

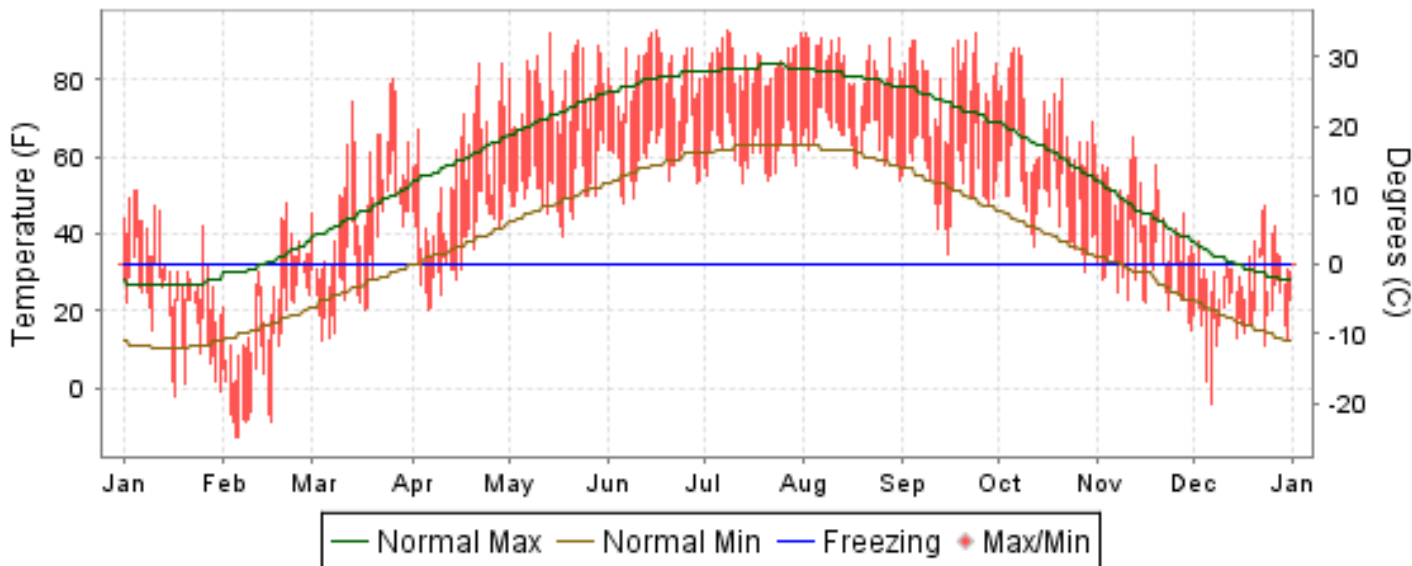


# 2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

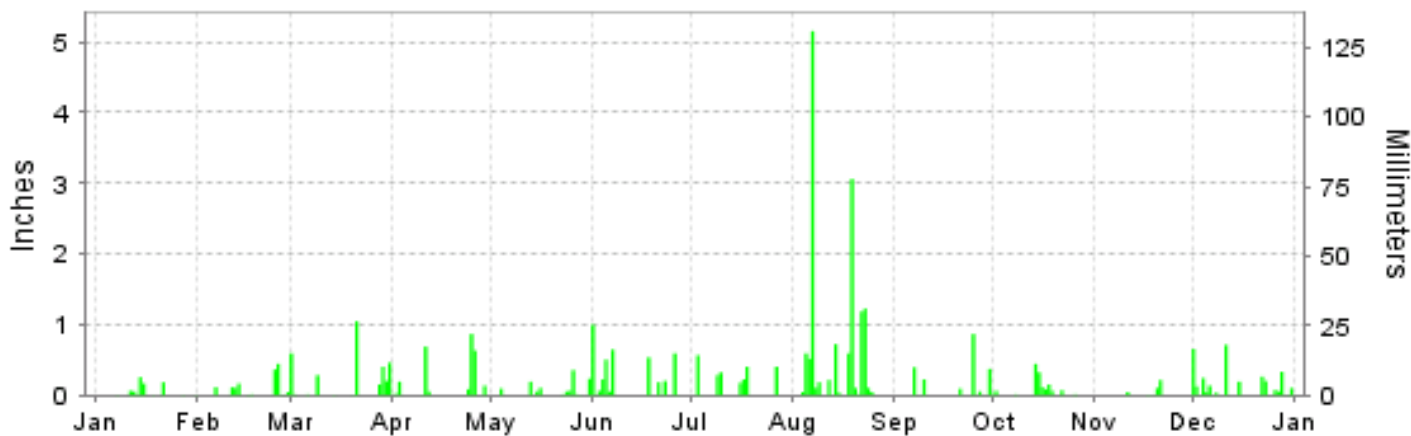
ISSN 0198-1900

## ROCKFORD, ILLINOIS (KRFD)

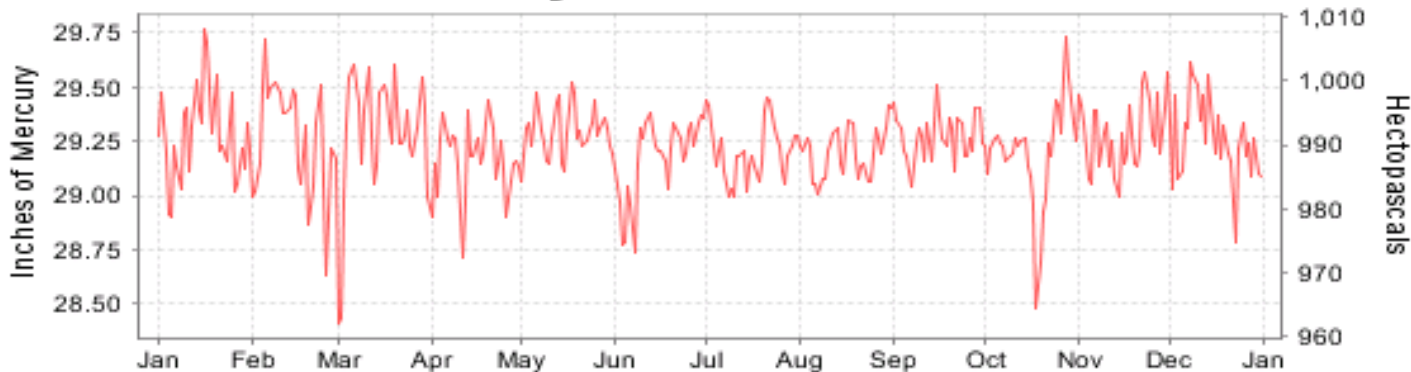
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2007

## 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	33.1	23.5	51.8	57.7	77.8	81.6	84.6	83.8	80.0	69.1	47.2	31.4	60.1	
	HIGHEST DAILY MAXIMUM	51	48	80	84	92	93	93	92	92	88	65	47	93	
	DATE OF OCCURRENCE	05+	21	26	29+	14	16	08	02	24	07+	12	23	JUL 08	
	MEAN DAILY MINIMUM	18.5	8.3	33.2	36.8	52.0	60.0	61.8	65.3	53.9	47.8	29.3	18.7	40.5	
	LOWEST DAILY MINIMUM	-2	-13	12	20	39	48	53	54	35	30	15	-4	-13	
	DATE OF OCCURRENCE	17	06+	04	06	18	06	13	31	15	28	30	06	FEB 06+	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	24.1	14.6	38.2	40.9	55.4	62.9	65.1	68.0	59.0	52.1	34.0	23.8	44.8	
	MEAN DEW POINT	19.1	7.9	32.4	32.5	46.5	57.5	60.0	64.5	52.8	46.5	26.3	20.0	38.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	4	4	7	5	0	0	0	0	22
	MAXIMUM <= 32°	18	18	5	0	0	0	0	0	0	0	1	19	61	
	MINIMUM <= 32°	28	28	16	12	0	0	0	0	0	1	21	29	135	
MINIMUM <= 0°	2	10	0	0	0	0	0	0	0	0	0	1	13		
H/C	HEATING DEGREE DAYS	1207	1368	698	529	82	13	0	4	69	252	796	1230	6248	
	COOLING DEGREE DAYS	0	0	9	3	89	197	264	305	136	56	0	0	1059	
RH	MEAN (PERCENT)	74	68	69	60	54	65	66	74	64	67	63	80	67	
	HOUR 00 LST	78	71	73	69	63	76	81	84	76	76	68	82	75	
	HOUR 06 LST	80	74	79	75	69	77	80	87	83	81	75	80	78	
	HOUR 12 LST	69	63	60	48	42	51	50	60	46	53	51	78	56	
	HOUR 18 LST	72	65	64	49	43	54	52	65	53	61	59	80	60	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	3	0	0	2	0	0	0	1	1	5	12	
	THUNDERSTORMS	0	0	5	3	2	8	6	11	4	0	2	0	41	
CLOUDNESS	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.)	29.26	29.26	29.28	29.17	29.30	29.36	29.21	29.20	29.27	29.21	29.28	29.26	29.26	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.10	30.09	29.98	30.10	29.97	29.99	29.98	30.07	30.00	30.11	30.09	30.05	
WINDS	RESULTANT SPEED (MPH)	5.1	2.9	1.4	2.1	2.6	1.7	1.7	1.1	3.1	2.6	3.0	1.4	1.6	
	RES. DIR. (TENS OF DEGS.)	26	29	18	33	16	18	23	16	20	22	28	28	24	
	MEAN SPEED (MPH)	10.6	10.6	10.6	11.4	10.0	7.0	6.5	6.0	7.5	9.1	9.5	8.8	9.0	
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	20	31	18	09	21	17	18	17	29	17	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	33	36	35	37	38	31	38	41	39	32	33	41	
	DIR. (TENS OF DEGS.)	29	29	02	18	18	21	26	31	26	21	32	26	26	
	DATE OF OCCURRENCE	09	22	14	22	24	07	10	14	21	18	05	23	SEP 21	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	36	40	43	44	46	46	44	54	53	47	45	44	54	
DIR. (TENS OF DEGS.)	30	10	26	26	18	21	26	31	26	21	30	26	31		
DATE OF OCCURRENCE	09	24	02	23	24	07	10	14	21	18	05	23	AUG 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.34	0.73	1.06	0.93	0.43	1.00	0.62	5.67	0.87	0.45	0.29	0.72	5.67	
	DATE OF OCCURRENCE	14-15	24-25	20-21	24-25	25-26	01	09-10	06-07	25	15-16	20-21	11	AUG 06-07	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	10	10	11	9	11	11	8	17	6	11	5	15	124	
PRECIPITATION 0.10	3	6	7	5	5	8	7	13	5	4	2	10	75		
PRECIPITATION 1.00	0	0	1	0	0	1	0	4	0	0	0	0	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	7.5	14.9	1.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	21.7	49.3	
	GREATEST 24-HOUR (IN.)	2.8	3.6	0.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.2	5.2	
	DATE OF OCCURRENCE	15	06	02	11							21	28	DEC 28	
	MAXIMUM SNOW DEPTH (IN.)	5	9	2	2	0	0	0	0	0	0	1	7	9	
	DATE OF OCCURRENCE	22	17+	01	12							22	16	FEB 17+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	5	0	2	0	0	0	0	0	0	1	7	17		

# 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	27.2	33.0	45.5	59.1	71.2	79.9	83.1	80.9	73.9	61.8	45.5	32.0	57.8	
	MEAN DAILY MAXIMUM	57	27.9	32.5	44.2	59.0	70.9	80.0	83.9	81.9	74.5	62.6	46.4	32.7	58.0	
	HIGHEST DAILY MAXIMUM	57	63	70	85	91	95	101	103	104	102	90	76	67	104	
	YEAR OF OCCURRENCE		1989	2000	1986	2002	1975	1988	1955	1988	1953	1997	2000	2001	AUG 1988	
	MEAN OF EXTREME MAXS.	57	47.8	51.4	69.4	80.7	87.1	92.7	94.0	92.6	89.2	81.5	66.6	52.5	75.5	
	NORMAL DAILY MINIMUM	30	10.8	16.3	26.7	36.8	47.9	57.6	62.6	60.9	51.8	40.1	29.0	16.9	38.1	
	MEAN DAILY MINIMUM	57	11.7	16.0	26.0	37.3	47.9	57.6	62.6	60.8	51.8	40.6	29.1	17.5	38.2	
	LOWEST DAILY MINIMUM	57	-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.	57	-11.0	-5.7	7.0	21.4	33.2	44.5	50.9	49.2	35.9	25.3	12.1	-5.2	21.5	
	NORMAL DRY BULB	30	19.0	24.7	36.1	47.9	59.6	68.8	72.9	70.9	62.8	51.0	37.2	24.4	47.9	
	MEAN DRY BULB	57	19.8	24.3	35.1	48.1	59.4	68.9	73.2	71.3	63.1	51.6	37.7	25.1	48.1	
	MEAN WET BULB	24	20.2	23.3	32.6	42.5	52.9	62.1	66.3	65.1	57.2	45.8	34.6	24.0	43.9	
	MEAN DEW POINT	24	16.8	19.6	27.6	36.7	47.9	58.1	63.1	62.3	53.7	41.7	30.9	20.7	39.9	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.5	3.4	5.6	3.4	1.1	0.1	0.0	0.0	14.2	
	MAXIMUM <= 32	30	19.6	13.5	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.4	14.2	55.3	
	MINIMUM <= 32	30	29.6	25.6	22.4	9.1	0.9	0.0	0.0	0.0	0.6	7.0	19.7	28.2	143.1	
MINIMUM <= 0	30	8.3	4.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.1	17.5		
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1430	1143	912	522	215	36	5	14	136	444	832	1244	6933	
	NORMAL COOLING DEG. DAYS	30	0	0	1	7	49	162	263	205	74	7	0	0	768	
<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	56	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)	44	2.5	2.0	2.5	1.0	0.9	0.6	1.1	1.6	1.6	1.6	2.0	2.9	20.3	
	THUNDERSTORMS	52	0.2	0.5	2.0	4.1	5.8	8.0	7.6	6.5	4.7	2.3	1.1	0.3	43.1	
<b>CLOUDNESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR			1.0	1.0		1.0									
	PARTLY CLOUDY CLOUDY				1.0		1.0									
<b>PR</b>	MEAN STATION PRESSURE (IN)	24	29.27	29.28	29.20	29.17	29.18	29.18	29.21	29.25	29.25	29.26	29.25	29.28	29.23	
	MEAN SEA-LEVEL PRES. (IN)	24	30.14	30.11	30.06	29.97	29.97	29.96	29.99	30.03	30.05	30.06	30.06	30.11	30.04	
<b>WINDS</b>	MEAN SPEED (MPH)	24	10.3	10.3	11.2	11.4	10.0	8.4	7.6	7.1	7.8	9.2	10.3	9.9	9.5	
	PREVAIL. DIR (TENS OF DEGS)	33	31	31	31	19	19	19	19	19	19	19	19	19	19	
	MAXIMUM 2-MINUTE: SPEED (MPH)	12	36	49	44	47	44	47	46	57	41	40	45	39	57	
	DIR. (TENS OF DEGS)		16	22	30	23	16	20	33	29	26	29	24	29	29	
	YEAR OF OCCURRENCE		1996	1999	2004	1997	1997	1998	1998	1998	2007	2001	1998	2004	AUG 1998	
	MAXIMUM 5-SECOND SPEED (MPH)	12	44	68	54	64	54	66	62	74	53	52	56	48	74	
	DIR. (TENS OF DEGS)		17	22	30	26	16	20	32	28	26	23	22	28	28	
YEAR OF OCCURRENCE		1996	1999	2004	1997	1997	1998	2003	1998	2007	1996	1998	2004	AUG 1998		
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.41	1.34	2.39	3.62	4.03	4.80	4.10	4.21	3.47	2.57	2.63	2.06	36.63	
	MAXIMUM MONTHLY (IN)	57	4.66	3.05	5.62	9.92	11.75	11.85	11.81	13.98	10.68	8.32	5.51	5.04	13.98	
	YEAR OF OCCURRENCE		1960	2001	1961	1973	1996	1993	1952	2007	1961	1969	1985	1971	AUG 2007	
	MINIMUM MONTHLY (IN)	57	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)	57	2.89	1.73	2.50	5.55	4.77	6.07	5.03	6.42	5.56	5.22	3.20	2.50	6.42	
	YEAR OF OCCURRENCE		1960	1966	1976	1973	1996	2002	1952	1987	1961	1954	1961	2003	AUG 1987	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.2	8.6	10.9	11.8	12.0	10.1	9.7	9.9	8.8	9.2	10.5	10.5	122.2	
PRECIPITATION >= 1.00	30	0.1	0.1	0.4	0.7	1.2	1.3	1.2	1.1	0.9	0.5	0.5	0.3	8.3		
<b>SNOWFALL</b>	NORMAL (IN)	30	10.3	7.9	5.6	1.4	0.*	0.0	0.0	0.0	0.0	0.1	2.6	10.8	38.7	
	MAXIMUM MONTHLY (IN)	55	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	1994	1990	2006	1967	1951	2000	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	55	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	1960	1972	1970	1990	1996	1994	1990	2006	1967	1951	1987	DEC 1987	
	MAXIMUM SNOW DEPTH (IN)	45	9	13	9	2	0	0	0	0	0	2	8	13	13	
	YEAR OF OCCURRENCE		2005	1956	2002	2007						1993	1961	2006	DEC 2006	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.8	2.4	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1	11.2		

**PRECIPITATION (inches) 2007 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
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
POR= 57 YRS	1.42	1.26	2.41	3.74	3.87	4.51	4.10	4.17	3.54	2.75	2.50	1.88	36.15

WBAN : 94822

**AVERAGE TEMPERATURE (°F) 2007 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.2
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
POR= 57 YRS	19.8	24.3	35.1	48.1	59.4	68.9	73.2	71.3	63.1	51.6	37.7	25.1	48.2

**HEATING DEGREE DAYS (base 65°F) 2007 ROCKFORD (KRFD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
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-	0	4	69	252	796	1230							

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**COOLING DEGREE DAYS (base 65°F) 2007 ROCKFORD (KRFD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
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

**SNOWFALL (inches) 2007 ROCKFORD (KRFD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
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	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-	0.0	0.0	0.0	0.0	1.0	21.7							
POR= 55 YRS	T	T	T	0.1	2.4	9.2	9.0	6.7	6.1	1.2	T	T	34.7

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**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> <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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# 2007 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 Location

# ROCKFORD

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *		
							GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE		8 INCH RAIN GAUGE	
*NOTE:																
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42° 12'	89° 06'	725	33	5	5					3	Observations by CAA personnel.	
Greater Rockford AP	11/05/58	07/01/95	35 ft. E	42° 12'	89° 06'	#724	a20	6	5		e20	b6	c4	d4 f4	First-Order Weather Bureau. #. 728 to 11/10/62 and 727 to 8/22/63. a. 33 to 12/6/62. b. 5 to 11/6/62. c. 3 to 11/6/62. d. Commissioned 8/22/63 1850 feet SSE of instrument shelter. e. Installed 4/25/79. f. Type change 7/17/85.	
Greater Rockford Airport	07/01/95	Present		42° 12'	89° 06'	g728									S ASOS Commissioned 07/01/95 g. Ground Elevation	

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