

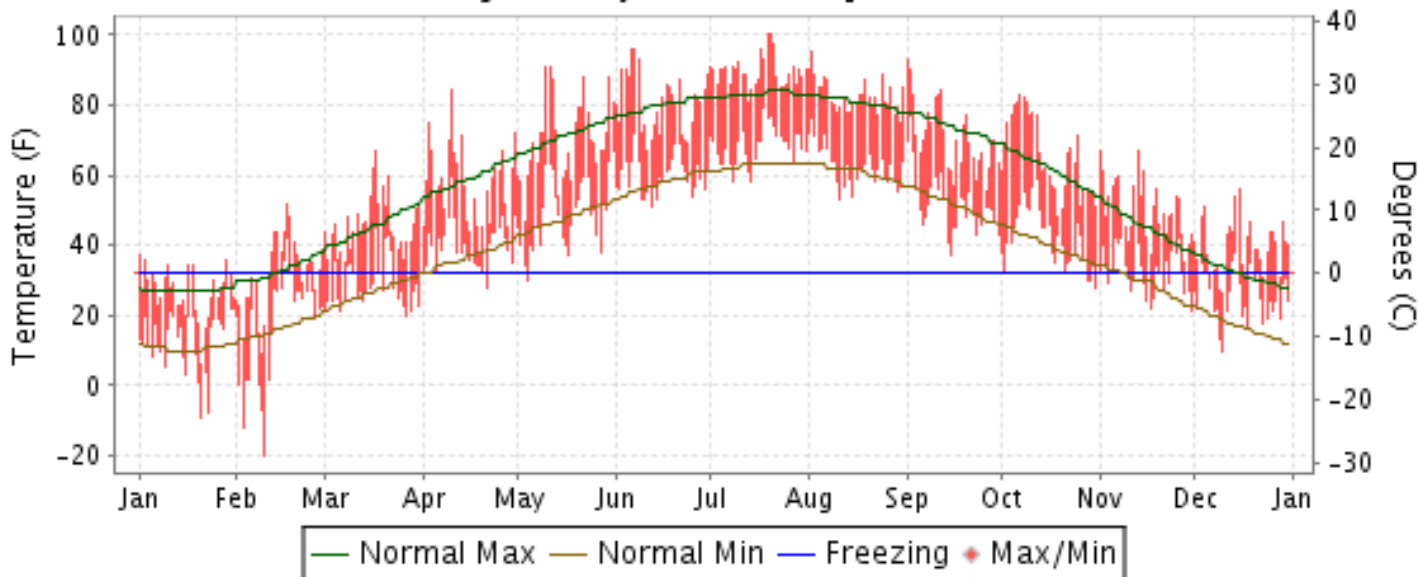


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

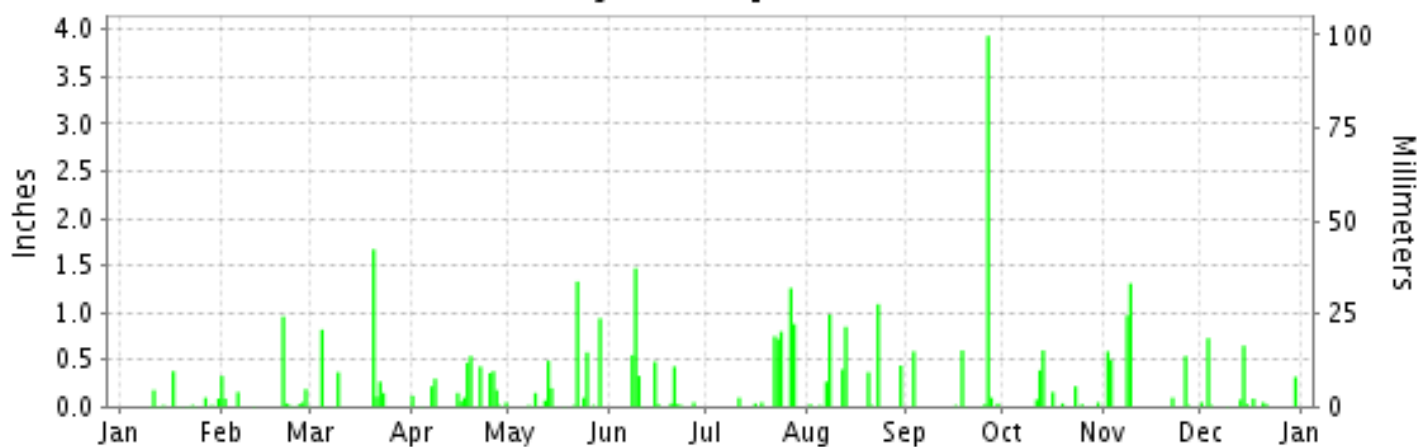
ISSN 0198-1900

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
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NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

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	26.7	32.0	46.1	57.7	70.4	80.7	89.6	82.6	70.9	65.5	50.5	39.7	59.4	
	HIGHEST DAILY MAXIMUM	37	52	67	84	91	96	100	95	93	83	67	56	100	
	DATE OF OCCURRENCE	01	17	17	10	10+	07+	20+	02	01	07	13+	15	JUL 20+	
	MEAN DAILY MINIMUM	13.1	17.3	28.6	40.1	48.9	59.8	68.3	62.5	52.0	42.0	32.6	25.4	40.9	
	LOWEST DAILY MINIMUM	-9	-20	20	28	30	51	58	53	37	28	21	10	-20	
	DATE OF OCCURRENCE	21	10	27	21	04	12	14	11	15	31	30	10	FEB 10	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	18.0	23.0	32.7	43.1	53.6	63.6	70.5	66.2	54.8	47.0	38.0	30.3	45.1	
	MEAN DEW POINT	11.4	17.0	24.8	36.5	47.8	59.1	65.9	62.7	51.0	40.9	32.5	25.6	39.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	5	16	2	2	0	0	0	0	27
MAXIMUM <= 32°	25	13	0	0	0	0	0	0	0	0	0	6	44		
MINIMUM <= 32°	31	26	23	3	1	0	0	0	0	3	14	26	127		
MINIMUM <= 0°	2	5	0	0	0	0	0	0	0	0	0	0	7		
H/C	HEATING DEGREE DAYS	1391	1123	849	483	231	12	0	0	166	356	698	1000	6309	
	COOLING DEGREE DAYS	0	0	0	7	72	178	440	242	66	14	0	0	1019	
RH	MEAN (PERCENT)	69	69	63	66	67	69	67	73	72	67	71	76	69	
	HOUR 00 LST	72	72	70	72	75	78	78	86	80	77	76	80	76	
	HOUR 06 LST	74	73	73	75	78	81	82	88	85	83	80	81	79	
	HOUR 12 LST	63	65	53	56	58	57	53	58	60	48	63	67	58	
	HOUR 18 LST	66	67	56	59	57	58	56	63	65	60	69	74	63	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	1	1	1	1	1	2	0	1	0	2	12	
	THUNDERSTORMS	0	0	5	3	7	6	7	7	2	1	0	0	38	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.26	29.23	29.32	29.03	29.12	29.11	29.17	29.14	29.23	29.22	29.20	29.31	29.20	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.06	30.14	29.84	29.91	29.90	29.96	29.93	30.02	30.02	30.01	30.14	30.00	
WINDS	RESULTANT SPEED (MPH)	2.9	0.6	3.3	1.3	2.1	2.9	2.0	0.9	2.4	1.7	1.7	2.5	0.3	
	RES. DIR. (TENS OF DEGS.)	29	30	05	05	08	18	19	26	35	28	21	23	26	
	MEAN SPEED (MPH)	8.3	9.6	9.1	11.3	10.3	8.5	6.1	5.1	7.9	7.2	10.6	8.4	8.5	
	PREVAIL.DIR.(TENS OF DEGS.)	31	20	07	07	02	17	20	19	02	17	19	18	19	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	28	37	29	36	45	55	35	25	46	31	33	29	55	
	DIR. (TENS OF DEGS.)	26	04	32	17	27	31	36	18	30	31	21	29	31	
	DATE OF OCCURRENCE	01	01	22	30	22	08	24	02	29	13	13	15	JUN 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	48	40	48	61	69	49	33	58	41	44	38	69	
DIR. (TENS OF DEGS.)	24	02	28	08	27	31	26	29	30	01	21	30	31		
DATE OF OCCURRENCE	01	01	12	15	22	08	11	23	29	19	13	15	JUN 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.38	0.96	1.67	0.73	1.33	2.02	1.63	1.09	3.95	0.95	1.37	0.73	3.95	
	DATE OF OCCURRENCE	17	20	20	25-26	22	08-09	27-28	23	26-27	12-13	08-09	03	SEP 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	14	12	8	16	13	11	8	10	9	9	7	11	128	
PRECIPITATION 0.10	3	4	6	11	7	5	6	7	4	4	6	3	66		
PRECIPITATION 1.00	0	0	1	0	1	1	1	1	1	0	1	0	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	12.1	20.2	0.1	T	T	0.0	0.0	0.0	0.0	0.0	T	1.7	34.1	
	GREATEST 24-HOUR (IN.)	4.2	10.9	0.1	T	T	0.0	0.0	0.0	0.0	0.0	T	1.6	10.9	
	DATE OF OCCURRENCE	17	01	05	18+	22						10+	17	FEB 01	
	MAXIMUM SNOW DEPTH (IN.)	5	19	T	T	0	0	0	0	0	0	0	2	19	
	DATE OF OCCURRENCE	28	06+	24+	18								17	FEB 06+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	3	0	0	0	0	0	0	0	0	0	1	8		

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	
TEMPERATURE °F	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	61	27.7	32.5	44.4	59.1	70.9	80.0	83.9	81.8	74.5	62.6	46.6	32.7	58.1	
	HIGHEST DAILY MAXIMUM	61	63	70	85	91	95	101	103	104	102	90	76	67	104	
	YEAR OF OCCURRENCE		2008	2000	1986	2002	1975	1988	1955	1988	1953	2010	2000	2001	AUG 1988	
	MEAN OF EXTREME MAXS.	61	47.6	51.1	69.4	80.8	87.1	92.6	93.8	92.5	89.3	81.6	66.9	52.6	75.4	
	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	61	11.6	16.1	26.2	37.4	47.9	57.7	62.6	60.8	51.9	40.7	29.3	17.4	38.3	
	LOWEST DAILY MINIMUM	61	-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.	61	-11.3	-5.8	7.5	21.8	33.1	44.9	51.0	49.3	36.3	25.4	12.6	-4.9	21.7	
	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	61	19.7	24.3	35.3	48.3	59.4	69.0	73.3	71.4	63.2	51.6	38.0	25.1	48.2	
	MEAN WET BULB	28	19.0	22.4	31.7	41.6	51.9	61.6	65.8	64.6	56.6	45.0	34.1	23.2	43.1	
	MEAN DEW POINT	28	16.8	20.0	28.4	37.8	48.6	58.8	63.6	62.7	54.2	42.3	31.9	21.0	40.5	
	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		
H/C	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	
RH	NORMAL (PERCENT)	30	78	76	71	66	66	68	72	76	74	72	77	80	73	
	hour 00 LST	30	81	81	78	74	76	79	84	88	86	82	81	82	81	
	hour 06 LST	30	82	83	83	80	81	82	87	91	91	87	84	84	85	
	hour 12 LST	30	72	68	62	55	54	55	58	60	57	57	67	73	62	
	hour 18 LST	30	77	73	65	55	55	56	60	64	65	65	73	78	66	
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	2.4	2.1	2.5	0.9	0.9	0.6	1.1	1.5	1.6	1.6	1.9	3.0	20.1	
	THUNDERSTORMS	56	0.2	0.5	2.1	4.1	5.8	8.0	7.6	6.5	4.6	2.2	1.1	0.3	43.0	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
PR	MEAN STATION PRESSURE(IN)	28	29.27	29.28	29.21	29.16	29.17	29.17	29.20	29.24	29.25	29.26	29.25	29.28	29.23	
	MEAN SEA-LEVEL PRES. (IN)	28	30.13	30.11	30.06	29.97	29.97	29.95	29.99	30.03	30.05	30.06	30.06	30.11	30.04	
WINDS	MEAN SPEED (MPH)	28	10.1	10.1	10.9	11.3	9.9	8.3	7.4	6.9	7.6	9.0	10.2	9.8	9.3	
	PREVAIL.DIR(TENS OF DEGS)	37	31	31	31	07	19	19	19	19	19	19	19	19	19	
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	38	49	44	47	45	55	46	57	46	44	45	39	57	
	DIR. (TENS OF DEGS)		30	22	30	23	27	31	33	29	30	23	24	29	29	
	YEAR OF OCCURRENCE		2008	1999	2004	1997	2011	2011	1998	1998	2011	2010	1998	2004	AUG 1998	
	MAXIMUM 3-SECOND SPEED (MPH)	16	48	68	67	64	63	69	62	74	58	58	56	51	74	
	DIR. (TENS OF DEGS)		30	22	19	26	19	31	32	28	30	26	22	35	28	
YEAR OF OCCURRENCE		2008	1999	2009	1997	2008	2011	2003	1998	2011	2010	1998	2010	AUG 1998		
PRECIPITATION	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)	61	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)	61	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)	61	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	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		
SNOWFALL	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)	59	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)	59	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)	49	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	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) 2011 ROCKFORD (KRFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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
POR= 61 YRS	1.38	1.31	2.47	3.76	3.88	4.59	4.23	4.15	3.55	2.77	2.47	1.94	36.50

WBAN : 94822

AVERAGE TEMPERATURE (°F) 2011 ROCKFORD (KRFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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
POR= 61 YRS	19.7	24.3	35.3	48.3	59.4	69.0	73.3	71.4	63.2	51.6	38.0	25.1	48.2

HEATING DEGREE DAYS (base 65°F) 2011 ROCKFORD (KRFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2007-08	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-	0	0	166	356	698	1000							

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COOLING DEGREE DAYS (base 65°F) 2011 ROCKFORD (KRFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
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

SNOWFALL (inches) 2011 ROCKFORD (KRFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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		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-	0.0	0.0	0.0	0.0	T	1.7							
POR= 59 YRS	T	T	T	0.1	2.3	9.8	9.2	7.5	5.9	1.1	T	T	35.9

WBAN : 94822

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: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: 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 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
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
ROCKFORD GREATER ROCKFORD AP	1995-07-01	1997-07-01	42° 11'	-89° 5'	733		ASOS, COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1963-08-01	1986-09-18	HOURLY	2400			
PRECIP	1997-07-01	1997-07-15	DAILY	0800	UNIV	RCRD	
PRECIP	1997-07-15	1999-08-01	HOURLY		UNIV	RCRD	
TEMP	1997-07-15	1999-08-01	DAILY	0800	MXMN		
PRECIP	1999-08-01	2004-01-01	DAILY	2400	UNIV	RCRD	
TEMP	2004-01-01	Present	DAILY	2400	HYGR		
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		
PRECIP	1995-07-01	1997-07-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1997-07-01	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1999-08-01	2004-01-01	ONCE DAILY	0800	PALMER		
PRECIP	2004-01-01	Present	HOURLY	2400	TB	RCRD	
SNOWDEPTH	2004-01-01	Present	DAILY	2400	SNOWSTICK		
PRECIP	1986-09-18	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1986-09-18	1995-07-01	DAILY	2400	MXMN		
TEMP	1995-07-01	1997-07-01	DAILY	2400	MXMN		
PRECIP	1997-07-01	1997-07-15	HOURLY		UNIV	RCRD	
PRECIP	2004-01-01	Present	DAILY	2400	PCPN1		
PRECIP	1950-09-01	1963-08-01	DAILY	2400	UNIV	RCRD	
TEMP	1950-09-01	1963-08-01	DAILY	2400			
TEMP	1963-08-01	1986-09-18	DAILY	2400			
MAX/MINTEM	1997-07-15	1999-08-01	ONCE DAILY	0800	PALMER		
MAX/MINTEM	1999-08-01	2004-01-01	ONCE DAILY	0800	PALMER		
TEMP	1997-07-01	1997-07-15	DAILY	0800	MXMN		
MAX/MINTEM	1997-07-15	1999-08-01	ONCE DAILY	0800	PALMER		

* 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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

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