

2003

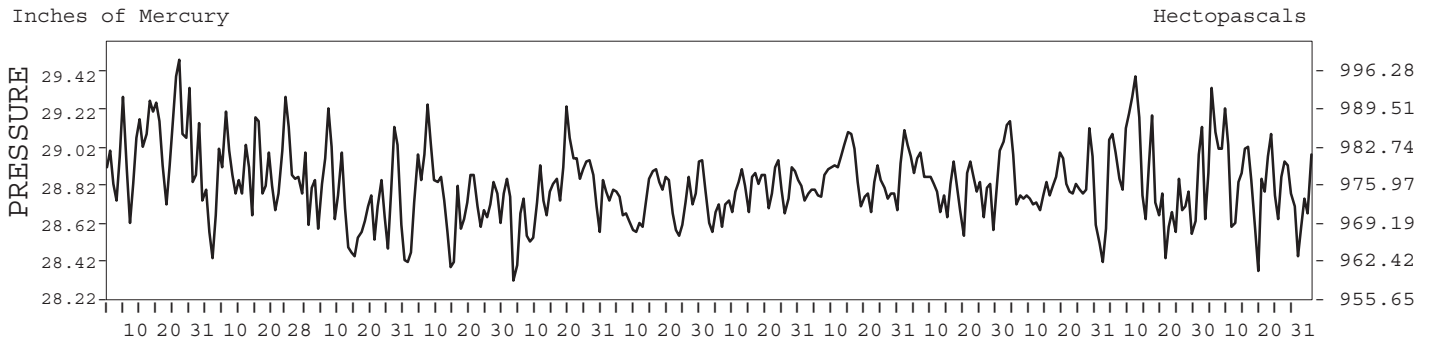
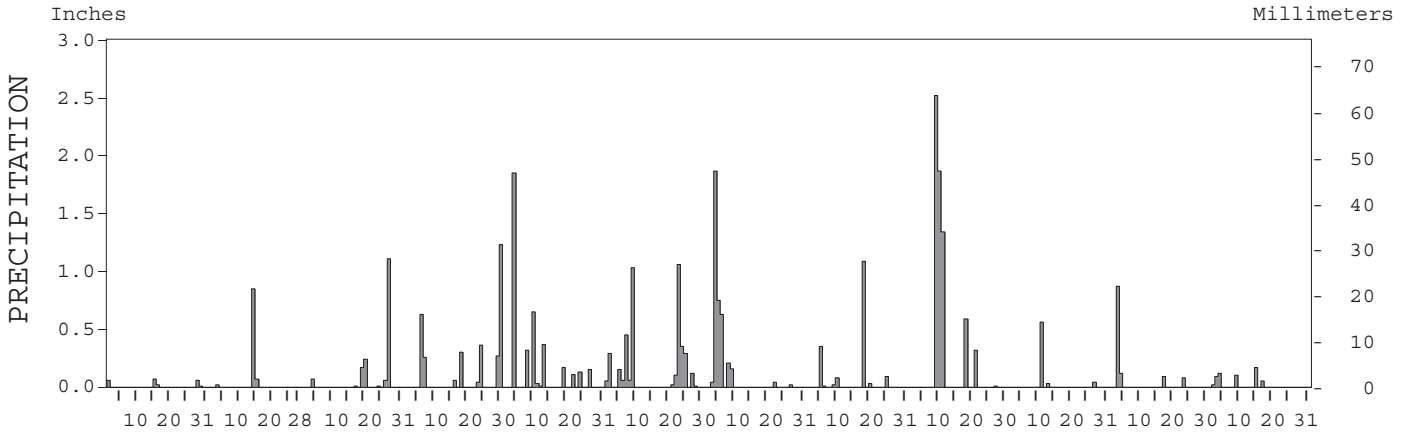
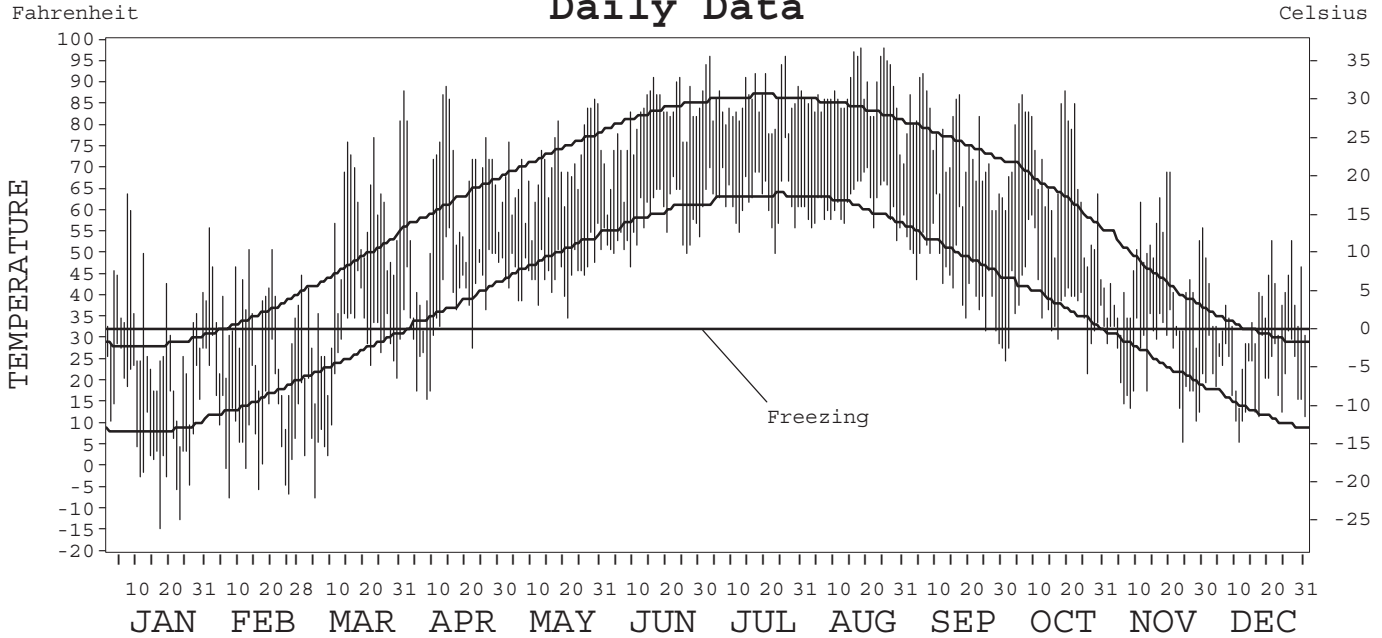
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2095

SIOUX CITY,  
IOWA (SUX)

## Daily Data



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# METEOROLOGICAL DATA FOR 2003

## SIOUX CITY, IA (SUX)

LATITUDE: 42° 23' 29" N      LONGITUDE: 96° 22' 45" W      ELEVATION (FT): GRND: 1136      BARO: 1139      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14943

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	31.0	33.9	49.3	63.2	70.2	80.0	85.9	87.4	75.0	67.8	45.5	36.0	60.4	
	HIGHEST DAILY MAXIMUM	64	56	81	89	86	91	96	98	92	88	69	53	98	
	DATE OF OCCURRENCE	07	01	31	14	29	24+	26+	25+	06	19	20+	27+	AUG 25+	
	MEAN DAILY MINIMUM	10.4	10.2	23.9	38.4	45.8	57.0	62.9	61.4	45.2	38.5	24.5	20.7	36.6	
	LOWEST DAILY MINIMUM	-14	-7	-7	16	35	47	50	53	28	22	6	6	-14	
	DATE OF OCCURRENCE	17	07	05	08	21	09	23	29	30	26	24	11	JAN 17	
	AVERAGE DRY BULB	20.7	22.1	36.6	50.8	58.0	68.5	74.4	74.4	60.1	53.2	35.0	28.4	48.5	
	MEAN WET BULB	18.4		31.9	44.5		61.2	68.7		54.1	46.4	31.4	26.8		
	MEAN DEW POINT	11.7		25.4	37.6		56.4	65.5		48.7	39.9	26.1	22.5		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	3	7	10	2	0	0	0	0	22
	MAXIMUM ≤ 32°	17	12	7	1	0	0	0	0	0	0	4	10	10	51
	MINIMUM ≤ 32°	31	28	21	8	0	0	0	0	4	7	23	31	31	153
	MINIMUM ≤ 0°	7	6	1	0	0	0	0	0	0	0	0	0	0	14
H/C	HEATING DEGREE DAYS	1364	1197	873	430	223	33	0	0	188	373	894	1128	6703	
	COOLING DEGREE DAYS	0	0	0	14	15	144	303	297	47	13	0	0	833	
RH	MEAN (PERCENT)	70	72	68	65	68	69	75	74	70	66	72	79	71	
	HOUR 00 LST	76	77	75	74	81	80	86	87	85	73	75	80	79	
	HOUR 06 LST	76	81	82	80	89	87	91	92	93	86	81	84	85	
	HOUR 12 LST	62	65	59	52	52	57	63	56	52	50	62	72	58	
	HOUR 18 LST	65	65	55	52	51	52	60	59	48	52	68	76	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	2	0	2	3	1	2	1	1	3	2	0	18	
	THUNDERSTORMS	0	0	2	2	4	7	7	4	4	0	0	0	32	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.04	28.90	28.76	28.74	28.79	28.76	28.79	28.88	28.85	28.82	28.87	28.86	28.84	
	MEAN SEA-LEVEL PRESS. (IN.)	30.28		29.96	29.92	29.97	29.92	29.95		30.02	30.00	30.08	30.08		
WINDS	RESULTANT SPEED (MPH)	4.4		2.6	2.7	1.2	1.4	1.0	2.8	1.6	1.4	2.5	1.3		
	RES. DIR. (TENS OF DEGS.)	32		35	09	35	15	12	11	21	27	31	29		
	MEAN SPEED (MPH)	10.3	10.7	11.5	11.9	9.8	8.6	8.8	7.0	9.4	9.2	11.0	11.9	10.0	
	PREVAIL. DIR. (TENS OF DEGS.)	32	32	32	10	31	16	31	10	31	31	31	13	31	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	51	35	33	45	52	40	45	31	40	45	44	52	
	DIR. (TENS OF DEGS.)	33	32	31	18	31	30	28	28	32	31	31	33	30	
	DATE OF OCCURRENCE	09	11	28	15	30	09	05	18	26+	28	12	16	JUN 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	56	43	39	55	58	52	56	40	51	56	49	58	
DIR. (TENS OF DEGS.)	31	32	31	18	31	30	28	28	32	31	31	31	30		
DATE OF OCCURRENCE	09	11	28	15	30	09	05	18	26	28	12	16	JUN 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.22	0.94	1.67	3.15	3.79	4.04	3.72	1.67	6.65	0.63	1.16	0.55	28.19	
	GREATEST 24-HOUR (IN.)	0.09	0.85	1.17	1.50	1.86	1.41	1.87	1.09	2.77	0.56	0.88	0.17	2.77	
	DATE OF OCCURRENCE	15-16	14	26-27	29-30	04-05	23-24	04	18	09-10	11	03-04	15	SEP 09-10	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	5	3	7	8	10	14	8	7	6	3	4	6	81	
PRECIPITATION ≥ 0.10	0	1	3	6	8	9	5	2	5	1	2	3	45		
PRECIPITATION ≥ 1.00	0	0	1	1	1	2	1	1	3	0	0	0	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	3.1	4.9	2.8	9.5	0.0	0.0	0.0	0.0	0.0	T	1.3	5.7	27.3	
	GREATEST 24-HOUR (IN.)	1.5	2.9	2.8	6.3	0.0	0.0	0.0	0.0	0.0	T	1.3	1.9	6.3	
	DATE OF OCCURRENCE	15	14	04	06						29+	23	15	APR 06	
	MAXIMUM SNOW DEPTH (IN.)	2	4	3	7	0	0	0	0	0	0	1	3	7	
	DATE OF OCCURRENCE	19+	16+	06+	08+							25+	17+	APR 08+	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	1	2	1	2	0	0	0	0	0	0	1	3	10		

# NORMALS, MEANS, AND EXTREMES

## SIOUX CITY, IA (SUX)

LATITUDE: 42° 23' 29" N      LONGITUDE: 96° 22' 45" W      ELEVATION (FT): GRND: 1136      BARO: 1139      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14943

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	28.7	35.0	47.3	61.7	73.2	82.5	86.2	83.7	76.0	63.7	44.8	31.7	59.5
	MEAN DAILY MAXIMUM	56	28.0	34.0	44.8	61.6	72.9	82.1	86.1	84.0	75.8	64.2	46.2	32.7	59.4
	HIGHEST DAILY MAXIMUM	63	71	71	91	97	102	108	108	104	103	94	81	70	108
	YEAR OF OCCURRENCE		2002	2000	1968	1980	1967	1988	1995	1955	2000	1997	1999	1998	JUL 1995
	MEAN OF EXTREME MAXS.	56	50.4	56.3	71.2	85.9	90.4	96.1	97.5	95.6	91.7	84.4	68.5	54.3	78.5
	NORMAL DAILY MINIMUM	30	8.5	15.3	25.7	37.3	49.2	58.5	62.9	60.6	50.1	38.0	24.8	12.8	37.0
	MEAN DAILY MINIMUM	56	8.2	14.6	24.6	37.5	49.7	59.5	64.1	62.0	51.4	39.6	25.6	13.8	37.5
	LOWEST DAILY MINIMUM	63	-2.6	-2.6	-2.2	-2	25	38	42	37	24	12	-9	-24	-26
	YEAR OF OCCURRENCE		1970	1962	1960	1975	1997	1950	1971	1950	1945	1993	1991	1989	JAN 1970
	MEAN OF EXTREME MINS.	56	-14.7	-8.8	3.6	21.4	34.1	45.6	52.1	49.6	34.4	22.6	7.2	-7.5	20.0
	NORMAL DRY BULB	30	18.6	25.1	36.5	49.5	61.2	70.5	74.6	72.1	63.1	50.8	34.8	22.3	48.3
	MEAN DRY BULB	56	18.0	24.3	34.6	49.4	61.2	70.9	75.1	72.9	63.4	51.9	35.9	23.2	48.4
	MEAN WET BULB	17	19.7	23.9	32.3	43.0	54.1	63.5	68.1	66.4	56.9	42.4	29.9	22.1	43.5
	MEAN DEW POINT	17	14.6	18.8	26.3	35.7	47.7	58.2	64.6	63.4	52.2	36.4	25.2	17.8	38.4
NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.5	1.0	5.6	9.2	6.5	2.4	0.2	0.0	0.0	25.4	
MAXIMUM ≤ 32°	30	18.0	12.5	4.4	0.4	0.0	0.0	0.0	0.0	0.0	0.1	5.1	15.2	55.7	
MINIMUM ≤ 32°	30	30.6	26.6	22.4	8.9	0.6	0.0	0.0	0.0	0.7	7.6	23.2	30.2	150.8	
MINIMUM ≤ 0°	30	8.5	4.4	0.7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.3	19.6	
H/C	NORMAL HEATING DEG. DAYS	30	1439	1131	885	473	172	25	3	10	128	434	891	1309	6900
	NORMAL COOLING DEG. DAYS	30	0	0	0	11	53	198	311	246	87	8	0	0	914
RH	NORMAL (PERCENT)	30	74	74	70	63	64	66	71	74	70	66	74	77	70
	HOUR 00 LST	30	77	79	77	71	72	75	80	84	80	75	79	80	77
	HOUR 06 LST	30	78	80	81	79	80	82	86	89	87	82	82	82	82
	HOUR 12 LST	30	69	67	61	52	54	56	59	61	56	54	65	72	60
	HOUR 18 LST	30	71	68	60	50	50	51	57	60	56	55	68	75	60
S	PERCENT POSSIBLE SUNSHINE	56	57	56	57	59	61	67	73	70	66	63	51	50	61
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	63	2.3	2.7	2.1	0.7	0.6	0.5	0.7	1.9	1.5	1.5	2.2	2.9	19.6
	THUNDERSTORMS	63	0.1	0.3	1.3	3.1	6.8	8.6	8.1	7.3	4.8	1.8	0.4	0.1	42.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1		2.0	5.0		3.0	12.0								
PARTLY CLOUDY	1	3.0		6.0		1.0	4.0								
CLOUDY	1	3.0		5.0		10.0	8.0								
PR	MEAN STATION PRESSURE (IN)	30	28.92	28.91	28.81	28.77	28.76	28.75	28.80	28.82	28.84	28.85	28.85	28.91	28.83
	MEAN SEA-LEVEL PRES. (IN)	17	30.14	30.14	30.05	29.95	29.92	29.90	29.95	30.00	30.01	30.06	30.05	30.14	30.03
WINDS	MEAN SPEED (MPH)	48	11.6	11.4	12.5	13.2	11.9	10.7	9.2	9.0	9.9	10.7	11.6	11.3	11.1
	PREVAIL. DIR (TENS OF DEGS)	32	32	32	32	32	32	16	16	13	14	32	32	32	32
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	55	51	57	53	49	62	49	48	48	51	48	49	62
	DIR. (TENS OF DEGS)		33	32	33	32	31	33	03	30	20	32	33	33	33
	YEAR OF OCCURRENCE		1996	2003	1996	1996	1999	2000	1996	2001	1998	1996	1997	2000	JUN 2000
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	8	63	57	68	64	77	74	57	63	57	61	62	58	77
DIR. (TENS OF DEGS)		34	31	33	21	19	32	03	30	21	32	29	33	19	
YEAR OF OCCURRENCE		1996	1996	1996	2001	1998	2000	1996	2001	1998	1996	1998	2000	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	0.59	0.62	2.00	2.75	3.75	3.61	3.30	2.90	2.42	1.99	1.40	0.66	25.99
	MAXIMUM MONTHLY (IN)	63	2.44	2.66	5.90	6.73	8.46	8.78	10.33	7.75	9.69	5.30	4.10	2.23	10.33
	YEAR OF OCCURRENCE		1949	1971	1987	1984	1959	1967	1972	1951	1965	1979	1948	1982	JUL 1972
	MINIMUM MONTHLY (IN)	63	0.11	0.07	0.04	0.45	0.60	0.53	0.41	0.12	0.07	T	0.01	0.01	T
	YEAR OF OCCURRENCE		1986	1996	1994	1942	1955	1988	1985	1971	1950	1958	1967	1943	OCT 1958
	MAXIMUM IN 24 HOURS (IN)	63	1.09	2.15	2.75	2.09	2.70	3.89	5.50	4.28	2.94	4.55	3.45	1.18	5.50
	YEAR OF OCCURRENCE		1982	1971	1987	1998	1992	1957	1972	1961	1965	1979	1948	1959	JUL 1972
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	6.6	6.3	8.5	10.1	11.4	10.1	9.3	9.2	8.1	6.8	7.1	6.5	100.0	
PRECIPITATION ≥ 1.00	30	*	0.1	0.5	0.6	0.8	1.1	0.7	0.7	0.6	0.3	0.3	0.0	5.7	
SNOWFALL	NORMAL (IN)	30	6.3	5.5	5.8	1.9	0.*	0.0	0.0	0.0	0.*	0.8	4.8	6.3	31.4
	MAXIMUM MONTHLY (IN)	62	29.1	24.5	26.2	9.7	4.0	T	T	0.0	0.4	9.8	16.5	20.6	29.1
	YEAR OF OCCURRENCE		1982	1993	1962	1983	1945	1996	1992		1961	1991	1983	1968	JAN 1982
	MAXIMUM IN 24 HOURS (IN)	62	17.4	15.2	12.4	6.8	4.0	T	T	0.0	0.4	8.8	12.4	9.4	17.4
	YEAR OF OCCURRENCE		1982	1993	1983	1957	1945	1996	1992		1961	1991	1983	1994	JAN 1982
	MAXIMUM SNOW DEPTH (IN)	55	19	18	28	7	0	0	0	0	0	4	13	15	28
	YEAR OF OCCURRENCE		1982	1993	1962	1957						1982	1983	1968	MAR 1962
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	1.7	1.8	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.2	1.6	2.0	9.6	

PRECIPITATION (inches) 2003 SIOUX CITY, IA (SUX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0.27	0.21	0.68	1.60	4.16	3.28	1.29	3.27	0.87	1.55	0.26	0.52	17.96
1975	1.66	0.29	1.43	3.99	2.66	5.34	1.61	4.56	1.17	0.07	3.24	0.29	26.31
1976	0.14	0.85	2.63	2.23	3.12	0.75	1.50	0.30	1.96	0.42	0.04	0.39	14.33
1977	0.27	0.25	4.05	3.14	3.08	4.80	6.34	2.53	4.90	2.79	1.88	1.00	35.03
1978	0.20	0.97	0.60	3.89	3.39	1.50	3.25	4.25	1.77	0.75	0.71	0.80	22.08
1979	1.09	0.35	3.27	2.34	4.43	3.39	1.91	6.28	2.02	5.30	1.90	0.21	32.49
1980	0.59	0.41	1.03	1.37	3.88	1.21	0.50	5.68	1.40	1.39	0.03	0.22	17.71
1981	0.37	0.32	1.78	0.47	1.98	3.07	4.36	1.72	0.97	2.89	1.90	0.57	20.40
1982	1.58	0.38	1.53	0.64	6.93	1.82	3.63	1.54	3.64	4.83	1.75	2.23	30.50
1983	0.39	0.68	4.91	2.19	4.41	4.58	1.27	1.16	3.07	2.09	3.08	0.45	28.28
1984	0.17	1.14	1.79	6.73	5.54	6.79	2.56	0.79	0.71	4.59	1.85	1.36	34.02
1985	0.29	0.12	2.20	5.04	3.24	1.15	0.41	3.69	4.50	1.20	1.01	0.52	23.37
1986	0.11	0.63	3.03	5.73	3.00	5.35	3.26	1.86	5.06	2.56	1.13	0.21	31.93
1987	0.23	0.41	5.90	0.61	4.20	3.09	3.08	3.94	1.44	0.44	0.90	0.48	24.72
1988	0.73	0.43	0.59	2.50	2.47	0.53	2.93	5.16	5.17	0.08	2.08	0.58	23.25
1989	0.96	0.36	0.86	0.94	1.51	1.83	5.76	2.01	4.33	0.19	0.24	0.40	19.39
1990	0.30	0.31	2.18	1.61	7.48	4.20	3.22	1.34	0.86	1.48	0.87	0.78	24.63
1991	0.46	0.38	2.02	3.48	3.87	5.27	0.77	2.17	2.17	2.04	2.70	0.87	26.20
1992	0.60	0.77	3.52	1.13	3.56	2.74	4.81	4.60	2.82	3.69	0.95	0.80	29.99
1993	0.70	2.08	0.85	3.66	3.06	4.23	6.71	6.43	1.29	1.84	1.03	0.53	32.41
1994	1.09	0.65	0.04	2.37	0.88	3.44	4.53	3.33	4.59	2.01	2.24	1.04	26.21
1995	0.31	0.18	2.09	4.74	4.81	2.18	1.36	2.04	3.52	2.22	0.64	0.31	24.40
1996	1.17	0.07	1.09	0.84	6.22	4.39	7.33	4.69	2.65	0.86	1.83	0.43	31.57
1997	0.35	0.34	0.46	2.42	3.71	3.09	1.94	0.63	2.43	1.29	0.26	0.20	17.12
1998	0.80	0.46	4.01	6.06	2.87	5.67	1.49	3.55	0.42	3.49	1.82	0.15	30.79
1999	0.33	0.81	0.89	4.66	5.21	7.90	3.30	4.57	0.52	0.24	0.67	0.35	29.45
2000	0.40	0.76	0.71	1.87	3.91	5.66	3.14	1.78	1.06	2.23	1.55	0.69	23.76
2001	1.72	0.61	0.87	5.21	5.87	2.57	2.18	3.40	3.39	1.20	3.05	0.45	30.52
2002	0.44	0.38	0.95	2.99	2.60	3.69	4.16	5.67	1.27	2.64	0.22	0.13	25.14
2003	0.22	0.94	1.67	3.15	3.79	4.04	3.72	1.67	6.65	0.63	1.16	0.55	28.19
POR= 114 YRS	0.66	0.81	1.49	2.53	3.69	4.02	3.23	2.95	2.79	1.72	1.15	0.70	25.74

WBAN : 14943

AVERAGE TEMPERATURE (°F) 2003 SIOUX CITY, IA (SUX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	16.8	30.0	39.6	52.6	62.2	69.6	81.4	70.8	60.2	54.6	37.5	24.8	50.0
1975	18.3	19.2	29.1	45.6	64.6	69.5	76.4	75.1	59.6	55.1	36.4	25.3	47.9
1976	21.1	33.5	36.4	53.1	58.6	70.2	76.3	74.2	64.2	45.1	29.4	19.3	48.5
1977	8.8	28.3	40.7	55.6	67.3	70.9	75.9	69.4	64.8	51.0	35.5	22.6	49.2
1978	7.5	10.1	32.5	48.5	60.0	70.7	73.8	71.7	68.0	50.3	33.2	15.5	45.2
1979	3.9	9.2	31.3	46.6	57.6	70.0	74.4	72.4	65.2	50.1	34.1	30.1	45.4
1980	21.6	20.3	33.6	51.5	61.2	70.7	78.6	73.8	64.3	48.2	39.9	24.4	49.0
1981	24.4	28.3	40.5	56.6	59.2	72.0	74.5	71.0	65.1	49.5	40.1	20.7	50.2
1982	6.4	20.4	34.0	46.5	62.4	65.4	76.4	72.4	63.1	53.2	34.2	26.3	46.7
1983	22.5	28.1	36.5	43.2	56.5	68.1	77.2	80.9	66.3	52.6	38.2	6.0	48.0
1984	20.7	31.7	29.3	46.8	57.8	70.4	73.7	74.9	60.4	51.8	37.9	24.4	48.3
1985	17.8	23.7	41.5	54.7	64.5	67.9	74.5	69.3	61.4	51.4	25.9	13.8	47.2
1986	28.0	23.0	41.0	51.2	61.8	72.9	76.8	68.6	64.0	51.9	31.9	27.0	49.8
1987	26.9	34.8	40.5	54.8	66.4	74.3	76.9	70.1	64.0	46.6	41.6	28.9	52.2
1988	16.0	20.8	39.4	49.0	67.5	76.5	76.4	76.1	64.9	47.4	37.5	27.2	49.9
1989	29.9	15.3	34.0	52.2	61.1	69.4	77.4	72.7	61.9	52.6	32.9	14.3	47.8
1990	30.4	28.4	40.2	49.2	58.3	73.4	73.4	73.6	67.8	51.2	40.0	19.6	50.5
1991	15.7	33.1	40.2	52.9	65.0	73.9	74.5	74.0	64.3	49.0	28.3	28.9	50.0
1992	30.7	34.7	40.4	46.7	60.8	68.1	68.6	66.8	62.1	51.1	33.3	24.0	48.9
1993	17.5	18.5	31.6	46.5	59.1	67.7	73.1	72.5	58.4	49.4	32.2	25.6	46.0
1994	12.1	17.7	39.5	49.1	63.8	72.6	70.9	69.9	66.7	54.0	38.5	23.4	48.2
1995	20.6	28.8	36.4	45.8	56.9	70.1	74.9	77.0	60.7	50.1	31.7	25.6	48.2
1996	14.6	26.2	29.0	46.1	57.4	71.4	70.5	70.4	60.6	51.2	28.2	15.3	45.1
1997	14.6	24.8	37.9	42.8	55.5	71.8	74.1	70.7	64.8	52.4	32.4	28.5	47.5
1998	23.2	34.8	30.6	50.2	65.2	66.5	74.6	73.5	70.1	54.2	40.5	27.8	50.9
1999	18.9	32.5	37.0	49.2	61.4	68.5	77.7	70.9	61.0	50.5	44.2	28.8	50.1
2000	22.1	33.5	42.4	50.8	64.4	68.2	73.6	73.8	64.4	53.0	27.2	11.5	48.7
2001	21.9	15.6	30.8	51.6	61.6	70.4	75.8	71.6	61.3	50.5	46.5	28.6	48.9
2002	27.6	29.1	28.8	51.0	57.9	74.8	77.8	71.5	64.9	44.5	34.8	28.6	49.3
2003	20.7	22.1	36.6	50.8	58.0	68.5	74.4	74.4	60.1	53.2	35.0	28.4	48.5
POR= 114 YRS	18.8	23.1	34.9	49.3	60.8	70.4	75.4	73.0	64.2	52.1	36.1	23.7	48.5

HEATING DEGREE DAYS (base 65°F) 2003 SIOUX CITY, IA (SUX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	7	180	317	820	1241	1439	1277	1107	575	97	21	7081
1975-76	1	0	204	328	850	1223	1355	907	881	361	218	18	6346
1976-77	1	0	108	620	1062	1411	1738	1019	745	296	24	2	7026
1977-78	0	9	55	428	878	1309	1778	1534	1007	487	194	33	7712
1978-79	1	8	63	448	948	1531	1895	1560	1038	546	255	31	8324
1979-80	1	13	81	457	922	1075	1339	1287	966	419	170	11	6741
1980-81	0	0	108	516	746	1254	1253	1023	752	269	200	3	6124
1981-82	10	4	81	471	741	1367	1816	1245	955	547	116	61	7414
1982-83	0	17	132	366	916	1197	1310	1027	879	648	270	44	6806
1983-84	0	0	113	390	799	1825	1365	956	1098	543	235	7	7331
1984-85	0	5	194	405	805	1254	1459	1149	720	336	86	45	6458
1985-86	1	13	221	414	1168	1581	1142	1172	737	409	124	1	6983
1986-87	0	27	79	396	984	1172	1178	840	752	332	76	6	5842
1987-88	1	44	80	563	693	1111	1514	1276	786	475	47	6	6596
1988-89	0	9	75	542	818	1165	1083	1387	956	428	164	35	6662
1989-90	0	7	161	389	956	1567	1065	1018	759	500	218	21	6661
1990-91	0	2	85	431	744	1401	1521	887	759	379	148	2	6359
1991-92	0	0	150	488	1092	1115	1056	872	757	551	173	21	6275
1992-93	15	45	140	437	944	1262	1466	1297	1032	550	194	49	7431
1993-94	0	12	211	499	978	1217	1633	1322	782	488	136	9	7287
1994-95	1	12	73	338	790	1285	1372	1006	878	567	245	47	6614
1995-96	4	1	198	468	994	1214	1560	1122	1109	562	273	28	7533
1996-97	5	0	181	427	1098	1533	1557	1119	834	660	302	0	7716
1997-98	9	19	85	431	974	1127	1288	841	1062	441	83	79	6439
1998-99	0	0	34	334	723	1146	1423	902	861	465	145	55	6088
1999-00	0	3	164	449	621	1117	1322	908	695	419	98	36	5832
2000-01	7	2	131	368	1128	1652	1328	1377	1053	418	160	31	7655
2001-02	0	7	149	449	548	1122	1153	998	1115	437	274	3	6255
2002-03	0	7	106	628	901	1122	1364	1197	873	430	223	33	6884
2003-	0	0	188	373	894	1128							

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COOLING DEGREE DAYS (base 65°F) 2003 SIOUX CITY, IA (SUX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	0	9	47	173	513	193	41	4	0	0	980
1975	0	0	0	0	91	162	362	320	50	28	0	0	1013
1976	0	0	0	13	26	181	359	294	89	7	0	0	969
1977	0	0	0	21	102	186	346	152	55	0	0	0	862
1978	0	0	5	0	49	210	280	225	159	0	0	0	928
1979	0	0	0	3	33	186	299	249	95	0	0	0	865
1980	0	0	0	24	57	185	430	279	90	4	0	0	1069
1981	0	0	0	25	26	222	309	199	89	0	0	0	870
1982	0	0	0	3	41	79	358	254	85	7	0	0	827
1983	0	0	0	0	16	144	385	502	158	9	0	0	1214
1984	0	0	0	4	16	180	279	320	61	3	0	0	863
1985	0	0	0	35	77	134	302	153	120	1	0	0	822
1986	0	0	2	3	34	246	367	142	55	0	0	0	849
1987	0	0	0	34	132	292	377	210	56	0	0	0	1101
1988	0	0	0	3	132	356	363	361	80	0	0	0	1295
1989	0	0	0	53	49	175	391	254	71	12	0	0	1005
1990	0	0	0	33	14	278	267	272	176	10	0	0	1050
1991	0	0	0	22	156	276	302	287	135	1	0	0	1179
1992	0	0	0	7	49	119	133	108	57	13	0	0	486
1993	0	0	0	0	18	135	261	247	17	18	0	0	696
1994	0	0	0	20	104	242	188	172	130	2	0	0	858
1995	0	0	0	0	1	207	320	380	73	12	0	0	993
1996	0	0	0	1	43	227	179	178	55	7	0	0	690
1997	0	0	0	0	13	212	298	204	89	49	0	0	865
1998	0	0	0	2	95	135	304	271	191	5	0	0	1003
1999	0	0	0	0	39	168	402	193	52	7	0	0	861
2000	0	0	0	2	85	140	284	284	119	4	0	0	918
2001	0	0	0	24	64	202	343	218	45	6	0	0	902
2002	0	0	0	23	60	305	401	216	109	0	0	0	1114
2003	0	0	0	14	15	144	303	297	47	13	0	0	833

SNOWFALL (inches) 2003 SIOUX CITY, IA (SUX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	2.4	6.2	18.2	3.0	6.8	3.4	0.0	0.0	40.0
1975-76	0.0	0.0	0.0	0.0	6.2	0.3	0.8	3.8	7.1	0.0	T	0.0	18.2
1976-77	0.0	0.0	0.0	0.2	0.4	4.3	4.1	0.8	9.4	0.2	0.0	0.0	19.4
1977-78	0.0	0.0	0.0	T	5.7	5.3	1.8	10.8	3.0	T	0.0	0.0	26.6
1978-79	0.0	0.0	0.0	0.0	4.7	7.5	11.3	3.3	8.4	1.2	0.0	0.0	36.4
1979-80	0.0	0.0	0.0	0.1	4.0	1.5	4.7	4.3	5.8	1.3	0.0	0.0	21.7
1980-81	0.0	0.0	0.0	3.0	0.2	2.5	5.5	5.5	0.4	0.0	0.0	0.0	17.1
1981-82	0.0	0.0	0.0	2.0	6.8	6.8	29.1	3.7	4.5	3.9	0.0	0.0	56.8
1982-83	0.0	0.0	0.0	8.0	0.3	12.4	3.2	6.8	19.1	9.7	0.0	0.0	59.5
1983-84	0.0	0.0	0.0	0.0	16.5	9.4	1.8	10.2	17.8	5.1	0.0	0.0	60.8
1984-85	0.0	0.0	0.0	T	2.2	6.2	3.7	0.9	10.8	T	0.0	0.0	23.8
1985-86	0.0	0.0	T	T	9.4	9.0	1.4	1.9	5.4	2.1	0.0	0.0	29.2
1986-87	0.0	0.0	0.0	T	5.1	2.1	3.5	3.4	7.7	T	0.0	0.0	21.8
1987-88	0.0	0.0	0.0	T	5.4	1.9	7.5	5.5	1.0	4.4	0.0	0.0	25.7
1988-89	0.0	0.0	0.0	0.0	9.1	1.9	3.3	6.2	6.3	0.3	T	0.0	27.1
1989-90	T	0.0	0.0	0.0	2.4	7.1	5.5	3.8	3.0	0.1	T	T	21.9
1990-91	0.0	0.0	0.0	0.4	5.7	7.7	6.7	3.9	8.5	T	0.0	T	32.9
1991-92	0.0	0.0	0.0	9.8	8.4	0.5	1.2	1.8	2.1	6.2	T	0.0	30.0
1992-93	T	0.0	0.0	T	1.7	6.9	7.8	24.5	2.4	0.3	0.0	0.0	43.6
1993-94	0.0	0.0	T	T	10.2	9.1	7.9	12.9	0.4	2.9	T	T	43.4
1994-95	0.0	0.0	0.0	0.0	8.4	13.9	2.6	1.9	8.5	0.3	0.0	0.0	35.6
1995-96	0.0	0.0	0.0	0.0	1.5	2.7	8.1	0.1	4.7	2.0	T	T	
1996-97	0.0	0.0	0.0	0.0	0.0	9.7			1.6		0.0	0.0	
1997-98		0.0	0.0	0.3	0.9	1.6	5.7	3.0	11.5	0.1	0.0	T	
1998-99	0.0	0.0	0.0	0.0	4.1	5.0	7.3	13.6	9.4	0.8	0.0	0.0	40.2
1999-00	T	0.0	0.0	T	1.5	4.6	4.1	4.0	1.0	1.9	0.0	0.0	17.1
2000-01	0.0	0.0	0.0	0.0	8.3	18.0	12.2	7.3	2.2	0.2	0.0	T	48.2
2001-02	0.0	0.0	0.0	0.0	T	3.5	7.0	4.4	10.6	T	0.0	0.0	25.5
2002-03	0.0	0.0	0.0	7.6	2.3	1.2	3.1	4.9	2.8	9.5	0.0	0.0	31.4
2003-	0.0	0.0	0.0	T	1.3	5.7							
POR= 61 YRS	T	0.0	0.0	0.8	3.8	6.1	6.2	5.7	7.0	1.6	0.1	T	31.3

WBAN : 14943

REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003  
SIOUX CITY,  
IOWA (SUX)

Sioux City is located along the Missouri River at a point where Iowa borders both Nebraska and South Dakota. Except for the river valleys, the countryside is rolling. The Sioux City business section lies in the river valley and the residential sections, for the most part, are spread over the hills which range from 100 to 200 feet higher than the valley. The local topography causes minor variations in wind and temperature.

Located in the midland of a continent and in the northern half of the Great Plains, the climate of Sioux City is typically continental and is largely determined by the movement and interaction of the large-scale weather systems. Under normal conditions, winters are cold and summers warm, and most of the precipitation comes during the warmer months from April to September. There is

considerable fluctuation in temperature and precipitation from season to season and from year to year, as elsewhere in the northern plains. Except for an occasional dry year, the climate is quite favorable for agriculture with corn, the small grains, and grasses producing abundantly.

The grass usually starts to grow about the middle of April. The growing season averages about 160 days. Summers are sunny and most summer rains are associated with showers or thunderstorms. Winds are lightest in the summer months, except for occasional strong gusts with thunderstorms. Winds gradually increase in autumn and winter and usually reach their highest average velocities in April.

# STATION LOCATION

SIOUX CITY, IOWA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATED OBSERVING EQUIPMENT *	* TYPE  M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS
						GROUND											
						SEA LEVEL GROUND TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
*NOTES: <u>AIRPORT</u>																	
Third Admn. Building Municipal Airport	1/29/54	06/01/95	3/4 mi. NW	42°24'	96°23'	1095	a24 e28	19	19	18	17	c8	d17	b5 f5	a. 103 ft. to 6/5/58. b. Commissioned 1650 ft. W of thermometer site 1/1/60. c. 4 ft. to 4/28/66. d. Installed on roof 5/14/80. e. Raised 8/25/83. f. Type Change 9/6/85.		
Municipal Airport	06/01/95	Present	NA	42°23'	96°23'	g1136								S	ASOS Commissioned 06/01/95 g. Ground elevation.		

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\* NOTES: For earlier station history see previous editions.