

2002

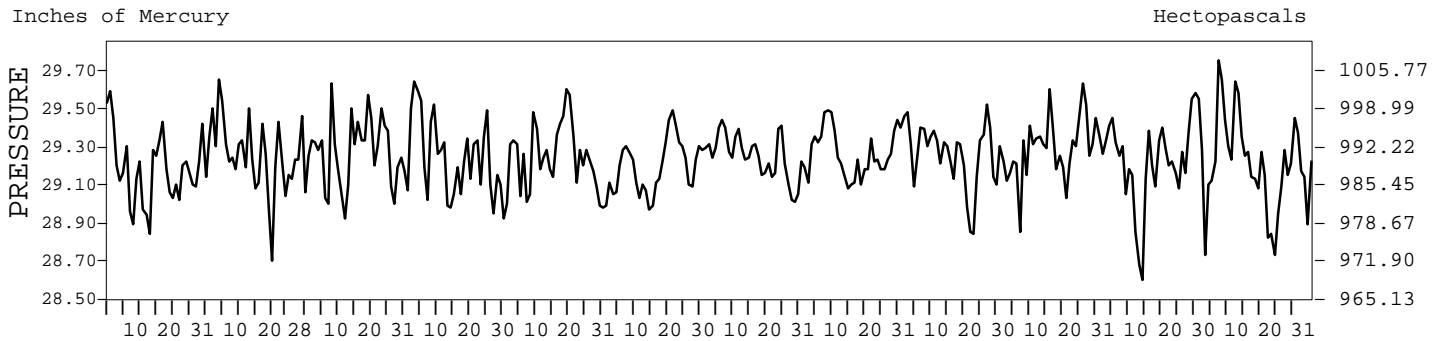
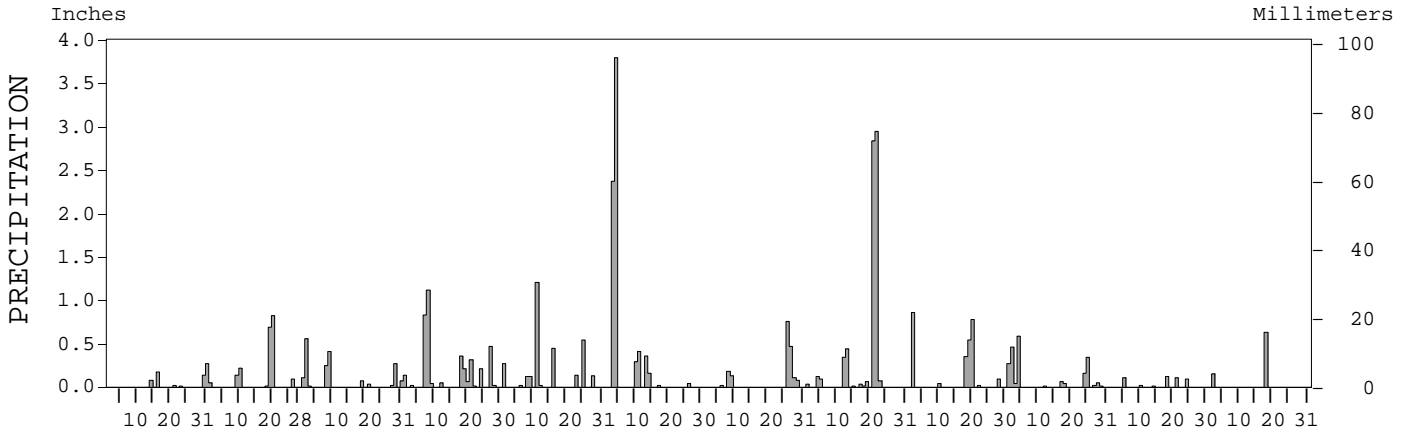
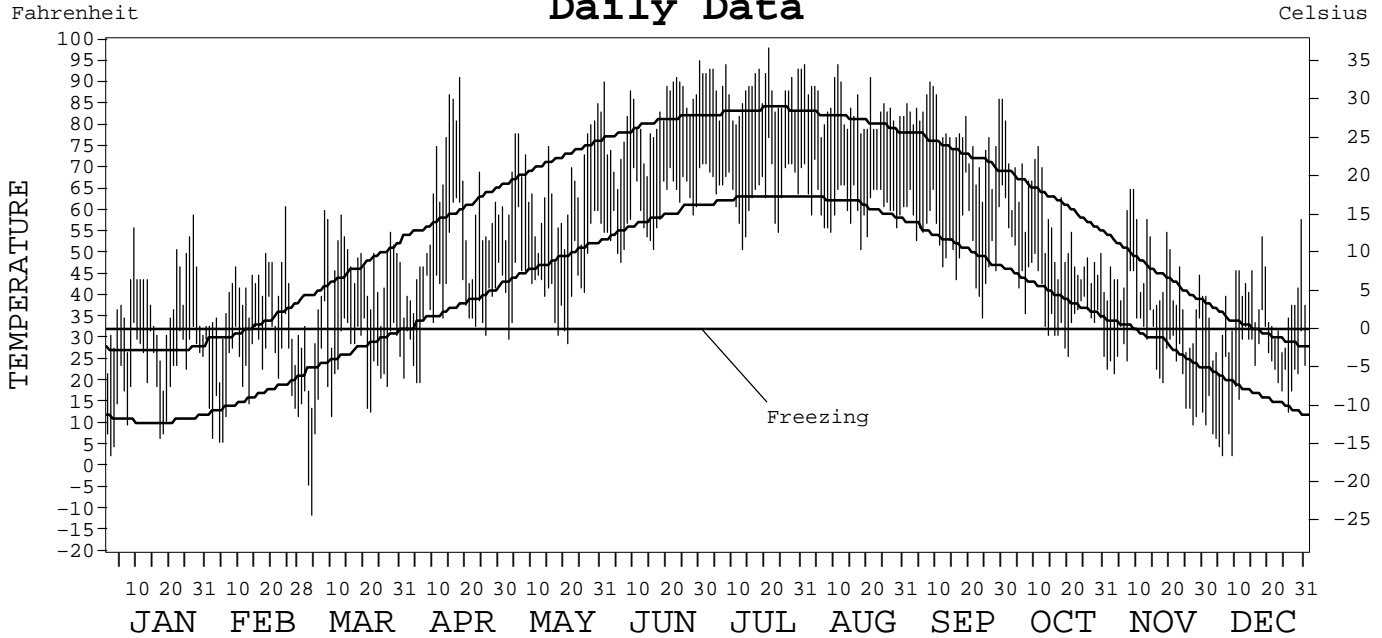
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1900

## ROCKFORD, ILLINOIS (RFD)

### Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2002

## ROCKFORD, IL (RFD)

LATITUDE: 42° 11' 46" N      LONGITUDE: 89° 05' 33" W      ELEVATION (FT): GRND: 728      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	38.2	39.5	43.3	58.4	65.5	81.4	88.3	83.9	78.4	56.5	44.2	37.0	59.5	
	HIGHEST DAILY MAXIMUM	59	61	60	91	85	95	98	94	90	81	65	58	98	
	DATE OF OCCURRENCE	27	24	08	18	30	30	21	11+	08	01	09+	30	JUL 21	
	MEAN DAILY MINIMUM	21.7	22.6	22.7	38.9	44.1	59.9	65.3	61.2	53.6	39.5	26.8	20.5	39.7	
	LOWEST DAILY MINIMUM	3	6	-11	20	29	48	51	51	35	26	10	3	-11	
	DATE OF OCCURRENCE	02	05+	04	06+	21	06	13	18	24	31+	27	09+	MAR 04	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	27.3	28.6	29.2	43.4	49.2	64.2	68.8	66.0	59.9	43.6	32.4	26.3	44.9	
	MEAN DEW POINT	22.0	23.1	22.6	37.3	42.8	59.9	64.2	62.1	55.3	38.4	26.9	20.6	39.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	0	5	12	5	1	0	0	0	24	
	MAXIMUM ≤ 32°	9	5	5	0	0	0	0	0	0	0	3	10	32	
	MINIMUM ≤ 32°	29	23	25	7	4	0	0	0	0	6	21	28	143	
MINIMUM ≤ 0°	0	0	2	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1080	945	984	517	336	21	0	0	69	526	876	1118	6472	
	COOLING DEGREE DAYS	0	0	0	34	28	198	375	243	105	7	0	0	990	
RH	MEAN (PERCENT)	73	72	69	68	65	71	68	72	71	72	72	71	70	
	HOUR 00 LST	77	74	75	74	75	82	80	87	83	79	76	75	78	
	HOUR 06 LST	81	81	79	81	78	85	85	90	91	85	81	79	83	
	HOUR 12 LST	65	65	61	60	56	58	53	54	53	61	63	63	59	
	HOUR 18 LST	70	68	60	58	52	58	53	60	59	66	68	69	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	2	2	2	0	0	1	1	0	2	1	1	12	
	THUNDERSTORMS	0	0	2	4	6	8	6	7	5	2	0	1	41	
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.)	29.18	29.25	29.27	29.25	29.23	29.19	29.25	29.28	29.24	29.30	29.20	29.22	29.24	
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	30.07	30.09	30.05		29.98	30.03	30.06	30.03	30.11	30.01	30.04		
WINDS	RESULTANT SPEED (MPH)	3.4	4.9	1.3	2.3	1.1	2.2	1.2	1.5	1.7	1.0	3.8	3.0	1.7	
	RES. DIR. (TENS OF DEGS.)	24	25	31	21	18	19	19	17	17	33	27	25	23	
	MEAN SPEED (MPH)	9.5	11.5	12.3	11.1	10.2	7.9	7.2	7.1	6.7	8.7	9.0	9.8	9.2	
	PREVAIL. DIR. (TENS OF DEGS.)	20	18	20	18	19	20	17	06	17	29	26	27	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	29	33	37	38	39	31	26	33	26	37	32	32	39	
	DIR. (TENS OF DEGS.)	24	01	29	31	26	18	23	28	19	26	29	17	26	
	DATE OF OCCURRENCE	25	10	10+	18	08	10	08	12	30+	04	30	18	MAY 08	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	37	43	48	47	51	46	30	44	35	48	37	40	51	
DIR. (TENS OF DEGS.)	30	01	26	15	26	16	28	29	19	26	33	18	26		
DATE OF OCCURRENCE	12	10	09	18	08	10	28+	12	23	04	30	18	MAY 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.27	1.03	0.56	1.14	1.23	6.07	0.76	5.79	1.32	0.73	0.12	0.63	6.07	
	DATE OF OCCURRENCE	31	19-20	02	08-09	11-12	03-04	26	21-22	19-20	01-02	18	18	JUN 03-04	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	6	7	10	14	10	8	7	12	7	12	6	2	101	
PRECIPITATION ≥ 0.10	3	4	5	8	8	6	5	5	4	5	3	2	58		
PRECIPITATION ≥ 1.00	0	0	0	1	1	2	0	2	0	0	0	0	6		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	10.4	2.3	12.5	1.3	T	T	0.0	0.0	0.0	T	2.7	1.8	31.0	
	GREATEST 24-HOUR (IN.)	4.8	1.8	8.1	1.1	T	T	0.0	0.0	0.0	T	2.7	1.8	8.1	
	DATE OF OCCURRENCE	30	26	02	01	06	03				24	24	02	MAR 02	
	MAXIMUM SNOW DEPTH (IN.)			9											
	DATE OF OCCURRENCE			03											
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	3	1	3	1	0	0	0	0	0	0	1	1	10		

# NORMALS, MEANS, AND EXTREMES

## ROCKFORD, IL (RFD)

LATITUDE: 42° 11' 46" N      LONGITUDE: 89° 05' 33" W      ELEVATION (FT): GRND: 728      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	49	50.5	56.5	64.4	73.9	82.4	91.1	92.5	90.3	83.8	74.1	61.3	52.4	72.8
	HIGHEST DAILY MAXIMUM	52	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.	49	70.6	75.3	81.4	89.1	95.5	101.7	101.1	99.0	95.8	88.7	78.5	71.1	87.3
	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	49	24.6	29.5	35.6	44.6	54.3	63.5	67.6	65.9	58.3	46.5	34.1	26.1	45.9
	LOWEST DAILY MINIMUM	52	-27	-24	-11	5	24	37	43	41	27	15	-10	-24	-27
	YEAR OF OCCURRENCE		1982	1996	2002	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
	MEAN OF EXTREME MINS.	49	6.4	12.7	20.2	30.2	41.5	52.9	60.7	59.0	46.8	33.0	19.0	10.3	32.7
	NORMAL DRY BULB	30	18.2	22.9	35.0	47.7	59.1	68.8	73.2	70.9	63.1	51.5	38.0	24.0	47.7
	MEAN DRY BULB	49	37.5	42.9	50.1	59.2	68.3	77.5	79.9	78.2	71.1	60.3	47.6	39.2	59.3
	MEAN WET BULB	19	29.4	35.6	38.7	46.0	54.6	62.3	65.6	65.5	58.9	49.1	38.2	30.4	47.9
	MEAN DEW POINT	19	21.1	25.1	26.3	32.4	43.4	53.6	58.1	59.5	51.8	40.2	28.9	22.2	38.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.6	3.0	5.9	3.5	1.1	0.1	0.0	0.0	14.3	
MAXIMUM ≤ 32°	30	19.5	14.4	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	15.1	56.3	
MINIMUM ≤ 32°	30	29.6	26.2	23.2	9.3	1.3	0.0	0.0	0.0	0.4	6.8	19.3	28.0	144.1	
MINIMUM ≤ 0°	30	9.6	5.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.4	19.7	
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	75	74	71	66	65	66	70	74	74	71	75	78	72
	HOUR 00 LST	30	78	78	78	74	75	77	83	86	85	81	81	81	80
	HOUR 06 LST	30	79	81	82	80	80	81	86	90	90	86	83	82	83
	HOUR 12 LST	30	70	66	62	55	53	54	56	58	58	57	66	72	61
	HOUR 18 LST	30	74	70	65	55	54	54	58	62	64	64	73	77	64
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	52	2.8	2.5	2.6	1.2	1.0	0.6	1.3	1.9	1.7	2.0	2.2	3.1	22.9
	THUNDERSTORMS	52	0.1	0.4	2.0	4.3	5.6	7.7	7.8	6.3	4.7	2.4	1.1	0.3	42.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1		1.0	1.0		1.0									
PARTLY CLOUDY	1			1.0		1.0									
CLOUDY	1			2.0											
PR	MEAN STATION PRESSURE (IN)	30	29.28	29.28	29.21	29.17	29.17	29.17	29.21	29.25	29.26	29.26	29.24	29.29	29.23
	MEAN SEA-LEVEL PRES. (IN)	19	30.08	30.01	29.96	29.89	29.82	29.85	29.92	29.95	29.95	30.00	30.03	30.07	29.96
WINDS	MEAN SPEED (MPH)	35	10.4	10.5	11.6	11.6	10.2	9.1	7.9	7.6	8.3	9.4	10.3	10.1	9.8
	PREVAIL. DIR (TENS OF DEGS)	28	30	18	30	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	36	49	41	47	44	47	46	57	37	40	45	35	57
	DIR. (TENS OF DEGS)		16	22	23	23	16	20	33	29	07	29	24	26	29
	YEAR OF OCCURRENCE		1996	1999	1996	1997	1997	1998	1998	1998	2001	2001	1998	2001	AUG 1998
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	7	44	68	52	64	54	66	61	74	46	52	56	47	74
DIR. (TENS OF DEGS)		17	22	22	26	16	20	33	28	06	23	22	27	28	
YEAR OF OCCURRENCE		1996	1999	1996	1997	1997	1998	1998	1998	2001	1996	1998	2001	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)	52	4.66	3.05	5.62	9.92	11.75	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
	YEAR OF OCCURRENCE		1960	2001	1961	1973	1996	1993	1952	1987	1961	1969	1985	1971	AUG 1987
	MINIMUM MONTHLY (IN)	52	0.18	0.04	0.50	0.99	0.48	0.46	0.75	0.67	0.05	0.01	0.38	0.37	0.01
	YEAR OF OCCURRENCE		1961	1969	1996	1989	1992	1988	2001	1970	1979	1952	1976	1976	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	52	2.89	1.73	2.50	5.55	4.77	6.07	5.03	6.42	5.56	5.22	3.20	2.24	6.42
	YEAR OF OCCURRENCE		1960	1966	1976	1973	1996	2002	1952	1987	1961	1954	1961	1971	AUG 1987
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.4	7.9	10.9	11.8	11.3	9.9	9.6	9.3	9.3	9.0	9.7	10.4	118.5	
PRECIPITATION ≥ 1.00	30	0.2	0.1	0.4	0.8	1.0	1.3	1.2	0.9	1.0	0.8	0.5	0.3	8.5	
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)	50	26.1	30.2	22.7	7.7	1.0	T	T	T	0.0	2.2	14.7	30.1	30.2
	YEAR OF OCCURRENCE		1979	1994	1964	1982	1966	1996	1994	1990		1967	1951	2000	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	50	9.9	10.9	10.4	6.7	0.2	T	T	T	0.0	2.2	9.5	11.4	11.4
	YEAR OF OCCURRENCE		1979	1960	1972	1970	1990	1996	1994	1990		1967	1951	1987	DEC 1987
	MAXIMUM SNOW DEPTH (IN)	42	6	13	9	2	0	0	0	0	0	2	8	11	13
	YEAR OF OCCURRENCE		1982	1956	2002	1983						1993	1961	1960	FEB 1956
	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) 2002 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
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	0.96	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
POR= 97 YRS	1.65	1.41	2.46	3.45	3.84	4.50	3.71	3.83	3.87	2.71	2.34	1.69	35.46

WBAN : 94822

AVERAGE TEMPERATURE (°F) 2002 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.1
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
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
POR= 96 YRS	20.7	24.8	35.4	48.3	59.5	69.1	73.7	71.8	63.8	52.2	38.3	25.4	48.6

HEATING DEGREE DAYS (base 65°F) 2002 ROCKFORD, IL (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
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-	0	0	69	526	876	1118							

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COOLING DEGREE DAYS (base 65°F) 2002 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
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

SNOWFALL (inches) 2002 ROCKFORD, IL (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
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-	0.0	0.0	0.0	T	2.7	1.8							
POR= 49 YRS	T	T	0.0	0.1	2.4	9.1	8.8	6.7	6.2	1.3	0.0	T	34.6

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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 (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002  
ROCKFORD,  
ILLINOIS (RFD)

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, ILLINOIS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS	
						SEA LEVEL GROUND TEMPERATURE	GROUND										HYGROMETER
							WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE				
*NOTE: <u>AIRPORT</u> Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.																	
Greater Rockford AP	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.