0.0	0.0	0.4	