

1999

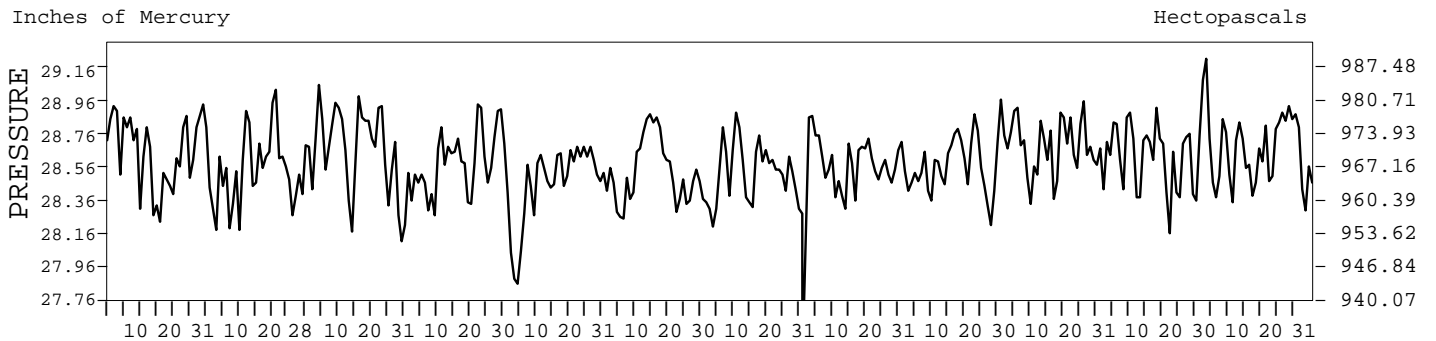
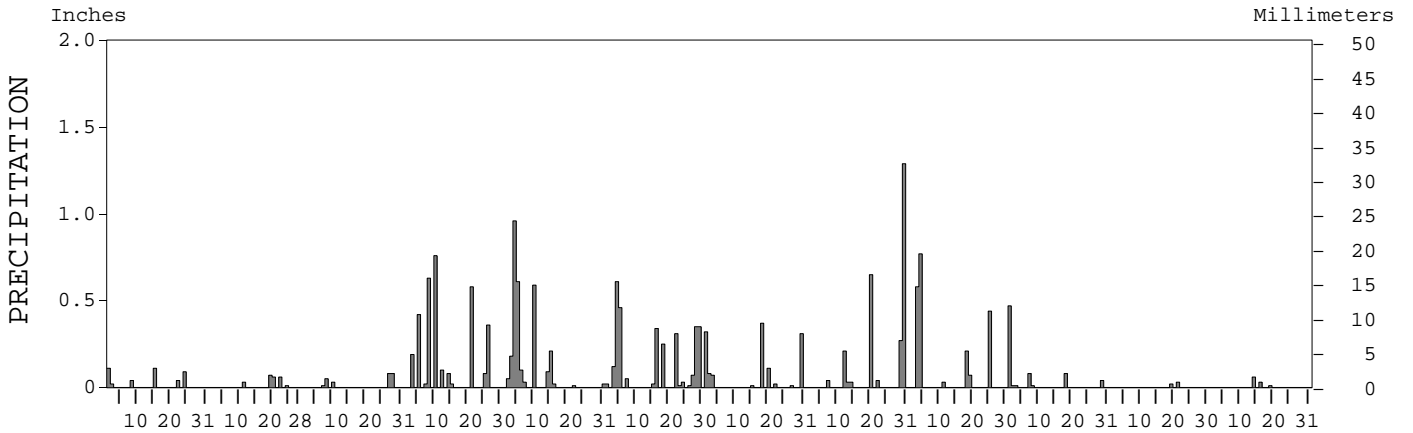
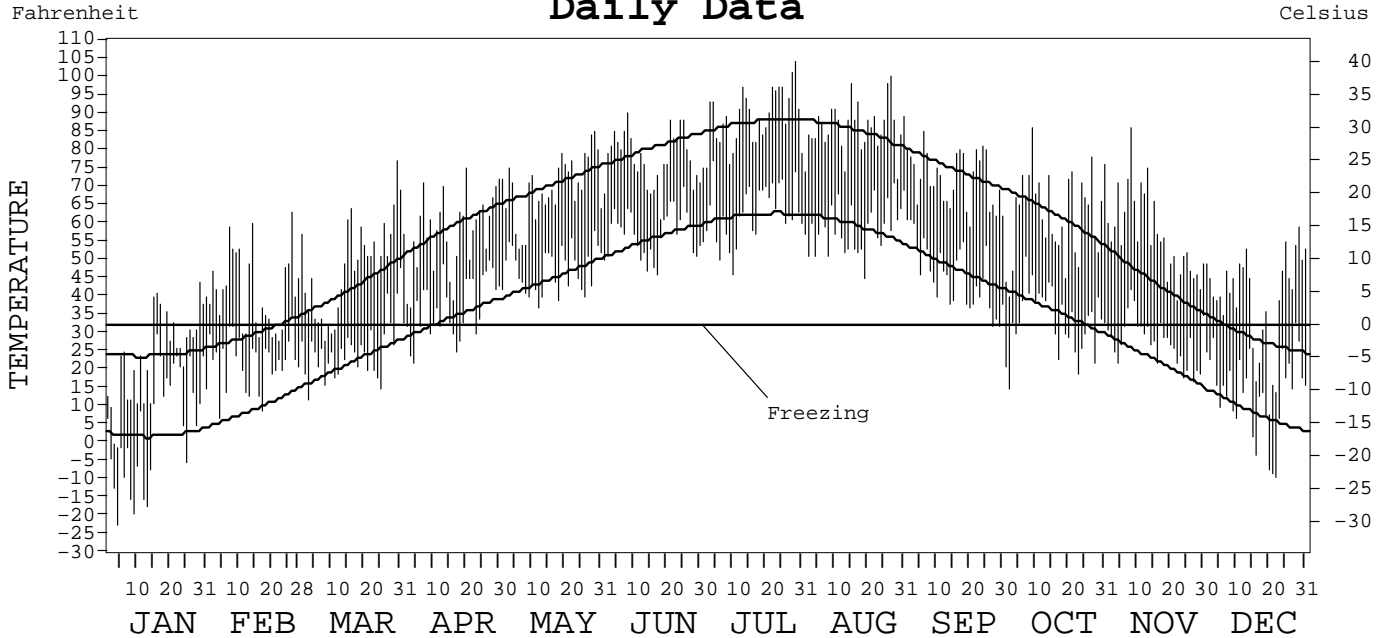
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4705

HURON,
SOUTH DAKOTA (HON)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

HURON, SD (HON)

LATITUDE: 44° 23' 07" N LONGITUDE: 98° 13' 44" W ELEVATION (FT): GRND: 1282 BARO: 1282 TIME ZONE: CENTRAL (UTC + 6) WBAN: 14936

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	24.1	41.6	48.3	57.8	69.7	77.7	88.5	86.0	72.0	62.5	56.8	39.6	60.4	
	HIGHEST DAILY MAXIMUM	44	63	77	75	85	90	104	100	85	86	86	59	104	
	DATE OF OCCURRENCE	29	26	30	20	29	08	29	27	06	09	08	29	JUL 29	
	MEAN DAILY MINIMUM	5.2	22.3	25.4	37.0	47.1	57.1	62.6	58.7	45.6	33.6	27.8	14.3	36.4	
	LOWEST DAILY MINIMUM	-22	7	12	22	37	46	46	45	32	15	17	-9	-22	
	DATE OF OCCURRENCE	04	04	03	04	12	17	10	19	29+	02	27	22	JAN 04	
	AVERAGE DRY BULB	14.7	32.0	36.9	47.4	58.4	67.4	75.6	72.4	58.8	48.1	42.3	27.0	48.4	
	MEAN WET BULB	14.3	28.9	32.6	42.7	54.1	62.2		65.8	53.2	41.9	35.7	24.6		
	MEAN DEW POINT	10.3	24.5	26.3	37.6	50.2	58.6		62.2	48.6	35.4	28.2	19.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	15	6	0	0	0	0	0	22
	MAXIMUM ≤ 32°	23	7	4	0	0	0	0	0	0	0	0	7	41	
	MINIMUM ≤ 32°	31	27	27	10	0	0	0	0	2	12	25	30	164	
	MINIMUM ≤ 0°	13	0	0	0	0	0	0	0	0	0	0	4	17	
H/C	HEATING DEGREE DAYS	1553	920	868	518	209	45	3	205	518	672	1172	6686		
	COOLING DEGREE DAYS	0	0	0	0	13	124	336	240	27	1	0	741		
RH	MEAN (PERCENT)	80	76	69	72	75	74	74	73	73	67	64	74	73	
	HOUR 00 LST	81	82	79	81	85	85	86	86	85	76	74	77	81	
	HOUR 06 LST	83	83	84	86	91	89	91	94	91	84	79	82	86	
	HOUR 12 LST	77	70	56	62	62	62	60	56	55	52	49	65	60	
	HOUR 18 LST	81	70	55	60	60	61	57	57	60	57	56	70	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	0	0	0	1	0	3	2	1	2	1	2	13	
	THUNDERSTORMS	0	0	0	4	5	6	10	4	4	0	0	0	33	
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.)	28.68	28.55	28.69	28.59	28.48	28.54		28.60	28.61	28.69	28.68	28.65		
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	29.96	30.09	29.98	29.85	29.89		29.95	29.97	30.08	30.07	30.07		
WINDS	RESULTANT SPEED (MPH)	1.5	1.3	2.8	4.0	0.3	3.9		1.9	2.8	1.4	1.5	3.1		
	RES. DIR. (TENS OF DEGS.)	32	23	15	05	32	16		09	29	29	25	30		
	MEAN SPEED (MPH)	10.6	12.5	11.2	11.8	11.6	9.7	8.7	9.3	9.9	9.3	9.1	10.3		
	PREVAIL. DIR. (TENS OF DEGS.)	15	15	16	36	15	16	15	16	31	16	15	32		
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	38	38	52	38	41	32	45	30	33	37	44	34		
	DIR. (TENS OF DEGS.)	32	34	33	35	32	12	29	33	30	34	32	02		
	DATE OF OCCURRENCE	17	11	17	16	05	08	30	12	25	27	01	27+		
	MAR 17														
	MAXIMUM 5-SECOND WIND:														
SPEED (MPH)	47	46	62	45	48	40	57	37	45	47	51	43			
DIR. (TENS OF DEGS.)	33	34	32	36	33	11	30	29	28	34	31	32			
DATE OF OCCURRENCE	17	11+	17	16	05	08	30	12	25	27	01	19			
MAR 17															
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.41	0.23	0.25	3.24	2.87	3.00	1.30	2.56	2.10	0.70	0.05	0.10		
	GREATEST 24-HOUR (IN.)	0.11	0.07	0.08	0.76	0.96	1.07	0.37	1.49	1.21	0.47	0.03	0.06		
	DATE OF OCCURRENCE	15+	19	28+	10	04	04-05	18+	29-30	03-04	01	21	14		
	AUG 29-30														
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	6	5	5	11	12	15	9	8	6	7	2	3			
PRECIPITATION ≥ 0.10	2	0	0	7	6	8	4	4	4	1	0	0			
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	1	0	0	0	0			
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	11.3	4.7	1.6	0.2	0.0	0.0	0.0	0.0	0.0	4.8	T	2.6		
	GREATEST 24-HOUR (IN.)	5.0	1.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	4.6	T	1.3		
	DATE OF OCCURRENCE	01	22	08	10						01	19+	16		
	JAN 01														
	MAXIMUM SNOW DEPTH (IN.)	7	3	1	0	0	0	0	0	0	3	T	2		
DATE OF OCCURRENCE	15+	23	12+							02	19+	20+			
JAN 15+															
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	3	2	0	0	0	0	0	0	0	1	0	1			

NORMALS, MEANS, AND EXTREMES

HURON, SD (HON)

LATITUDE: 44° 23' 07" N LONGITUDE: 98° 13' 44" W ELEVATION (FT): GRND: 1282 BARO: 1282 TIME ZONE: CENTRAL (UTC + 6) WBAN: 14936

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	24.1	29.7	42.1	58.6	70.4	80.3	87.1	84.8	74.2	61.5	43.0	28.3	57.0
	MEAN DAILY MAXIMUM	14	23.3	29.5	40.9	57.8	69.6	79.1	86.0	84.2	75.1	61.7	43.4	31.1	56.8
	HIGHEST DAILY MAXIMUM	58	63	71	89	97	99	109	112	110	106	102	86	66	112
	YEAR OF OCCURRENCE		1944	1958	1943	1980	1959	1988	1966	1965	1970	1963	1999	1998	JUL 1966
	MEAN OF EXTREME MAXS.	14	47.2	51.5	68.5	80.7	88.0	94.3	99.6	98.2	93.8	83.8	66.7	53.3	77.1
	NORMAL DAILY MINIMUM	30	2.3	9.1	21.7	34.0	44.8	55.5	61.7	58.8	47.3	35.4	21.8	7.8	33.3
	MEAN DAILY MINIMUM	14	2.8	9.4	20.6	34.3	45.4	55.5	61.1	58.8	48.3	36.0	21.9	10.6	33.7
	LOWEST DAILY MINIMUM	58	-37	-41	-24	-2	17	32	37	36	19	9	-21	-30	-41
	YEAR OF OCCURRENCE		1988	1994	1960	1975	1976	1964	1971	1964	1974	1976	1964	1990	FEB 1994
	MEAN OF EXTREME MINS.	14	-22.4	-15.2	-3.8	17.7	30.2	41.5	48.0	45.1	31.0	19.1	2.6	-12.4	15.1
	NORMAL DRY BULB	30	13.2	19.4	31.9	46.3	57.6	67.9	74.4	71.8	60.8	48.5	32.4	18.1	45.2
	MEAN DRY BULB	14	12.9	19.5	30.7	46.0	57.6	67.3	73.6	71.6	61.7	48.9	32.6	20.8	45.3
	MEAN WET BULB	15	15.1	20.3	29.6	40.7	53.0	61.4	65.1	64.1	54.4	42.1	27.7	17.7	40.9
	MEAN DEW POINT	15	10.5	15.5	24.3	33.7	47.5	56.7	60.8	60.0	49.2	35.7	22.4	13.2	35.8
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	0.6	4.6	12.1	9.6	3.0	0.2	0.0	0.0	30.4	
MAXIMUM ≤ 32°	30	20.2	15.0	6.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	6.2	18.3	67.0	
MINIMUM ≤ 32°	30	30.8	27.1	25.8	13.6	2.5	*	0.0	0.0	1.5	11.7	26.0	30.8	169.8	
MINIMUM ≤ 0°	30	14.0	8.5	2.0	*	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.0	34.7	
H/C	NORMAL HEATING DEG. DAYS	30	1606	1277	1026	561	256	48	10	22	173	512	978	1454	7923
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	27	135	302	232	47	0	0	0	743
RH	NORMAL (PERCENT)	30	71	74	73	66	66	68	66	67	68	67	73	74	69
	HOUR 00 LST	30	74	78	80	76	76	80	78	78	78	75	78	77	77
	HOUR 06 LST	30	74	78	83	83	84	86	86	88	87	81	81	78	82
	HOUR 12 LST	30	67	68	65	54	54	55	52	52	53	54	63	68	59
	HOUR 18 LST	30	70	70	64	51	51	52	48	48	52	56	68	73	59
S	PERCENT POSSIBLE SUNSHINE	54	57	59	59	61	65	70	76	74	69	63	50	49	63
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	60	1.6	2.0	2.1	0.7	0.8	0.4	0.8	1.1	1.1	1.1	1.4	2.2	15.3
	THUNDERSTORMS	60	0.0	0.0	0.4	2.4	5.4	8.5	9.4	7.7	3.9	1.4	0.1	0.0	39.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	53	5.2	5.3	5.6	5.3	5.0	4.5	3.8	3.7	4.0	4.4	5.3	5.3	4.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.8	5.0	5.0	5.0	4.7	4.3	3.7	3.6	3.6	4.2	5.0	4.7	4.5
	MEAN NO. DAYS WITH:														
	CLEAR	57	7.9	6.5	6.0	6.5	7.5	8.7	11.9	12.2	11.5	10.5	6.7	7.4	103.3
PARTLY CLOUDY	57	7.5	7.7	7.7	8.7	9.7	11.0	11.9	11.0	8.2	8.3	7.4	7.2	106.3	
CLOUDY	57	15.6	14.1	17.4	14.9	13.9	10.3	6.7	7.4	9.8	11.7	15.9	16.3	154.0	
PR	MEAN STATION PRESSURE (IN)	26	28.70	28.68	28.60	28.60	28.50	28.50	28.60	28.60	28.60	28.60	28.61	28.71	28.61
	MEAN SEA-LEVEL PRES. (IN)	15	30.11	30.11	30.04	29.94	29.90	30.00	29.92	29.95	29.97	30.00	30.04	30.13	30.01
WINDS	MEAN SPEED (MPH)	43	11.4	11.4	12.6	13.2	12.4	11.2	10.4	10.3	11.0	11.2	11.7	11.2	11.5
	PREVAIL. DIR (TENS OF DEGS)	20	32	16	15	36	15	15	15	15	15	16	15	32	15
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	44	38	52	57	41	43	45	59	44	41	48	45	59
	DIR. (TENS OF DEGS)		35	34	33	32	32	34	29	30	31	31	34	31	30
	YEAR OF OCCURRENCE		1997	1999	1999	1997	1999	1998	1999	1998	1997	1997	1997	1997	AUG 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	49	46	62	70	55	58	57	83	60	53	61	56	83	
DIR. (TENS OF DEGS)		34	34	32	31	21	33	30	29	32	19	34	32	29	
YEAR OF OCCURRENCE		1997	1999	1999	1997	1998	1998	1999	1998	1997	1997	1997	1997	AUG 1998	
PRECIPITATION	NORMAL (IN)	30	0.41	0.68	1.66	2.09	2.87	3.35	2.67	1.97	1.72	1.47	0.72	0.47	20.08
	MAXIMUM MONTHLY (IN)	60	1.93	3.87	5.89	5.59	7.69	11.49	6.69	5.47	4.03	6.44	3.01	1.53	11.49
	YEAR OF OCCURRENCE		1975	1962	1977	1991	1962	1984	1993	1956	1986	1946	1947	1968	JUN 1984
	MINIMUM MONTHLY (IN)	60	0.02	0.03	0.12	0.21	0.33	0.67	0.42	0.14	0.10	T	T	T	T
	YEAR OF OCCURRENCE		1990	1968	1939	1996	1992	1950	1941	1976	1998	1952	1990	1986	NOV 1990
	MAXIMUM IN 24 HOURS (IN)	60	1.58	2.16	2.82	2.40	3.74	5.48	4.98	4.15	2.60	4.20	2.00	1.24	5.48
	YEAR OF OCCURRENCE		1944	1962	1985	1970	1990	1967	1986	1956	1950	1961	1972	1949	JUN 1967
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	5.9	6.4	8.2	9.2	10.4	10.2	9.1	8.0	7.1	5.6	5.4	5.8	91.3	
PRECIPITATION ≥ 1.00	30	0.0	0.1	0.2	0.3	0.6	0.8	0.6	0.2	0.4	0.3	0.1	0.0	3.6	
SNOWFALL	NORMAL (IN)	30	7.1	8.7	10.1	2.2	0.1	0.0	0.0	0.0	T	1.0	4.8	7.2	41.2
	MAXIMUM MONTHLY (IN)	59	27.7	39.9	33.9	23.4	1.6	T	T	T	T	10.7	32.7	26.0	39.9
	YEAR OF OCCURRENCE		1975	1962	1975	1995	1954	1994	1996	1996	1995	1995	1985	1968	FEB 1962
	MAXIMUM IN 24 HOURS (IN)	59	12.3	17.5	18.3	8.9	1.6	T	T	T	T	8.6	12.0	10.7	18.3
	YEAR OF OCCURRENCE		1982	1962	1985	1957	1954	1994	1995	1995	1995	1995	1998	1955	MAR 1985
	MAXIMUM SNOW DEPTH (IN)	106	100	28	27	16	1	0	0	0	1	6	16	20	100
	YEAR OF OCCURRENCE		1916	1962	1962	1995	1954				1912	1995	1985	1985	JAN 1916
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.3	2.4	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.3	1.5	2.1	11.9	

PRECIPITATION (inches) 1999 HURON, SD (HON)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.29	0.08	2.10	4.69	2.62	3.33	3.45	0.61	1.49	1.44	1.66	0.44	22.20
1971	0.18	0.99	0.15	2.22	1.99	2.87	0.91	1.85	1.78	3.16	2.04	0.41	18.55
1972	0.43	0.65	1.21	3.80	6.86	1.25	4.93	0.69	0.30	2.66	2.44	1.24	26.46
1973	0.74	0.42	2.16	1.17	2.04	0.82	2.11	1.61	2.69	2.12	0.94	0.56	17.38
1974	0.10	0.68	1.62	1.07	4.26	2.00	1.29	1.26	0.15	0.49	0.08	0.03	13.03
1975	1.93	0.21	2.71	3.31	1.98	3.44	0.46	2.50	0.82	0.81	0.15	0.06	18.38
1976	0.64	0.63	0.73	1.10	0.62	1.97	2.05	0.14	1.43	1.26	0.01	0.39	10.97
1977	0.18	1.73	5.89	2.13	1.83	1.31	1.50	2.57	2.29	1.59	1.60	0.52	23.14
1978	0.13	0.49	0.35	3.11	3.66	2.20	2.49	1.81	0.99	0.13	0.27	0.26	15.89
1979	0.89	0.29	1.96	2.23	1.64	2.37	2.61	1.50	0.23	1.97	0.22	0.04	15.95
1980	0.25	0.49	0.81	0.82	1.68	5.31	3.21	3.94	0.53	0.91	0.08	0.12	18.15
1981	0.12	0.12	1.90	0.24	0.68	1.48	2.24	4.63	1.39	1.28	1.20	0.51	15.79
1982	1.36	0.17	1.60	1.29	4.58	1.25	5.10	2.85	2.32	3.49	0.60	0.43	25.04
1983	0.08	0.21	2.34	1.14	1.37	4.62	2.22	0.45	2.55	1.27	1.81	0.48	18.54
1984	0.36	0.69	1.50	2.83	2.52	11.49	1.81	3.55	0.94	3.36	0.13	0.55	29.73
1985	0.40	0.10	3.86	1.57	2.03	2.36	4.67	2.57	3.28	1.06	2.46	0.59	24.95
1986	0.41	0.43	1.56	5.08	3.15	2.50	6.44	2.84	4.03	0.42	0.52	T	27.38
1987	0.19	1.16	4.78	0.42	2.34	1.54	2.19	2.98	1.36	0.42	0.74	1.28	19.40
1988	0.39	0.53	0.88	2.06	5.58	0.77	1.44	2.13	3.69	0.09	0.99	0.65	19.20
1989	0.21	0.81	2.17	1.59	1.00	3.19	1.14	1.25	1.62	0.26	1.05	0.21	14.50
1990	0.02	0.61	1.31	1.92	6.28	6.34	3.51	0.72	0.57	1.27	T	0.43	22.98
1991	0.08	0.92	0.62	5.59	3.72	5.72	1.76	1.18	1.94	0.98	0.81	0.08	23.40
1992	0.71	1.18	0.86	2.10	0.33	5.43	4.86	2.78	2.57	0.39	0.97	0.31	22.49
1993	0.32	0.55	1.57	3.18	3.32	7.12	6.69	2.39	1.74	0.63	1.78	0.72	30.01
1994	0.93	0.70	0.27	2.75	1.67	5.12	2.95	1.27	1.92	2.02	0.61	0.57	20.78
1995	0.48	0.23	3.25	5.31	6.40	2.20	2.87	3.19	2.89	2.33	0.54	0.28	29.97
1996	1.00	0.36	0.61	0.21	4.75	1.78	1.83	2.41	3.69	3.36	0.25	0.26	20.51
1997	0.93	0.50	0.16	2.70	2.38	3.08	6.30	1.42	3.87	2.58	0.07	0.22	24.21
1998	0.45	0.51	2.53	1.91	4.06	3.02	1.82	1.80	T	5.12	1.89	0.21	23.32
1999	0.41	0.23	0.25	3.24	2.87	3.00	1.30	2.56	2.10	0.70	0.05	0.10	16.81
POR= 118 YRS	0.51	0.60	1.16	2.16	2.78	3.52	2.60	2.09	1.63	1.35	0.61	0.50	19.51

WBAN : 14936

AVERAGE TEMPERATURE (°F) 1999 HURON, SD (HON)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	6.5	22.5	27.4	43.6	58.1	68.2	74.8	73.7	63.2	48.1	33.0	15.1	44.5
1971	7.6	15.7	28.5	45.4	54.3	71.4	69.4	74.0	60.0	49.4	33.3	16.8	43.8
1972	9.6	12.9	31.5	44.8	60.0	66.1	69.7	70.6	60.5	44.8	31.5	15.4	43.1
1973	18.9	23.9	39.8	45.5	56.2	67.0	72.1	75.5	58.0	52.6	31.6	16.5	46.5
1974	13.1	24.4	34.2	47.9	54.2	66.0	79.2	69.0	58.4	51.5	33.0	23.1	46.2
1975	16.7	15.7	24.9	39.8	59.0	67.0	78.6	73.6	57.9	50.8	32.6	21.4	44.8
1976	14.5	28.3	31.1	48.1	55.0	69.2	74.7	75.2	61.5	42.1	25.4	16.1	45.1
1977	5.3	25.4	33.9	52.8	65.4	70.2	76.7	67.5	61.9	48.4	31.3	15.5	46.2
1978	0.3	7.1	29.3	44.0	57.5	65.9	70.7	71.2	66.1	47.4	29.1	14.5	41.9
1979	0.3	6.1	28.3	42.4	53.1	68.9	75.2	69.8	63.9	46.2	31.6	28.8	42.9
1980	16.9	18.5	29.7	49.1	60.3	68.5	73.4	70.6	61.7	46.5	37.0	22.0	46.2
1981	22.1	25.6	36.3	52.6	57.8	69.4	77.5	72.2	63.6	49.3	39.7	17.9	48.7
1982	3.5	18.9	33.2	44.5	59.6	63.6	75.4	72.7	61.2	49.0	31.4	26.3	44.9
1983	25.6	30.1	35.0	42.4	54.3	66.3	76.5	78.9	63.1	49.5	34.0	2.8	46.5
1984	18.8	31.1	29.3	47.1	55.8	67.2	74.0	74.5	56.9	49.2	35.4	18.1	46.5
1985	13.2	20.2	37.2	51.6	62.0	63.2	72.5	66.9	58.3	47.0	18.7	8.6	43.3
1986	19.3	14.6	37.3	45.3	57.2	69.1	73.6	67.0	58.9	48.8	28.4	26.9	45.5
1987	24.9	33.3	36.1	53.6	64.6	71.1	75.7	68.7	62.2	44.3	37.1	24.5	49.7
1988	8.7	14.9	35.0	46.2	63.5	75.3	76.7	73.4	61.2	45.3	33.3	22.0	46.3
1989	23.3	7.7	26.6	47.4	56.5	65.7	76.2	73.2	61.6	49.0	30.7	11.0	44.1
1990	28.3	24.2	37.4	45.4	56.8	68.6	71.4	72.7	66.5	47.4	36.3	14.4	47.5
1991	12.8	29.7	35.8	48.9	61.0	73.4	73.5	74.1	61.5	46.4	27.0	26.3	47.5
1992	26.4	29.8	37.2	44.6	59.3	65.3	65.1	65.6	59.7	47.3	30.9	17.6	45.7
1993	14.5	14.2	31.3	44.7	57.1	64.1	69.9	70.3	56.2	45.7	29.6	20.5	43.2
1994	4.3	10.5	36.1	46.0	61.5	68.6	69.1	68.2	63.6	50.9	35.8	20.1	44.6
1995	16.1	23.0	32.3	40.5	54.9	69.0	73.0	74.1	60.1	45.8	28.4	21.9	44.9
1996	8.8	21.3	25.0	43.1	54.6	68.6	69.7	71.7	60.8	47.6	23.1	9.8	42.0
1997	8.5	18.4	29.8	41.6	54.6	70.2	73.2	71.1	63.9	51.1	29.1	28.7	45.0
1998	18.2	32.2	27.5	48.9	62.1	65.2	74.8	73.9	67.4	51.2	36.1	25.6	48.6
1999	14.7	32.0	36.9	47.4	58.4	67.4	75.6	72.4	58.8	48.1	42.3	27.0	48.4
POR= 118 YRS	12.9	17.5	30.6	46.0	57.3	67.3	73.3	71.3	61.4	48.6	31.9	19.3	44.8

HEATING DEGREE DAYS (base 65°F) 1999 HURON, SD (HON)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	7	2	181	522	952	1541	1777	1375	1127	579	325	16	8404
1971-72	32	8	211	478	946	1486	1714	1510	1032	600	210	57	8284
1972-73	26	38	171	621	997	1530	1428	1144	776	578	271	31	7611
1973-74	5	0	227	380	995	1499	1607	1131	948	506	346	73	7717
1974-75	1	36	218	414	954	1293	1489	1373	1239	756	195	67	8035
1975-76	4	3	236	447	966	1346	1561	1057	1043	502	306	39	7510
1976-77	5	4	173	706	1181	1514	1849	1101	958	374	61	12	7938
1977-78	0	27	129	506	1002	1530	2007	1620	1099	624	247	89	8880
1978-79	12	27	132	539	1070	1560	2006	1647	1130	668	374	35	9200
1979-80	0	32	122	574	997	1117	1485	1343	1088	489	193	29	7469
1980-81	1	19	160	578	835	1326	1322	1098	882	376	243	12	6852
1981-82	5	1	105	480	752	1456	1908	1287	976	609	173	85	7837
1982-83	0	19	168	489	1002	1193	1215	970	923	673	329	83	7064
1983-84	2	0	166	473	924	1926	1430	978	1101	528	294	36	7858
1984-85	4	7	277	493	883	1448	1598	1250	856	403	141	123	7483
1985-86	7	46	267	553	1383	1746	1412	1405	855	584	244	20	8522
1986-87	0	55	191	496	1091	1174	1235	881	889	354	96	20	6482
1987-88	7	53	118	635	828	1248	1744	1449	924	556	117	1	7680
1988-89	3	26	151	603	946	1326	1284	1601	1182	529	262	83	7996
1989-90	0	11	182	491	1024	1674	1131	1138	848	611	258	37	7405
1990-91	7	9	124	543	855	1564	1614	981	898	477	203	0	7275
1991-92	4	0	192	580	1131	1192	1191	1015	855	617	217	62	7056
1992-93	43	79	177	544	1021	1463	1561	1421	1037	602	243	86	8277
1993-94	3	25	274	593	1054	1371	1884	1521	889	568	177	25	8384
1994-95	12	37	132	429	871	1385	1508	1171	1005	728	308	51	7637
1995-96	9	3	211	590	1091	1331	1741	1265	1234	649	337	40	8501
1996-97	7	0	200	533	1252	1706	1745	1299	1083	698	320	7	8850
1997-98	19	13	99	447	1070	1122	1442	916	1157	476	135	88	6984
1998-99	0	0	71	422	860	1213	1553	920	868	518	209	45	6679
1999-	3	3	205	518	672	1172							

WBAN : 14936

COOLING DEGREE DAYS (base 65°F) 1999 HURON, SD (HON)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	18	143	320	279	136	4	0	0	900
1971	0	0	0	0	1	217	175	293	69	0	0	0	755
1972	0	0	0	0	62	94	181	222	46	0	0	0	605
1973	0	0	0	0	4	98	233	331	22	3	0	0	691
1974	0	0	0	0	18	109	448	166	29	1	0	0	771
1975	0	0	0	4	17	136	432	276	33	12	0	0	910
1976	0	0	0	0	2	170	313	328	75	3	0	0	891
1977	0	0	0	14	79	176	369	113	44	0	0	0	795
1978	0	0	0	0	21	119	196	227	173	0	0	0	736
1979	0	0	0	0	13	162	324	188	96	0	0	0	783
1980	0	0	0	18	56	139	269	199	66	10	0	0	757
1981	0	0	0	9	25	153	399	232	70	0	0	0	888
1982	0	0	0	0	14	50	329	263	57	0	0	0	713
1983	0	0	0	0	4	130	366	437	113	0	0	0	1050
1984	0	0	0	0	13	107	291	306	41	9	0	0	767
1985	0	0	0	7	55	73	246	112	71	0	0	0	564
1986	0	0	0	0	8	152	272	122	16	0	0	0	570
1987	0	0	0	20	92	209	342	173	41	0	0	0	877
1988	0	0	0	3	78	316	374	292	45	0	0	0	1108
1989	0	0	0	9	4	110	354	274	87	4	0	0	842
1990	0	0	0	28	9	154	211	257	174	6	0	0	839
1991	0	0	0	1	85	260	275	289	93	11	0	0	1014
1992	0	0	0	10	48	77	52	105	25	3	0	0	320
1993	0	0	0	0	7	66	163	197	14	1	0	0	448
1994	0	0	0	5	74	140	145	142	98	0	0	0	604
1995	0	0	0	0	1	177	263	293	69	2	0	0	805
1996	0	0	0	0	24	155	160	214	81	3	0	0	637
1997	0	0	0	0	6	167	277	208	74	25	0	0	757
1998	0	0	0	1	53	101	310	283	148	0	0	0	896
1999	0	0	0	0	13	124	336	240	27	1	0	0	741

SNOWFALL (inches) 1999 HURON, SD (HON)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	5.3	1.9	7.8	4.6	16.0	1.9	T	0.0	0.0	37.5
1971-72	0.0	0.0	0.0	3.8	11.8	10.4	5.3	13.5	0.9	1.0	0.0	0.0	46.7
1972-73	0.0	0.0	0.0	1.3	10.9	13.8	10.7	6.2	0.1	T	T	0.0	43.0
1973-74	0.0	0.0	0.0	T	6.1	10.6	1.4	8.0	6.0	T	0.0	0.0	32.1
1974-75	0.0	0.0	0.0	0.0	2.0	1.3	27.7	5.9	33.9	0.7	0.0	0.0	71.5
1975-76	0.0	0.0	0.0	T	2.9	1.6	10.9	6.6	13.0	T	T	0.0	35.0
1976-77	0.0	0.0	0.0	7.3	0.4	5.8	3.5	9.8	9.1	0.3	0.0	0.0	36.2
1977-78	0.0	0.0	0.0	T	7.8	6.5	4.2	9.0	4.8	0.8	0.0	0.0	33.1
1978-79	0.0	0.0	0.0	0.0	3.5	5.9	23.8	5.9	2.6	4.0	T	0.0	45.7
1979-80	0.0	0.0	0.0	2.5	3.2	0.4	1.5	6.0	8.6	T	0.0	0.0	22.2
1980-81	0.0	0.0	0.0	1.5	0.8	3.0	1.6	2.3	1.2	T	0.0	0.0	10.4
1981-82	0.0	0.0	0.0	0.1	8.0	7.4	23.8	1.8	9.5	9.1	0.0	0.0	59.7
1982-83	0.0	0.0	0.0	2.7	2.1	4.4	0.7	0.5	11.8	5.1	0.0	0.0	27.3
1983-84	0.0	0.0	0.0	0.0	16.9	6.9	4.3	6.8	19.1	T	0.0	0.0	54.0
1984-85	0.0	0.0	0.0	T	0.2	8.1	5.5	1.8	26.7	2.0	0.0	0.0	44.3
1985-86	0.0	0.0	0.0	T	32.7	11.8	6.3	4.8	7.0	4.0	0.0	0.0	66.6
1986-87	0.0	0.0	0.0	0.0	5.6	T	2.4	6.7	7.0	T	0.0	0.0	21.7
1987-88	0.0	0.0	0.0	T	1.0	20.0	7.3	7.3	11.1	3.2	0.0	0.0	49.9
1988-89	0.0	0.0	0.0	0.0	5.0	11.2	3.0	14.9	26.6	0.4	0.2	0.0	61.3
1989-90	0.0	0.0	0.0	0.0	3.7	3.6	0.2	14.1	1.1	2.3	0.0	T	25.0
1990-91	0.0	0.0	0.0	1.8	T	7.4	1.9	13.0	6.3	1.2	T	0.0	31.6
1991-92	0.0	0.0	0.0	T	4.9	0.1	4.0	12.1	0.7	1.2	0.0	T	23.0
1992-93	T	0.0	0.0	0.4	7.9	4.7	5.8	11.7	8.1	2.7	0.0	T	41.3
1993-94	0.0	T	0.0	T	13.4	12.1	18.2	10.3	2.2	8.3	0.0	T	64.5
1994-95	0.0	0.0	0.0	0.0	5.0	8.0	7.8	3.7	10.8	23.4	0.0	0.0	58.7
1995-96	T	T	T	10.7	7.4	4.1	18.7	8.5	10.0	1.4	0.0	0.0	60.8
1996-97	T	T	0.0	0.0						9.9	0.0	T	
1997-98	T	0.0	T	T	2.4	1.7	10.0	5.2	18.0	T	T	T	37.3
1998-99	0.0	0.0	0.0	0.0	14.7	5.2	11.3	4.7	1.6	0.2	0.0	0.0	37.7
1999-	0.0	0.0	0.0	4.8	T	2.6							
POR= 58 YRS	T	T	T	1.0	5.3	6.2	7.2	8.5	9.1	2.8	0.1	T	40.2

WBAN : 14936

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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999
HURON,
SOUTH DAKOTA (HON)

Located on the west bank of the James River at about the middle of the river valley, Huron has a climate that can be classified as continental with frequent daily temperature fluctuations and distinct seasons. The seasons have varied quite markedly from year to year. Agriculture is the main industry in the area.

Winter is characteristically cold and dry with storms of short duration. Normal temperatures for the season are in the middle teens and precipitation is mainly in the form of snow. Seasonal snowfall has varied from under 9 inches to over 75 inches. Wintertime storms of blizzard proportions are infrequent, but they do occur. These blizzards are characterized by strong winds, low temperatures, snow, and very poor visibility. Many mild days can be expected during the winter since about 39 percent of the daily maximum temperatures are above the freezing mark.

Spring is characterized by marked upward trends in both precipitation and temperature with the moisture amounts increasing some three to four fold over winter. Nearly one-third, over 5 inches, of the annual total precipitation usually falls during the spring months. In early spring some of the precipitation falls as snow. As a consequence, the month of March has a slightly higher snowfall average than any of the winter months.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 29 and the average last occurrence in the spring is May 11.

Summers are hot but not extreme. Temperatures of 100 degrees or higher usually occur three or four times a year, but nights are normally cool and comfortable. Summertime precipitation is mainly in the form of showers and thunderstorms. Hail occurs about three times a year in the summertime thunderstorms. Sunshine also reaches its maximum during the summer months, when the sun shines during more than 70 percent of the daylight hours.

Autumn, with a relatively slow drop in temperature and steadily lessening amounts of rainfall, is a delightful season with mildly warm days, cool nights, and plentiful sunshine.

The terrain around Huron is exceptionally level and flat. Even the James River has a slope of only 4 to 6 inches per mile. However, floods in the Huron area have generally been of minor importance because the flood plain is agricultural land, and is not developed for homes or businesses. Heavy rains from summertime thunderstorms may, at times, cause some local flooding problems in the city. Moderate to fresh winds occur quite frequently during the daytime in all seasons of the year. Winds are normally from the north in the winter and from the south in the summer. The unusually level terrain helps to accentuate this tendency toward windy days.

STATION LOCATION

HURON, SOUTH DAKOTA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATED	* Type	REMARKS	
						SEA LEVEL	GROUND												
							WIND	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON				EMERSON
CITY Parker Building 32 Third Street, SW	7/01/81	8/31/85		44° 22'	98° 13'		39	17	17									Thermometers exposed outside of window.	
Opera House Building 28 Third Street, SW	9/01/85	4/30/91	20 ft. E	44° 22'	98° 13'	1285	52	48	48										
Alliance Building 378 Dakota Ave., South	5/01/91	3/21/97	400 ft. SE	44° 22'	98° 13'		72	63	63									Building burned 3/22/97.	
Jeffries Block Building 337 Dakota Ave., South	3/22/97	2/15/14	100 ft. NW	44° 22'	98° 13'		67	56	56		52							Tipping bucket in use 3/22/05.	
Post Office Building 410 Dakota Ave., South	2/16/14	6/29/62	130 ft. SE	44° 22'	98° 13'	1277	74	59	59		53							Live chimney 50 ft. SSE of instrument shelter. 7-story building erected within 200 ft. NNW in 1921. Observations and equipment moved to airport 2/21/39.	
AIRPORT Administration Building W.W. Howes Municipal Airport 1.6 mi. NNW of Post Office	1/01/33	3/11/68		44° 23'	98° 13'	1282	a20	b6	c6		d4	d4		3	e4			Daytime observations only to 2/22/38. a - 41 feet to 6/10/62. b - 27 feet to 5/7/42. c - 26 feet to 5/7/42. d - Installed 2/21/39 for consolidation of observational programs. e - Commissioned 2050 feet NW of thermometer site 1/1/60.	
WB-FAA Building W.W. Howes Municipal Airport + +Regional Airport effective 7/1977.	3/11/68	11/01/96	350 ft. SE	44° 23'	98° 13'	1281	20	hs5	hs5	24	j19	3	5	4	f4	NA		f - Continued on original site. s - Standby equipment. g - Moved 325 ft. W 5/17/78. h - Moved 305 ft. W 5/17/78. i - Moved 10' NNE 5/17/78. j - Relocated 1/21/83. k - type change 5/29/85.	
Huron Regional AP	11/01/96	Present	NA	44°23'	98°14'	1282										S		ASOS Commissioned 11/01/96	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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