

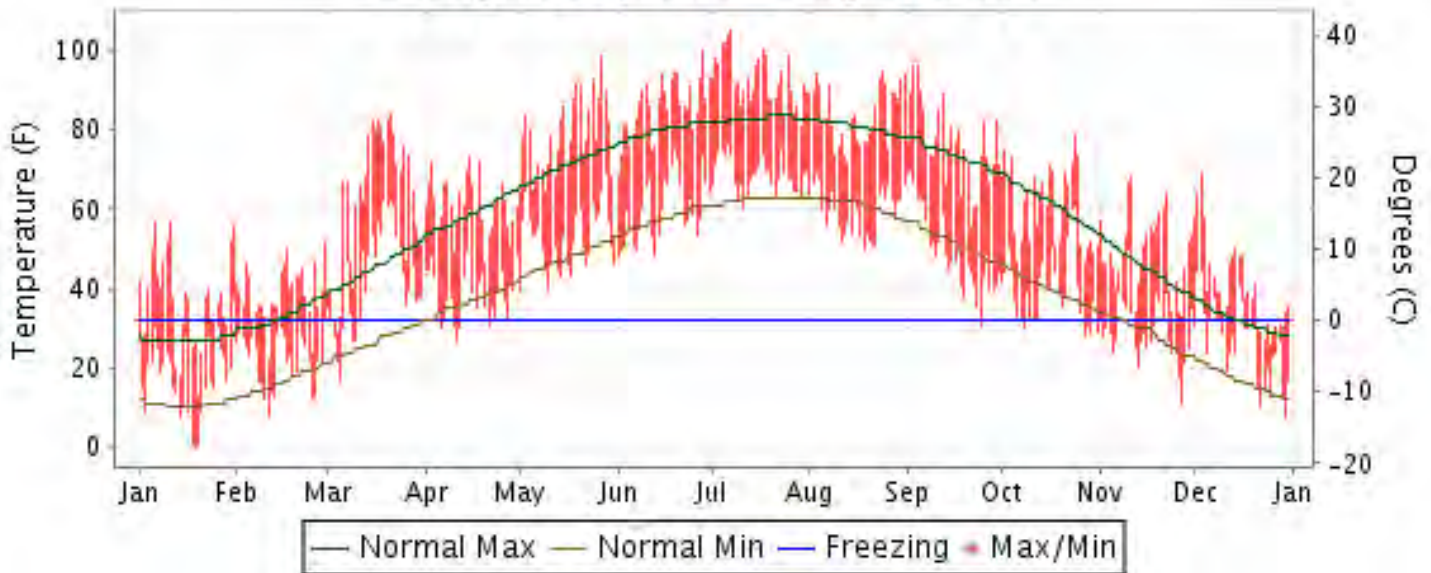


# 2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

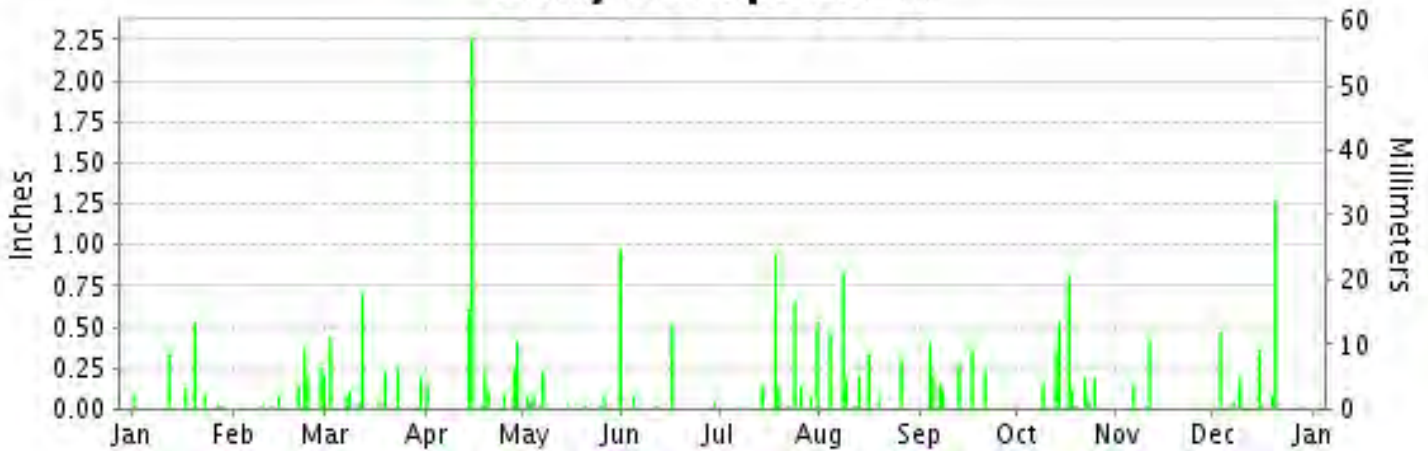
ISSN 0198-1900

## ROCKFORD, ILLINOIS (KRFD)

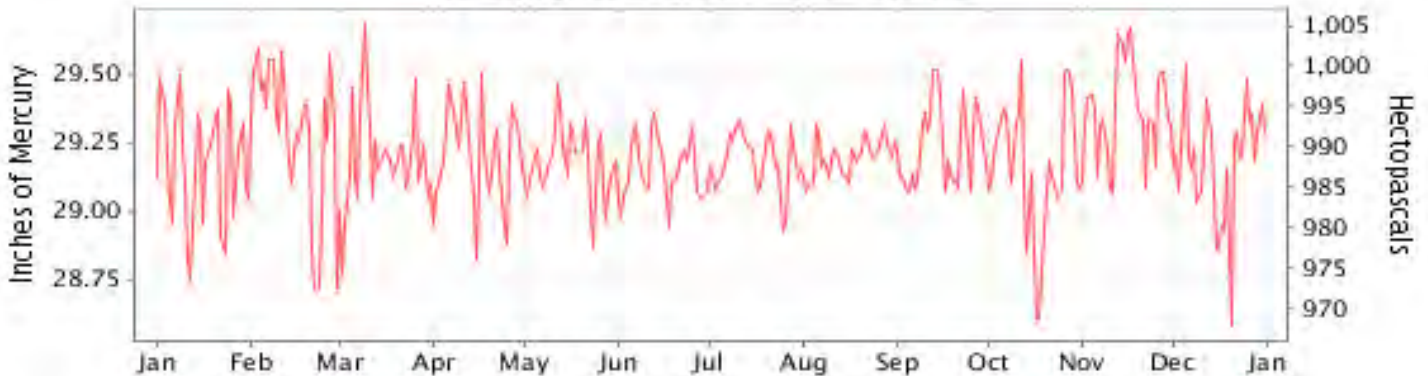
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2012

## ROCKFORD (KRFD)

LATITUDE: 42° 11'N      LONGITUDE: 89° 5'W      ELEVATION (FT): GRND: 730 BARO: 731      TIME ZONE: CENTRAL (UTC -6)      WBAN: 94822

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	36.9	38.7	62.5	60.9	77.7	85.7	92.8	84.0	76.4	61.1	49.0	40.3	63.8	
	HIGHEST DAILY MAXIMUM	57	52	84	73	99	100	105	95	96	79	68	69	105	
	DATE OF OCCURRENCE	11+	29	21	15	27	28	07	24	04+	24	11	03	JUL 07	
	MEAN DAILY MINIMUM	18.0	22.2	42.3	39.0	52.6	60.1	68.8	59.6	49.5	39.8	29.4	26.5	42.3	
	LOWEST DAILY MINIMUM	0	8	17	27	40	48	60	50	31	28	11	8	0	
	DATE OF OCCURRENCE	20+	11	05	11	10+	13+	11	18	24	27	27	30	JAN 20+	
	AVERAGE DRY BULB	27.5	30.5	52.4	50.0	65.2	72.9	80.8	71.8	63.0	50.5	39.2	33.4	53.1	
	MEAN WET BULB	24.7	28.0	46.5	43.6	56.0	62.0	69.9	63.4	54.7	45.1	35.6	31.3	46.7	
	MEAN DEW POINT	19.1	22.6	40.2	35.6	47.9	54.0	64.1	57.9	48.3	38.8	30.2	27.8	40.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	5	11	21	9	3	0	0	0	49	
	MAXIMUM <= 32°	12	3	2	0	0	0	0	0	0	0	0	9	26	
	MINIMUM <= 32°	30	27	7	7	0	0	0	0	1	7	19	23	121	
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1157	997	420	446	99	14	0	2	144	447	766	972	5464	
	COOLING DEGREE DAYS	0	0	36	2	113	255	500	223	92	6	0	0	1227	
RH	MEAN (PERCENT)	72	73	67	61	57	53	60	65	64	68	72	80	66	
	HOUR 00 LST	76	78	75	71	67	64	72	78	78	76	79	82	75	
	HOUR 06 LST	78	82	79	77	75	71	78	84	85	82	81	86	80	
	HOUR 12 LST	64	65	55	47	44	39	44	47	43	54	59	74	53	
	HOUR 18 LST	69	68	58	50	46	39	48	53	50	63	70	79	58	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	5	1	0	1	0	1	3	1	0	2	3	19	
	THUNDERSTORMS	0	1	3	4	10	3	8	3	4	2	1	0	39	
PR	MEAN STATION PRESS. (IN.)	29.17	29.28	29.19	29.21	29.18	29.15	29.18	29.20	29.23	29.16	29.36	29.19	29.21	
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	30.11	30.00	30.02	29.97	29.94	29.96	29.99	30.03	29.97	30.18	30.01	30.02	
WINDS	RESULTANT SPEED (MPH)	3.8	2.4	4.4	2.2	1.6	3.2	1.4	1.0	1.1	2.4	2.4	1.2	1.4	
	RES. DIR. (TENS OF DEGS.)	26	27	19	06	18	21	21	21	32	25	21	31	23	
	MEAN SPEED (MPH)	9.4	8.9	10.9	9.8	9.1	8.5	6.6	5.5	7.1	9.6	7.2	9.0	8.5	
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	18	07	17	19	17	17	19	18	18	01	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	32	36	38	39	32	46	46	40	31	38	33	46	
	DIR. (TENS OF DEGS.)	29	22	21	17	17	20	34	26	35	17	19	31	26	
	DATE OF OCCURRENCE	01	29	07	15	24	18	24	04	04	16	11	20	AUG 04	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	48	40	44	53	49	43	64	56	55	41	46	45	64	
DIR. (TENS OF DEGS.)	30	21	20	18	18	20	34	26	35	29	19	35	34		
DATE OF OCCURRENCE	01	29	07	15	24	18	24	04	04	17	11	20	JUL 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.23	1.31	2.09	4.13	1.62	0.66	2.68	2.38	1.74	2.42	0.60	2.49	23.35	
	GREATEST 24-HOUR (IN.)	0.53	0.57	0.73	2.87	0.98	0.51	1.08	0.95	0.60	0.85	0.43	1.33	2.87	
	DATE OF OCCURRENCE	20	23-24	11-12	14-15	31	16	18-19	08-09	04-05	17-18	11	19-20	APR 14-15	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	8	12	10	11	4	11	8	7	10	3	12	105	
PRECIPITATION 0.10	3	5	6	7	2	1	6	6	7	7	2	4	56		
PRECIPITATION 1.00	0	0	0	1	0	0	0	0	0	0	0	1	2		
SNOWFALL	SNOW,ICE PELLETS,HAIL	12.4	7.2	3.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	2.1	24.7	
	TOTAL (IN.)	5.1	4.0	2.9	T	0.0	0.0	0.0	0.0	0.0	0.0	T	1.4	5.1	
	GREATEST 24-HOUR (IN.)	20	24	02	28+							23+	20	JAN 20	
	DATE OF OCCURRENCE	7	5	3	0	0	0	0	0	0	0	0	1	7	
	MAXIMUM SNOW DEPTH (IN.)	22+	24	04+									30+	JAN 22+	
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	3	2	1	0	0	0	0	0	0	0	0	1	7		

# NORMALS, MEANS, AND EXTREMES ROCKFORD (KRFD)

**LATITUDE:** 42° 11'N      **LONGITUDE:** 89° 5'W      **ELEVATION (FT):** GRND: 730 BARO: 731      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 94822**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	29.5	34.2	46.9	60.7	71.8	81.1	84.5	82.4	75.4	62.7	47.6	33.2	59.2	
	MEAN DAILY MAXIMUM	62	27.9	32.6	44.7	59.1	71.0	80.1	84.0	81.9	74.5	62.6	46.7	32.8	58.2	
	HIGHEST DAILY MAXIMUM	62	63	70	85	91	99	101	105	104	102	90	76	69	105	
	YEAR OF OCCURRENCE		2008	2000	1986	2002	2012	1988	2012	1988	1953	2010	2000	2012	JUL 2012	
	MEAN OF EXTREME MAXS.	62	47.8	51.1	69.7	80.7	87.3	92.7	94.0	92.5	89.4	81.5	66.9	52.9	75.5	
	NORMAL DAILY MINIMUM	30	13.5	17.7	27.5	38.1	48.4	58.5	63.0	61.3	52.4	40.7	30.3	17.7	39.1	
	MEAN DAILY MINIMUM	62	11.7	16.2	26.4	37.4	48.0	57.7	62.7	60.8	51.9	40.7	29.3	17.5	38.4	
	LOWEST DAILY MINIMUM	62	-27	-24	-11	5	24	37	43	41	27	15	-10	-24	-27	
	YEAR OF OCCURRENCE		1982	1996	2002	1982	1966	2003	1967	1986	1984	1952	1977	1983	JAN 1982	
	MEAN OF EXTREME MINS.	62	-11.1	-5.5	7.7	21.9	33.2	45.0	51.2	49.3	36.2	25.5	12.6	-4.7	21.8	
	NORMAL DRY BULB	30	21.5	25.9	37.2	49.4	60.1	69.8	73.8	71.9	63.9	51.7	38.9	25.4	49.1	
	MEAN DRY BULB	62	19.8	24.4	35.6	48.3	59.5	69.0	73.4	71.4	63.2	51.6	38.0	25.2	48.3	
	MEAN WET BULB	29	19.0	22.4	32.0	41.4	51.8	61.4	65.8	64.4	56.3	44.8	34.0	23.3	43.1	
	MEAN DEW POINT	29	17.1	20.3	29.1	38.0	48.8	58.9	63.8	62.7	54.2	42.4	32.0	21.4	40.7	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.6	3.4	5.7	4.0	1.1	0.1	0.0	0.0	14.9	
	MAXIMUM <= 32	30	17.3	10.7	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.6	46.0	
MINIMUM <= 32	30	29.0	25.0	21.8	7.5	0.5	0.0	0.0	0.0	0.3	5.1	16.8	27.4	133.4		
MINIMUM <= 0	30	5.5	2.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	11.5		
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1348	1093	862	476	198	31	3	11	117	422	782	1226	6569	
	NORMAL COOLING DEG. DAYS	30	0	0	0	8	47	175	274	223	84	9	0	0	820	
<b>RH</b>	NORMAL (PERCENT)	30	78	76	71	66	66	68	72	76	74	72	77	80	73	
	HOURLY 00 LST	30	81	81	78	74	76	79	84	88	86	82	81	82	81	
	HOURLY 06 LST	30	82	83	83	80	81	82	87	91	91	87	84	84	85	
	HOURLY 12 LST	30	72	68	62	55	54	55	58	60	57	57	67	73	62	
	HOURLY 18 LST	30	77	73	65	55	55	55	60	64	65	65	73	78	66	
<b>S</b>	PERCENT POSSIBLE SUNSHINE															
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	49	2.3	2.1	2.4	0.9	0.9	0.6	1.1	1.6	1.6	1.5	1.9	3.0	19.9	
	THUNDERSTORMS	57	0.2	0.5	2.1	4.1	5.9	7.9	7.6	6.4	4.6	2.2	1.1	0.3	42.9	
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
<b>PR</b>	MEAN STATION PRESSURE(IN)	29	29.27	29.28	29.21	29.17	29.17	29.17	29.20	29.24	29.25	29.25	29.25	29.27	29.23	
	MEAN SEA-LEVEL PRES. (IN)	29	30.13	30.11	30.06	29.97	29.97	29.95	29.98	30.02	30.05	30.05	30.07	30.10	30.04	
<b>WINDS</b>	MEAN SPEED (MPH)	29	10.0	10.1	10.9	11.2	9.9	8.3	7.4	6.9	7.6	9.0	10.1	9.8	9.3	
	PREVAIL.DIR(TENS OF DEGS)	38	31	31	31	07	19	19	19	19	19	19	19	19	19	
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	38	49	44	47	45	55	46	57	46	44	45	39	57	
	DIR. (TENS OF DEGS)		30	22	30	23	27	31	34	29	30	23	24	29	29	
	YEAR OF OCCURRENCE		2008	1999	2004	1997	2011	2011	2012	1998	2011	2010	1998	2004	AUG 1998	
	MAXIMUM 3-SECOND SPEED (MPH)	17	48	68	67	64	63	69	64	74	58	58	56	51	74	
	DIR. (TENS OF DEGS)		30	22	19	26	19	31	34	28	30	26	22	35	28	
YEAR OF OCCURRENCE		2012	1999	2009	1997	2008	2011	2012	1998	2011	2010	1998	2010	AUG 1998		
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.37	1.41	2.32	3.35	4.02	4.65	3.95	4.59	3.35	2.67	2.58	1.98	36.24	
	MAXIMUM MONTHLY (IN)	62	4.66	3.15	5.82	9.92	11.75	11.85	11.81	13.98	10.68	8.32	5.51	5.04	13.98	
	YEAR OF OCCURRENCE		1960	2008	2009	1973	1996	1993	1952	2007	1961	1969	1985	1971	AUG 2007	
	MINIMUM MONTHLY (IN)	62	0.18	0.04	.43	0.99	0.48	0.46	0.75	0.48	0.05	0.01	0.38	0.37	0.01	
	YEAR OF OCCURRENCE		1961	1969	2005	1989	1992	1988	2001	2003	1979	1952	1976	1976	OCT 1952	
	MAXIMUM IN 24 HOURS (IN)	62	2.89	1.73	2.50	5.55	4.77	6.07	5.32	6.42	5.56	5.22	3.20	2.50	6.42	
	YEAR OF OCCURRENCE		1960	1966	1976	1973	1996	2002	2010	1987	1961	1954	1961	2003	AUG 1987	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.4	8.2	10.5	11.3	12.2	10.4	9.4	9.7	8.3	9.4	10.2	10.2	119.2	
PRECIPITATION >= 1.00	30	0.1	0.2	0.5	0.8	1.2	1.3	0.9	1.2	0.8	0.5	0.5	0.2	8.2		
<b>SNOWFALL</b>	NORMAL (IN)	30	10.2	7.7	4.8	0.9	0.0	0.0	0.0	0.0	0.0	0.1	1.7	11.3	36.7	
	MAXIMUM MONTHLY (IN)	60	26.1	30.2	22.7	7.7	1.0	T	T	T	T	2.2	14.7	30.1	30.2	
	YEAR OF OCCURRENCE		1979	1994	1964	1982	1966	1996	1996	2008	1990	2006	1967	1951	2000	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	60	9.9	10.9	10.4	6.7	0.2	T	T	T	T	2.2	9.5	11.4	11.4	
	YEAR OF OCCURRENCE		1979	2011	1972	1970	1990	1996	1994	1990	2006	1967	1951	1987	DEC 1987	
	MAXIMUM SNOW DEPTH (IN)	50	9	19	9	2	0	0	0	0	0	2	8	13	19	
	YEAR OF OCCURRENCE		2010	2011	2002	2007						1993	1961	2008	FEB 2011	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.3	2.3	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	11.0		

**PRECIPITATION (inches) 2012 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
1994	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
1995	1.76	0.15	1.49	4.56	6.30	3.89	2.61	3.13	2.01	3.67	3.23	0.49	33.29
1996	1.40	0.49	0.50	2.90	11.75	4.95	9.72	2.70	1.62	3.56	.96	2.14	42.69
1997	1.13	2.83	1.28	1.90	5.85	4.66	1.69	3.40	1.79	1.44	1.22	0.84	28.03
1998	2.16	1.64	3.43	4.51	3.57	6.27	3.68	4.12	2.61	4.59	2.32	0.89	39.79
1999	3.11	1.17	1.14	7.77	3.36	5.74	3.41	3.19	5.29	0.96	0.71	1.94	37.79
2000	1.41	2.05	1.05	3.66	6.62	8.01	4.54	3.70	7.92	0.87	2.01	1.93	43.77
2001	2.28	3.05	1.25	3.21	3.98	2.11	0.75	4.22	9.19	4.00	2.04	0.93	37.01
2002	0.69	2.02	1.80	3.85	3.02	7.45	1.75	6.99	2.68	2.05	0.46	0.78	33.54
2003	0.34	0.16	1.45	2.33	4.20	1.98	4.30	0.48	2.02	1.31	3.60	3.20	25.37
2004	0.46	0.79	4.06	1.79	8.21	4.49	3.65	6.89	0.25	2.56	3.03	0.65	36.83
2005	3.29	1.51	0.43	1.71	1.78	2.45	1.45	5.10	1.86	0.24	2.81	1.00	23.63
2006	2.97	0.66	4.05	4.30	3.72	3.32	3.64	3.55	2.91	3.52	2.69	2.52	37.85
2007	0.81	1.43	3.25	2.73	1.25	4.07	2.43	13.98	2.04	1.44	0.40	3.27	37.10
2008	1.14	3.15	2.42	5.42	3.12	6.27	7.35	1.91	6.36	1.68	1.39	4.01	44.22
2009	0.81	2.22	5.82	4.61	3.46	7.36	2.60	7.19	1.69	5.94	1.44	3.55	46.69
2010	0.85	0.66	1.41	2.89	5.82	6.13	9.40	1.96	1.89	3.02	1.33	1.73	37.09
2011	0.88	1.90	3.41	3.40	3.94	3.44	4.60	4.47	5.33	1.58	4.03	2.06	39.04
2012	1.23	1.31	2.09	4.13	1.62	0.66	2.68	2.38	1.74	2.42	0.60	2.49	23.35
POR= 62 YRS	1.38	1.31	2.46	3.77	3.85	4.53	4.20	4.12	3.52	2.77	2.44	1.95	36.30

WBAN : 94822

**AVERAGE TEMPERATURE (°F) 2012 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
1994	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
1995	20.1	24.2	38.1	44.8	57.9	72.2	74.7	77.1	60.4	51.4	30.0	23.3	47.9
1996	18.5	23.0	29.8	45.2	55.5	68.8	69.1	71.2	62.4	50.9	30.3	24.2	45.7
1997	16.6	26.5	37.2	44.2	53.5	69.1	72.2	68.5	63.1	52.1	34.4	27.7	47.1
1998	26.2	36.6	37.8	48.9	64.2	67.9	71.8	72.4	66.6	53.2	41.7	31.9	51.6
1999	18.5	32.5	34.6	49.7	61.7	69.9	76.8	68.7	61.3	50.7	43.2	26.8	49.5
2000	21.6	31.1	43.0	47.7	61.5	66.7	71.1	71.6	63.5	54.9	35.8	12.6	48.4
2001	21.1	22.4	33.4	53.5	61.1	67.6	75.2	72.8	61.1	50.5	47.6	31.8	49.8
2002	30.0	31.1	33.0	48.7	54.8	70.7	76.8	72.6	66.0	48.0	35.5	28.8	49.7
2003	19.2	21.7	35.1	48.4	57.3	66.7	71.9	74.3	62.9	51.2	39.4	30.0	48.2
2004	18.5	25.8	40.6	50.5	60.6	67.6	70.3	66.0	65.3	52.4	41.5	26.4	48.8
2005	21.4	30.5	34.2	52.6	56.9	74.3	74.2	72.6	68.4	53.7	40.6	20.0	50.0
2006	33.5	26.5	37.0	52.7	59.7	67.6	75.2	72.3	60.8	47.8	41.4	31.3	50.5
2007	25.8	15.9	42.5	47.3	64.9	70.8	73.2	74.6	67.0	58.5	38.3	25.1	50.3
2008	21.0	20.2	33.8	50.0	57.2	70.5	73.2	71.3	65.7	51.9	38.8	19.5	47.8
2009	13.8	26.2	38.9	48.6	59.1	68.4	67.0	68.1	63.9	47.2	43.7	23.6	47.4
2010	18.3	24.2	41.3	54.8	61.6	70.4	75.4	74.6	64.7	55.4	41.6	20.4	50.2
2011	19.9	24.7	37.4	48.9	59.7	70.3	79.0	72.6	61.5	53.8	41.6	32.6	50.2
2012	27.5	30.5	52.4	50.0	65.2	72.9	80.8	71.8	63.0	50.5	39.2	33.4	53.1
POR= 62 YRS	19.8	24.4	35.6	48.3	59.5	69.0	73.4	71.4	63.2	51.6	38.0	25.2	48.3

**HEATING DEGREE DAYS (base 65°F) 2012 ROCKFORD (KRFD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156	1622	1334	880	445	200	22	7209
1994-95	4	34	93	376	706	1070	1388	1139	827	600	220	16	6473
1995-96	6	0	181	418	1043	1285	1432	1213	1081	589	326	38	7612
1996-97	6	0	134	431	1032	1259	1494	1071	857	617	350	22	7273
1997-98	5	13	98	437	913	1147	1194	788	846	474	86	73	6074
1998-99	0	0	51	361	693	1021	1435	904	935	449	139	34	6022
1999-00	0	5	160	435	644	1178	1341	977	672	514	157	56	6139
2000-01	0	0	143	316	867	1620	1356	1186	971	345	174	70	7048
2001-02	4	0	157	443	519	1023	1080	945	984	517	336	21	6029
2002-03	0	0	69	526	876	1118	1411	1207	923	501	237	57	6925
2003-04	0	2	139	419	761	1076	1438	1127	749	443	179	41	6374
2004-05	7	54	60	388	697	1193	1344	961	950	369	258	6	6287
2005-06	1	0	45	379	727	1389	970	1074	862	364	231	32	6074
2006-07	0	0	148	539	700	1038	1207	1368	698	529	82	13	6322
2007-08	0	4	69	252	796	1230	1358	1292	959	444	249	1	6654
2008-09	0	0	60	408	778	1405	1580	1080	799	486	189	43	6828
2009-10	27	30	65	543	630	1278	1443	1138	728	309	185	4	6380
2010-11	0	0	70	307	693	1377	1391	1123	849	483	231	12	6536
2011-12	0	0	166	356	698	1000	1157	997	420	446	99	14	5353
2012-	0	2	144	447	766	972							

WBAN : 94822

**COOLING DEGREE DAYS (base 65°F) 2012 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746
1994	0	0	0	23	45	224	200	127	86	5	0	0	710
1995	0	0	0	0	4	240	313	382	51	4	0	0	994
1996	0	0	0	0	37	158	141	196	65	0	0	0	597
1997	0	0	0	0	2	155	236	130	46	42	0	0	611
1998	0	0	8	0	72	166	217	234	105	1	0	0	803
1999	0	0	0	0	47	188	371	129	55	0	0	0	790
2000	0	0	0	0	55	115	195	215	103	7	0	0	690
2001	0	0	0	7	59	156	326	247	45	0	0	0	840
2002	0	0	0	34	28	198	375	243	105	7	0	0	990
2003	0	0	0	7	4	116	222	298	83	2	0	0	732
2004	0	0	0	14	49	124	180	96	77	4	0	0	544
2005	0	0	0	5	14	292	294	241	152	36	0	0	1034
2006	0	0	0	4	72	116	324	232	30	14	0	0	792
2007	0	0	9	3	89	197	264	305	136	56	0	0	1059
2008	0	0	0	2	13	174	262	202	88	10	0	0	751
2009	0	0	0	0	14	153	93	134	39	0	0	0	433
2010	0	0	0	10	87	171	332	306	69	16	0	0	991
2011	0	0	0	7	72	178	440	242	66	14	0	0	1019
2012	0	0	36	2	113	255	500	223	92	6	0	0	1227

## SNOWFALL (inches) 2012 ROCKFORD (KRFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9	14.8	30.2	0.4	0.5	0.0	0.0	51.5
1994-95	T	0.0	0.0	0.0	T	12.0	17.4	0.5	2.5	T	0.0	0.0	32.4
1995-96	0.0	0.0	0.0		8.2	6.3	6.8	2.4	2.9	T	0.0	T	
1996-97	0.0	0.0	0.0										
1997-98													
1998-99					T	0.4	14.3	0.8	10.4	T	0.0	0.0	
1999-00	0.0	0.0	0.0	0.0	0.0	5.0	14.4	11.8	1.2	1.2	0.0	T	33.6
2000-01	0.0	T	0.0	0.0	0.4	30.1	1.8	3.8	3.1	0.2	0.0	0.0	39.4
2001-02	0.0	0.0	0.0	T	0.0	0.5	10.4	2.3	12.5	1.3	T	T	27.0
2002-03	0.0	0.0	0.0	T	2.7	1.8	4.1	2.1	7.0	0.6	0.0	0.0	18.3
2003-04	0.0	0.0	0.0	T	T	1.3	7.3	6.5	2.1	T	0.0	0.0	17.2
2004-05	0.0	0.0	0.0	0.0	5.3	0.9	18.9	3.5	3.2	T	T	T	31.8
2005-06	0.0	0.0	0.0	0.0	1.2	12.1	5.1	1.7	6.2	0.3	0.0	0.0	26.6
2006-07	0.0	0.0	T	T	0.1	10.8	7.5	14.9	1.3	2.9	0.0	0.0	37.5
2007-08	0.0	0.0	0.0	0.0	1.0	21.7	17.6	25.8	6.8	T	0.0	0.0	72.9
2008-09	T	0.0	0.0	T	5.2	28.9	12.6	7.8	1.9	0.2	0.0	0.0	56.6
2009-10	0.0	0.0	0.0	T	0.5	25.3	7.0	16.6	1.3	T	0.0	0.0	50.7
2010-11	0.0	0.0	0.0	0.0	T	19.2	12.1	20.2	0.1	T	T	0.0	51.6
2011-12	0.0	0.0	0.0	0.0	T	1.7	12.4	7.2	3.0	T	0.0	0.0	24.3
2012-	0.0	0.0	0.0	0.0	T	2.1							
POR= 60 YRS	T	T	T	0.1	2.3	9.7	9.3	7.5	5.8	1.1	T	T	35.8

WBAN : 94822

### REFERENCE NOTES :

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).

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).

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.

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

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES

3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

#### NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.

- 1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.
- 2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at:  
<http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt>.

# 2012 ROCKFORD ILLINOIS (KRFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

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

# Station History

ROCKFORD, IL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ROCKFORD GREATER ROCKFORD AP	1995-07-01	1997-07-01	42° 11'	-89° 5'	733		ASOS, COOP, WXSVC
GREATER ROCKFORD AP	1950-09-01	1950-12-01	42° 12'	-89° 6'	725		AIRWAYS
ROCKFORD CAA AP	1950-12-01	1950-12-19	42° 12'	-89° 6'	724		AIRWAYS, COOP
ROCKFORD GREATER ROCKFORD AP	2004-01-01	Present	42° 11'	-89° 5'	730		ASOS, COOP, WXSVC
ROCKFORD GREATER ROCKFORD AP	1997-07-01	2004-01-01	42° 11'	-89° 5'	733	.7 MI W	ASOS, COOP, WXSVC
ROCKFORD GREATER ROCKFORD AP	1973-01-01	1995-07-01	42° 12'	-89° 6'	724		COOP, WXSVC
ROCKFORD GREATER ROCKFORD AP	1950-12-19	1973-01-01	42° 12'	-89° 6'	724		AIRWAYS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	1997-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1997-07-01	HOURLY	2400	UNIV	RCRD	
SNOWDPTH	2004-01-01	2013-01-01	DAILY	2400	SNOWSTICK		
SNOWDPTH	2013-01-01	Present	DAILY	2400	SNOWSTICK	SHLD	
TEMP	1986-09-18	1995-07-01	DAILY	2400	MXMN		
PRECIP	1986-09-18	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	1997-07-01	DAILY	2400	MXMN		
PRECIP	1997-07-01	1997-07-15	HOURLY		UNIV	RCRD	
MAX/MINTEM	1999-08-01	2004-01-01	DAILY	0800	PALMER		
MAX/MINTEM	1999-08-01	2004-01-01	DAILY	0800	PALMER		
PRECIP	2004-01-01	2013-01-01	DAILY	2400	PCPNX		
TEMP	2004-01-01	2013-01-01	DAILY	2400	ATEMP		
TEMP	1950-09-01	1963-08-01	DAILY	2400			
TEMP	1963-08-01	1986-09-18	DAILY	2400			
PRECIP	2013-01-01	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	1950-09-01	1963-08-01	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1997-07-15	1999-08-01	DAILY	0800	PALMER		
MAX/MINTEM	1997-07-15	1999-08-01	DAILY	0800	PALMER		
TEMP	2013-01-01	Present	DAILY	2400	ATEMP	SHLD	
PRECIP	2013-01-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1963-08-01	1986-09-18	HOURLY	2400			
PRECIP	1997-07-01	1997-07-15	DAILY	0800	UNIV	RCRD	
TEMP	1997-07-15	1999-08-01	DAILY	0800	MXMN		
PRECIP	1997-07-15	1999-08-01	HOURLY		UNIV	RCRD	
PRECIP	1999-08-01	2004-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1997-07-01	1997-07-15	DAILY	0800	MXMN		
PRECIP	2004-01-01	2013-01-01	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1963-08-01	1986-09-18	DAILY	2400	UNIV	RCRD	
PRECIP	1986-09-18	1995-07-01	HOURLY	2400			
PRECIP	1997-07-15	1999-08-01	DAILY	0800	UNIV	RCRD	
PRECIP	1999-08-01	2004-01-01	HOURLY		UNIV	RCRD	
TEMP	1999-08-01	2004-01-01	DAILY	2400	MXMN		

\* 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>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

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NOAA/National Climatic Data Center

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