

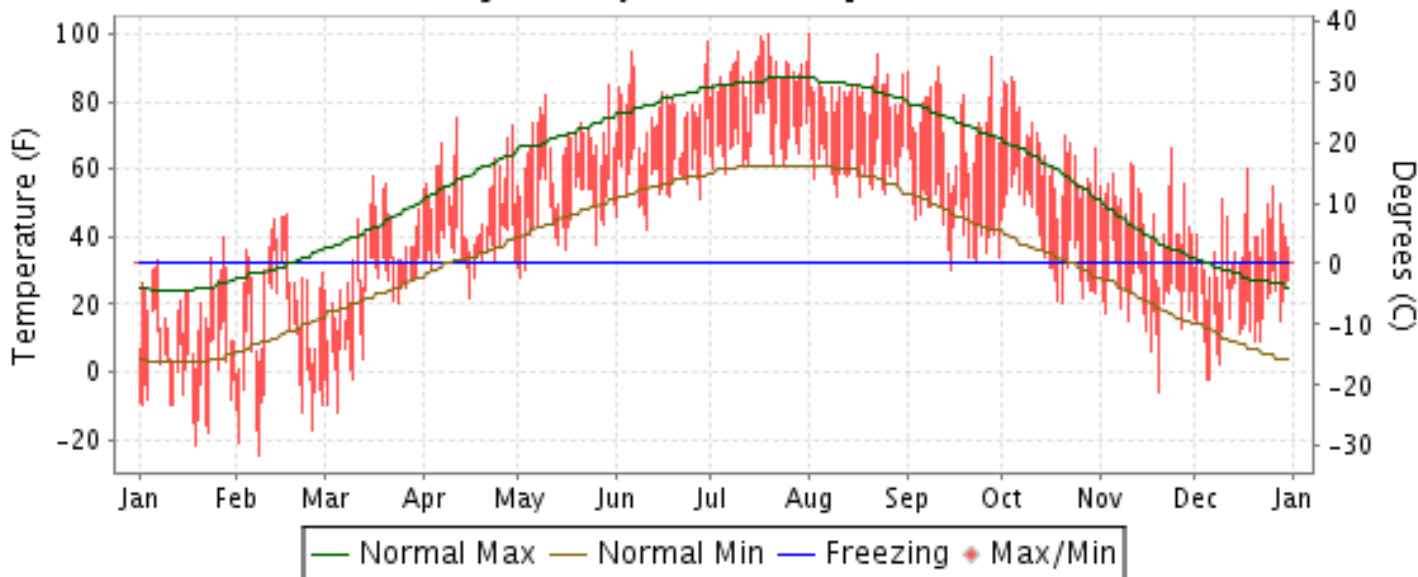


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

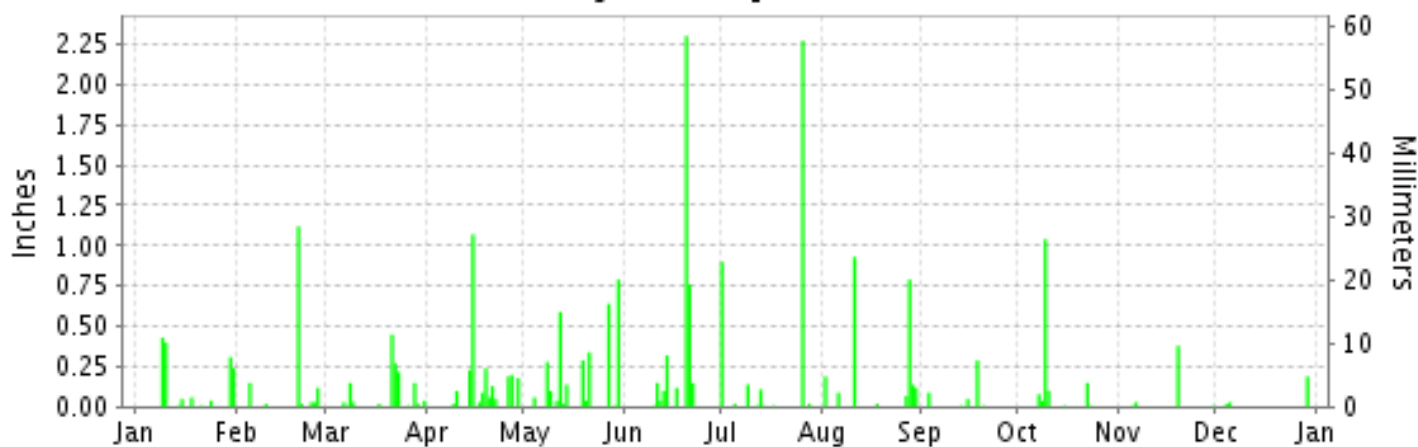
ISSN 0198-4705

## HURON, SOUTH DAKOTA (KHON)

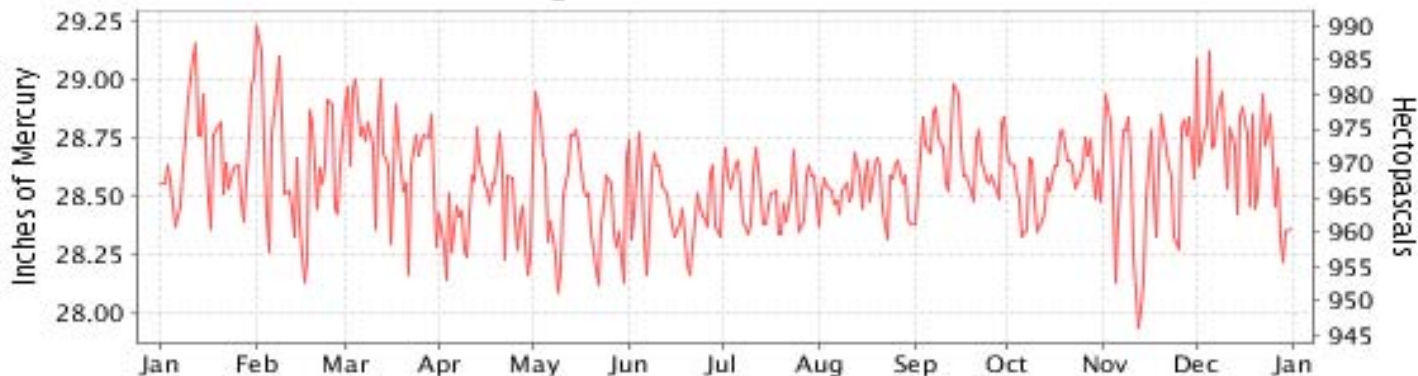
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## HURON (KHON)

LATITUDE: 44° 23'N      LONGITUDE: -98° 13'W      ELEVATION (FT): GRND: 1280 BARO: 1284      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	18.9	24.4	34.6	53.5	66.8	77.7	89.0	83.1	74.0	65.9	47.4	38.0	56.1	
	HIGHEST DAILY MAXIMUM	40	47	58	75	85	98	100	100	93	87	66	60	100	
	DATE OF OCCURRENCE	28	17	16	12	30	30	19	01	28	04	24	18	AUG 01	
	MEAN DAILY MINIMUM	-1.0	4.6	18.0	36.0	46.4	57.1	68.1	60.4	45.3	38.5	21.7	15.9	34.3	
	LOWEST DAILY MINIMUM	-22	-25	-12	22	28	42	59	52	30	20	-6	-2	-25	
	DATE OF OCCURRENCE	19	08	05	16	02	11	06	17+	15	20	20	06+	FEB 08	
	AVERAGE DRY BULB	9.0	14.5	26.3	44.8	56.6	67.4	78.6	71.8	59.7	52.2	34.6	27.0	45.2	
	MEAN WET BULB	8.9	14.3	24.6	40.5	50.3	61.7	71.7	65.6	53.0	44.8	29.6	24.4	40.8	
	MEAN DEW POINT	5.2	10.3	21.1	35.2	44.2	57.5	68.4	62.1	47.3	37.5	21.7	18.8	35.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	4	14	2	2	0	0	0	0	22
	MAXIMUM <= 32°	28	19	12	0	0	0	0	0	0	0	2	9	70	
	MINIMUM <= 32°	31	26	26	9	3	0	0	0	1	13	27	31	167	
MINIMUM <= 0°	16	14	4	0	0	0	0	0	0	0	1	2	37		
H/C	HEATING DEGREE DAYS	1731	1408	1193	603	270	46	0	0	196	414	906	1168	7935	
	COOLING DEGREE DAYS	0	0	0	0	18	126	427	219	44	26	0	0	860	
RH	MEAN (PERCENT)	80	78	81	73	67	73	73	74	68	63	64	73	72	
	HOUR 00 LST	83	82	85	80	78	81	84	86	80	73	73	78	80	
	HOUR 06 LST	81	81	86	84	84	88	90	92	88	81	79	83	85	
	HOUR 12 LST	78	72	76	65	54	62	60	61	48	47	50	62	61	
	HOUR 18 LST	81	77	77	61	54	59	57	57	52	52	54	69	63	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	2	2	1	1	2	0	1	1	2	2	16	
	THUNDERSTORMS	0	0	2	0	0	0	0	0	0	0	0	0	2	
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	28.64	28.69	28.45	28.49	28.46	28.52	28.54	28.68	28.59	28.56	28.68	28.58	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.09	30.12	29.84	29.86	29.81	29.85	29.89	30.05	29.97	29.97	30.11	29.98	
WINDS	RESULTANT SPEED (MPH)	3.8	3.1	1.9	2.4	1.9	1.0	3.6	1.5	1.1	1.6	2.4	3.1	0.6	
	RES. DIR. (TENS OF DEGS.)	35	32	08	34	05	12	15	16	29	24	28	29	33	
	MEAN SPEED (MPH)	10.1	10.6	10.8	12.0	11.6	9.4	7.6	6.9	7.7	9.1	9.5	8.9	9.5	
	PREVAIL.DIR.(TENS OF DEGS.)	02	16	16	32	14	15	16	16	16	16	16	17	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	32	44	40	38	32	44	48	39	32	36	33	48	
	DIR. (TENS OF DEGS.)	01	31	30	28	31	30	24	35	30	15	34	33	35	
	DATE OF OCCURRENCE	07	13	11	30	01	30	26	11	20	06	26	14	AUG 11	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	43	55	53	51	39	70	61	53	48	46	40	70	
DIR. (TENS OF DEGS.)	01	30	31	26	16	29	22	34	30	15	17	33	22		
DATE OF OCCURRENCE	07	17	11	30	08	30	26	11	20	06	05	14	JUL 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.55	1.49	1.40	2.59	3.34	3.95	3.49	2.35	0.45	1.43	0.43	0.24	22.71	
	GREATEST 24-HOUR (IN.)	0.54	1.12	0.72	1.27	0.79	2.72	2.27	0.93	0.29	1.08	0.38	0.19	2.72	
	DATE OF OCCURRENCE	09-10	20	21-22	14-15	30	20-21	26	11	18	09-10	19	29	JUN 20-21	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	7	12	13	13	9	9	8	5	7	4	3	99	
PRECIPITATION 0.10	4	3	5	8	8	7	4	5	1	3	1	1	50		
PRECIPITATION 1.00	0	1	0	1	0	1	1	0	0	1	0	0	5		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	18.0	16.2	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.8	52.0	
	GREATEST 24-HOUR (IN.)	4.7	10.0	2.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.5	10.0	
	DATE OF OCCURRENCE	10	20	08	15							19	04	FEB 20	
	MAXIMUM SNOW DEPTH (IN.)	20	18	18	2	0	0	0	0	0	0	4	1	20	
	DATE OF OCCURRENCE	17+	28+	04+	15							20	06+	JAN 17+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	6	3	3	1	0	0	0	0	0	0	1	0	14		

# NORMALS, MEANS, AND EXTREMES HURON (KHON)

LATITUDE:  
44° 23'N

LONGITUDE:  
-98° 13'W

ELEVATION (FT):  
GRND: 1280 BARO: 1284

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	24.8	31.3	43.0	58.3	70.5	80.3	86.1	84.4	74.7	60.9	41.4	28.8	57.0
	MEAN DAILY MAXIMUM	129	23.6	28.2	41.0	58.1	69.6	79.2	86.1	84.2	74.6	61.3	42.9	29.3	56.5
	HIGHEST DAILY MAXIMUM	70	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.	129	46.9	50.8	67.2	82.0	88.3	94.7	99.7	98.4	94.1	83.4	66.4	51.3	76.9
	NORMAL DAILY MINIMUM	30	3.5	10.8	22.3	33.9	45.8	55.4	60.7	58.6	47.3	34.9	21.1	8.4	33.6
	MEAN DAILY MINIMUM	129	2.9	7.5	20.4	34.0	45.0	55.4	60.8	58.5	48.1	35.7	21.4	9.6	33.3
	LOWEST DAILY MINIMUM	70	-37	-41	-24	-2	17	32	37	36	19	8	-21	-30	-41
	YEAR OF OCCURRENCE		1988	1994	1960	1975	2005	1964	1971	1964	1974	2002	1964	1990	FEB 1994
	MEAN OF EXTREME MINS.	129	-21.2	-17.4	-3.3	17.6	29.3	41.1	48.4	44.1	30.6	18.7	1.0	-13.8	14.6
	NORMAL DRY BULB	30	14.2	21.0	32.6	46.1	58.2	67.9	73.4	71.5	61.0	47.9	31.3	18.6	45.3
	MEAN DRY BULB	129	13.2	17.9	30.7	46.1	57.3	67.4	73.5	71.4	61.4	48.5	32.2	19.4	44.9
	MEAN WET BULB	27	13.9	18.3	28.4	39.5	50.8	60.3	65.4	63.5	53.9	41.2	27.6	17.3	40.0
	MEAN DEW POINT	27	11.0	15.6	25.1	35.4	47.7	57.6	62.7	61.1	50.6	37.6	24.9	14.9	37.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	0.5	4.2	10.6	8.4	2.9	0.2	0.0	0.0	27.0
	MAXIMUM <= 32	30	20.3	14.1	6.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	7.7	17.3	66.3
MINIMUM <= 32	30	30.8	27.1	25.0	13.4	1.8	0.0	0.0	0.0	1.6	11.6	26.2	30.7	168.2	
MINIMUM <= 0	30	12.6	7.3	1.8	*	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.1	31.1	
H/C	NORMAL HEATING DEG. DAYS	30	1572	1242	1004	567	242	49	8	21	180	530	996	1423	7834
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	29	138	273	228	66	3	0	0	741
RH	NORMAL (PERCENT)	30	76	76	74	66	68	69	69	71	69	69	75	77	72
	HOURLY 00 LST	30	77	79	82	76	77	80	80	81	79	76	80	79	79
	HOURLY 06 LST	30	78	81	84	83	84	86	88	89	87	83	83	81	84
	HOURLY 12 LST	30	69	69	65	54	55	56	54	55	53	55	65	70	60
	HOURLY 18 LST	30	73	72	64	51	52	52	50	51	52	58	70	75	60
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 (VISIB <= 1/4 MI)	48	1.9	2.1	2.4	1.1	0.8	0.5	1.1	1.5	1.1	1.3	1.5	2.4	17.7
	THUNDERSTORMS	107	0.0	0.1	0.4	2.0	5.0	8.0	8.4	7.4	3.9	1.3	0.1	0.0	36.6
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)	28	28.68	28.68	28.63	28.56	28.54	28.53	28.57	28.59	28.60	28.62	28.63	28.67	28.61
	MEAN SEA-LEVEL PRES. (IN)	28	30.12	30.12	30.04	29.95	29.90	29.88	29.91	29.95	29.97	30.01	30.04	30.10	30.00
WINDS	MEAN SPEED (MPH)	28	10.5	10.6	11.5	11.8	11.4	9.9	9.1	9.1	10.0	10.3	10.5	10.5	10.4
	PREVAIL. DIR (TENS OF DEGS)	32	33	33	16	36	16	16	16	16	16	16	16	16	16
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	48	52	52	57	47	58	53	70	44	48	48	48	70
	DIR. (TENS OF DEGS)		31	33	33	32	24	28	32	32	31	30	32	32	32
	YEAR OF OCCURRENCE		2000	2002	1999	1997	2005	2010	2005	2004	1997	2008	2005	2000	AUG 2004
	MAXIMUM 3-SECOND SPEED (MPH)	15	55	64	62	70	55	70	70	90	60	63	61	58	90
	DIR. (TENS OF DEGS)		31	33	32	31	02	27	22	32	32	31	34	36	32
	YEAR OF OCCURRENCE		2000	2002	1999	1997	2008	2010	2011	2004	1997	2010	1997	2010	AUG 2004
PRECIPITATION	NORMAL (IN)	30	0.49	0.57	1.67	2.29	3.00	3.28	2.86	2.07	1.80	1.59	0.89	0.39	20.90
	MAXIMUM MONTHLY (IN)	72	2.53	3.87	5.89	6.64	7.69	11.49	6.69	6.47	6.67	6.44	3.95	1.67	11.49
	YEAR OF OCCURRENCE		2001	1962	1977	2001	1962	1984	1993	2007	2005	1946	2005	2009	JUN 1984
	MINIMUM MONTHLY (IN)	72	0.02	0.03	0.12	0.21	0.33	0.67	0.20	0.14	0.10	T	T	T	0.02
	YEAR OF OCCURRENCE		1990	1968	1939	1996	1992	1950	2007	1976	1998	1952	1990	1986	JAN 1990
	MAXIMUM IN 24 HOURS (IN)	72	1.77	2.16	2.82	2.51	4.17	5.48	4.98	4.15	2.60	4.20	3.46	1.24	5.48
	YEAR OF OCCURRENCE		2001	1962	1985	2001	2007	1967	1986	1956	1950	1961	2005	1949	JUN 1967
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	5.5	6.5	7.9	9.0	10.8	10.3	9.3	8.0	6.8	5.9	6.2	5.2	91.4
	PRECIPITATION >= 1.00	30	0.0	*	0.3	0.4	0.6	0.7	0.6	0.3	0.4	0.3	0.1	0.0	3.7
SNOWFALL	NORMAL (IN)	30	7.7	7.5	9.0	3.2	0.*	0.0	0.0	0.0	0.*	1.2	6.9	6.6	42.1
	MAXIMUM MONTHLY (IN)	71	28.7	39.9	33.9	23.4	1.6	T	T	T	T	10.7	32.7	26.0	39.9
	YEAR OF OCCURRENCE		2001	1962	1975	1995	1954	2010	1996	1996	1995	1995	1985	2009	FEB 1962
	MAXIMUM IN 24 HOURS (IN)	71	19.5	17.5	19.0	11.0	1.6	T	T	T	T	8.6	14.8	10.7	19.5
	YEAR OF OCCURRENCE		2001	1962	2002	2000	1954	2010	1995	1995	1995	1995	2005	1955	JAN 2001
	MAXIMUM SNOW DEPTH (IN)	118	100	36	36	16	1	0	0	0	1	6	16	20	100
	YEAR OF OCCURRENCE		1916	2001	2001	1995	1954				1912	1995	1985	1985	JAN 1916
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.3	2.3	2.2	1.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	2.0	12.1

**PRECIPITATION (inches) 2011 HURON (KHON)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.25	.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
2000	0.22	0.56	0.35	2.61	4.43	2.92	3.22	1.20	0.44	1.56	2.25	0.32	20.08
2001	2.53	1.15	0.77	6.64	2.41	5.03	2.59	1.08	1.73	0.44	2.35	0.06	26.78
2002	0.83	0.19	1.73	1.58	1.32	1.28	0.84	3.66	0.72	2.30	0.05	0.38	14.88
2003	0.22	1.02	0.27	1.58	2.61	4.04	1.28	1.49	1.60	1.15	0.97	0.19	16.42
2004	0.34	1.22	1.98	1.91	3.58	3.33	4.44	3.10	5.54	3.79	0.27	0.21	29.71
2005	0.21	0.46	0.38	0.67	2.81	5.58	1.40	2.52	6.67	0.55	3.95	0.58	25.78
2006	0.14	0.29	1.04	1.65	1.69	1.56	0.46	4.47	4.59	0.15	0.27	1.22	17.53
2007	0.19	1.34	2.08	1.92	7.41	6.23	0.20	6.47	1.01	3.12	0.02	0.70	30.69
2008	0.17	0.24	1.49	2.05	2.26	4.05	2.47	2.79	3.27	4.88	0.89	0.88	25.44
2009	0.49	0.58	1.68	1.07	2.16	4.35	3.06	1.46	2.71	3.90	0.07	1.67	23.20
2010	0.73	0.91	1.82	2.40	3.67	7.52	6.43	1.60	3.50	0.86	0.07	1.38	30.89
2011	1.55	1.49	1.40	2.59	3.34	3.95	3.49	2.35	0.45	1.43	0.43	0.24	22.71
POR= 129 YRS	0.53	0.61	1.17	2.17	2.82	3.56	2.60	2.21	1.76	1.44	0.71	0.52	20.10

WBAN : 14936

**AVERAGE TEMPERATURE (°F) 2011 HURON (KHON)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	19.4	30.8	40.4	46.5	60.1	66.5	73.9	73.3	63.3	52.3	23.5	7.2	46.4
2001	17.6	7.9	23.3	46.5	60.1	68.1	76.6	73.4	62.9	48.7	42.1	22.4	45.8
2002	24.0	30.3	22.3	46.5	53.9	72.0	79.6	71.5	64.4	39.8	33.3	26.5	47.0
2003	18.2	16.7	32.2	48.0	56.0	66.0	74.6	74.8	60.9	51.3	28.7	26.2	46.1
2004	14.3	21.4	38.5	48.1	57.5	63.7	71.1	66.6	65.0	49.6	37.4	26.0	46.6
2005	14.7	27.2	34.4	49.5	56.5	70.5	76.3	72.1	67.9	50.2	36.0	17.0	47.7
2006	31.0	23.0	34.5	51.3	58.5	69.4	78.3	73.0	57.4	44.8	33.3	27.2	48.5
2007	16.6	12.1	38.4	43.8	62.2	69.9	76.2	71.3	63.2	51.4	34.2	16.5	46.3
2008	14.1	17.7	30.9	43.3	55.0	65.3	73.6	72.3	62.1	47.9	33.5	13.1	44.1
2009	12.2	21.0	31.0	44.3	58.0	64.8	68.5	67.9	64.0	41.3	40.4	13.3	43.9
2010	11.3	13.2	37.1	52.6	57.3	68.5	74.6	75.4	60.2	51.6	33.4	16.4	46.0
2011	9.0	14.5	26.3	44.8	56.6	67.4	78.6	71.8	59.7	52.2	34.6	27.0	45.2
POR= 129 YRS	13.2	17.9	30.7	46.1	57.3	67.4	73.5	71.4	61.4	48.5	32.2	19.4	44.9

**HEATING DEGREE DAYS (base 65°F) 2011 HURON (KHON)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	3	3	205	518	672	1172	1409	987	754	548	180	59	6510
2000-01	14	8	149	387	1239	1785	1460	1592	1286	561	172	48	8701
2001-02	6	7	136	502	680	1313	1266	963	1316	552	377	25	7143
2002-03	0	22	141	776	946	1185	1444	1349	1011	514	283	75	7746
2003-04	0	18	192	429	1081	1195	1566	1256	815	503	262	94	7411
2004-05	21	54	112	469	819	1203	1551	1054	939	460	286	13	6981
2005-06	4	9	63	466	865	1485	1048	1171	941	408	239	20	6719
2006-07	0	2	242	627	942	1162	1492	1473	819	633	127	25	7544
2007-08	0	4	154	426	917	1498	1570	1365	1046	647	303	36	7966
2008-09	7	3	133	524	937	1605	1631	1222	1048	618	237	112	8077
2009-10	22	36	78	727	733	1596	1656	1444	858	369	278	17	7814
2010-11	0	2	146	412	942	1499	1731	1408	1193	603	270	46	8252
2011-	0	0	196	414	906	1168							

WBAN : 14936

**COOLING DEGREE DAYS (base 65°F) 2011 HURON (KHON)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	0	0	0	0	33	112	298	269	104	5	0	0	821
2001	0	0	0	12	26	147	371	275	80	6	0	0	917
2002	0	0	0	4	37	244	462	228	129	0	0	0	1104
2003	0	0	0	13	10	109	305	327	78	12	0	0	854
2004	0	0	0	2	33	64	218	111	118	0	0	0	546
2005	0	0	0	3	30	187	360	238	153	12	0	0	983
2006	0	0	0	3	41	159	369	259	21	9	0	0	861
2007	0	0	0	5	48	180	356	209	106	12	0	0	916
2008	0	0	0	0	1	52	280	236	52	0	0	0	621
2009	0	0	0	6	26	111	135	136	55	0	0	0	469
2010	0	0	0	3	48	127	305	335	10	5	0	0	833
2011	0	0	0	0	18	126	427	219	44	26	0	0	860

## SNOWFALL (inches) 2011 HURON (KHON)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	4.3	17.9	8.2	8.3	3.0	9.9	0.0	T	51.6
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
1999-00	0.0	0.0	0.0	4.8	T	2.6	1.8	0.6	0.4	14.0	T	T	24.2
2000-01	0.0	0.0	0.0	T	22.6	10.0	28.7	19.4	4.4	4.5	0.0	T	89.6
2001-02	0.0	0.0	0.0	0.0	11.2	1.6	2.9	2.0	25.2	1.4	0.0	T	44.3
2002-03	0.0	T	0.0	6.0	0.8	4.3	4.6	6.6	5.0	0.1	0.0	0.0	27.4
2003-04	0.0	0.0	0.0	0.4	14.1	1.7	8.8	5.7	3.2	0.4	0.0	0.0	34.3
2004-05	0.0	T	0.0	T	0.0	1.1	4.0	3.6	3.2	0.0	T	0.0	11.9
2005-06	0.0	0.0	0.0	T	20.0	7.0	1.1	4.7	6.5	T	0.0	0.0	39.3
2006-07	0.0	0.0	0.0	0.5	0.4	8.7	2.5	20.6	5.6	4.5	0.0	0.0	42.8
2007-08	0.0	0.0	0.0	0.0	0.1	9.0	2.7	2.8	12.0	17.0	0.0	0.0	43.6
2008-09	0.0	0.0	0.0	0.0	6.5	14.1	8.3	5.2	12.7	4.1	0.0	0.0	50.9
2009-10	0.0	0.0	0.0	2.6	T	26.0	8.6	12.2	1.2	0.0	0.0	T	50.6
2010-11	0.0	0.0	0.0	1.6	0.7	21.1	18.0	16.2	7.9	4.0	0.0	0.0	69.5
2011-	0.0	0.0	0.0	0.0	5.1	0.8							
POR= 123 YRS	T	T	T	0.8	4.5	5.8	6.8	6.9	7.3	2.8	0.1	T	35.0

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 (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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2011 HURON SOUTH DAKOTA (KHON)

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 History

HURON, SD

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
HURON W W HOWES MUNICIPAL AP	1968-10-09	1972-12-01	44° 22'	-98° 13'	1281		AIRWAYS, COOP
HURON W W HOWES MUNICIPAL AP	1933-01-01	1947-12-01	44° 22'	-98° 13'			AIRWAYS
HURON MUNICIPAL AP	1972-12-01	1973-01-01	44° 22'	-98° 13'	1281		AIRWAYS, COOP
HURON REGIONAL AP	1996-11-01	2011-01-01	44° 23'	-98° 13'	1280	.3 MI S	ASOS, COOP, WXSVC
HURON MUNICIPAL AP	1973-01-01	1977-12-01	44° 22'	-98° 13'	1281		COOP, WXSVC
HURON REGIONAL AP	2011-01-01	Present	44° 23'	-98° 13'	1280		ASOS, COOP, WXSVC
HURON W W HOWES MUNICIPAL AP	1947-12-01	1968-10-09	44° 22'	-98° 13'	1296		AIRWAYS, COOP
HURON REGIONAL AP	1977-12-01	1996-11-01	44° 22'	-98° 13'	1281		COOP, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1982-01-01	1992-04-16	DAILY	2400			
WIND	2011-01-02	Present	DAILY	2400	WINDX		
PRECIP	1982-01-01	1992-04-16	HOURLY	2400	UNIV	RCRD	
PRECIP	1992-04-16	1996-11-01	DAILY	2400	UNIV	RCRD	
PRECIP	1996-11-01	2011-01-02	DAILY	2400	TB	RCRD	
TEMP	2011-01-02	Present	DAILY	2400	ATEMP		
TEMP	1933-01-01	1982-01-01	DAILY	2400			
PRECIP	1933-01-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1992-04-16	1996-11-01	HOURLY	2400	UNIV	RCRD	
TEMP	1992-04-16	1996-11-01	DAILY	2400	MXMN		
TEMP	1996-11-01	2011-01-02	DAILY	2400	HYGR		
DEWPNTTEMP	2011-01-02	Present	DAILY	2400	TEMPX		
PRECIP	2011-01-02	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2011-01-02	Present	DAILY	2400	PCPNX		
PRECIP	1996-11-01	2011-01-02	HOURLY		TB	RCRD	
PRECIP	1982-01-01	1992-04-16	DAILY	2400	UNIV	RCRD	

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

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NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)