



DECEMBER 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

ROCKFORD, IL

GREATER ROCKFORD AIRPORT (RFD)

Lat: 42° 11' N Long: 89° 05' W Elev (Ground): 728 Feet

Time Zone: CENTRAL WBAN: 94822 ISSN #:0198-1919

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND (IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0600 LST	1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED	DIR	SPEED	DIR		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	40	10	25	-5	10	22	40	0				0.0	0.00	29.12	29.94	10.6	22	10.9	31	23	28	24	01	
02	35	17	26	-4	17	23	39	0	SN FG+ FZFG BR			1.8	0.15	29.22	30.04	12.8	02	13.2	32	02	28	02	02	
03	25	8	17	-12	7	14	48	0				0.0	0.00	29.75	30.60	3.2	01	4.1	14	01	13	01	03	
04	27	7	17	-12	9	16	48	0	BR			0.0	0.00	29.65	30.50	3.3	01	3.6	13	02	12	02	04	
05	22	5	14*	-14	8	13	51	0	SN BR			T	T	29.44	30.28	5.2	27	6.1	21	29	17	29	05	
06	31	3	17	-11	11	17	48	0	BR			0.0	0.00	29.30	30.14	9.2	21	9.7	23	20	18	20	06	
07	40	26	33	6	24	29	32	0	HZ			0.0	0.00	29.23	30.05	8.3	26	9.2	22	27	18	28	07	
08	27	8	18	-9	9	17	47	0				0.0	0.00	29.64	30.48	6.4	33	7.1	21	02	18	02	08	
09	32	3*	18	-9	7	16	47	0				0.0	0.00	29.58	30.42	6.1	20	6.4	18	21	16	22	09	
10	46	19	33	7	17	26	32	0				0.0	0.00	29.35	30.18	5.1	19	5.6	14	21	13	21	10	
11	46	16	31	5	18	25	34	0	BR			0.0	0.00	29.25	30.07	5.1	19	5.4	15	20	13	21	11	
12	40	30	35	10	30	34	30	0	HZ			0.0	0.00	29.27	30.09	8.0	18	8.1	18	18	15	19	12	
13	43	33	38	13	32	34	27	0	BR HZ			0.0	0.00	29.14	29.96	4.1	36	5.9	17	35	15	35	13	
14	41	30	36	11	28	32	29	0	BR HZ			0.0	0.00	29.13	29.94	4.8	25	8.6	17	21	15	21	14	
15	46	30	38	14	28	34	27	0				0.0	0.00	29.08	29.89	4.4	03	8.5	21	05	17	05	15	
16	34	24	29	5	20	26	36	0	RA			0.0	T	29.27	30.09	11.8	08	12.7	26	10	22	09	16	
17	37	29	33	9	26	30	32	0	RA FZRA BR HZ			0.0	T	29.15	29.96	13.6	11	13.7	31	11	23	10	17	
18	54	37	46*	23	47	48	19	0	TS TSRA RA BR			0.0	0.63	28.82	29.61	16.3	16	17.9	40*	18	32*	17	18	
19	47	33	40	17	32	35	25	0	RA BR HZ			0.0	T	28.84	29.64	8.6	25	9.2	24	26	17	26	19	
20	34	27	31	8	23	29	34	0	SN HZ			0.0	T	28.73	29.54	16.0	26	16.3	35	25	28	26	20	
21	33	25	29	6	21	27	36	0	SN			T	T	28.95	29.76	14.0	27	14.3	38	27	26	28	21	
22	30	23	27	5	17	24	38	0	SN			0.0	T	29.09	29.92	15.8	27	16.2	32	28	28	27	22	
23	32	20	26	4	14	23	39	0				0.0	0.00	29.28	30.11	12.0	28	12.4	32	28	25	28	23	
24	27	18	23	1	15	21	42	0	SN			T	T	29.15	29.98	9.1	01	9.4	22	02	18	01	24	
25	28	23	26	5	18	23	39	0	SN			0.0	T	29.21	30.03	11.3	32	12.7	23	34	18	34	25	
26	35	13	24	3	17	22	41	0	BR			0.0	0.00	29.45	30.29	7.6	22	8.5	17	27	14	18	26	
27	38	18	28	7	22	26	37	0	BR HZ			0.0	0.00	29.37	30.20	8.7	20	9.2	22	20	20	21	27	
28	38	23	31	10	26	29	34	0	BR HZ			0.0	0.00	29.17	29.98	5.4	22	7.1	20	24	16	18	28	
29	42	22	32	12	27	31	33	0	BR HZ			0.0	0.00	29.14	29.96	9.1	13	10.0	26	16	22	15	29	
30	58*	32	45	25	40	43	20	0	RA BR HZ			0.0	T	28.89	29.69	8.6	23	13.6	26	30	22	31	30	
31	38	24	31	11	17	26	34	0				0.0	0.00	29.22	30.04	7.0	32	8.1	18	28	14	30	31	
37.0 20.5 28.8 ■■										< MONTHLY AVERAGES TOTALS->				1.8	0.78	29.22	30.04	3.0	25	9.8	<- MONTHLY AVERAGES			
5.0 3.6 4.4 ■■										<-----DEPARTURE FROM NORMAL----->				-1.28	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.63 DATE :18					SEA LEVEL PRESSURE DATE TIME										
MONTHLY									GREATEST 24-HR SNOWFALL: 1.8 DATE :02					MAXIMUM										
TOTAL DEPARTURE									GREATEST SNOW DEPTH: DATE :					MINIMUM										
HEATING: 1118 -126 2589 -86									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 0			MINIMUM TEMP ≤ 32 : 28			PRECIPITATION ≥ 0.01 INCH : 2							
COOLING: 0 0 990 222											MAXIMUM TEMP ≤ 32 : 10			MINIMUM TEMP ≤ 0 : 0			PRECIPITATION ≥ 0.10 INCH : 2							
											THUNDERSTORMS : 1			HEAVY FOG : 1			SNOWFALL ≥ 1.0 INCH : 1							

DECEMBER 2002
ROCKFORD, IL

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

ROCKFORD, IL

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RFD

WBAN # 94822

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01									T	0.02	0.02	0.01	01	T											01	0.05		0.00	
02													02												02			0.15	
03													03												03			0.00	
04													04												04			0.00	
05									T	T	T	T	05												05			T	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10													10												10			0.00	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14													14												14			0.00	
15													15												15			0.00	
16													16												16			T	
17	T	T	T										17							T	T				17			T	
18			0.02	0.04	0.03		T			0.13	0.02	0.06	18	T	T	0.19	0.06	0.07	0.01		T				18			0.63	
19													19										T			19		T	
20		T	T	T					T	T	T	T	20	T	T	T	T	T	T	T	T				20		T		
21	T	T	T	T	T		T	T					21												21			T	
22												T	22	T											22			T	
23													23												23			0.00	
24													24										T		24			T	
25	T	T											25												25			T	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30	T											30			T	
31													31												31			0.00	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.14	.16	.18	.19	.19	.20	.20	.25	.25	.25	.31	.33
Ending Date	18	18	18	18	18	18	18	18	18	18	18	18
Ending Time (Hour/Min)	1426	1432	1436	1440	1440	1502	1502	1539	1539	1539	1644	1701

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = Extreme for the month (last occurrence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

**ROCKFORD, IL
DECEMBER 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							.50	10.00	
03							9.00	10.00	
04							4.00	10.00	
05							3.00	10.00	
06							6.00	10.00	
07							5.00	10.00	
08							10.00	10.00	
09							7.00	10.00	
10							8.00	10.00	
11							6.00	10.00	
12							5.00	7.00	
13							2.50	6.00	
14							2.50	9.00	
15							10.00	10.00	
16							10.00	10.00	
17							1.25	10.00	
18							.75	10.00	
19							3.00	10.00	
20							1.00	10.00	
21							7.00	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							6.00	10.00	
25							8.00	10.00	
26							6.00	10.00	
27							5.00	10.00	
28							2.50	6.00	
29							2.50	8.00	
30							2.50	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.81	9.55	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> Percent Possible:</p>									
<p align="center">NUMBER OF DAYS WITH:</p> <p align="center">SKY CONDITION</p> <p align="center">CLR PTLY CLDY CLOUDY MISSING</p> <p align="center">31</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">0 10 12</p>									

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Hour (LST)				SATELLITE		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)		Hour (LST)				SATELLITE		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)	
	Sky Cover	Ceiling 100'S OFF	Observation Time (LST)	Eff CLD AMT <small>Oktas</small>	Visibility (Miles)		Dry Bulb	Dew Point	Wet Bulb		Speed (MPH)	Direction Tens of DEG	Station	Sea Level		Sky Cover	Ceiling 100'S OFF	Observation Time (LST)	Eff CLD AMT <small>Oktas</small>	Visibility (Miles)		Dry Bulb	Dew Point	Wet Bulb		Speed (MPH)	Direction Tens of DEG	Station	Sea Level
Sunrise: 0705						DEC 01	Sunset: 1626						Sunrise: 0711						DEC 07	Sunset: 1624									
03	CLR	NC			10.00		12	1	10	61	7	23	29.32	30.16	03	CLR	NC			7.00		30	24	28	79	10	23	29.14	29.97
06	OVC	100			10.00		15	4	12	61	8	20	29.27	30.11	06	CLR	NC			6.00	HZ	29	23	27	78	13	23	29.17	30.00
09	OVC	090			10.00		20	2	16	45	15	23	29.25	30.09	09	CLR	NC			8.00		31	25	29	79	14	25	29.23	30.06
12	OVC	100			10.00		29	8	23	41	18	21	29.07	29.89	12	CLR	NC			10.00		37	24	32	60	13	27	29.22	30.04
15	BKN	100			10.00		40	15	31	36	22	24	28.97	29.79	15	CLR	NC			10.00		39	26	34	60	10	30	29.23	30.05
18	CLR	NC			10.00		35	16	29	46	10	21	28.96	29.78	18	CLR	NC			10.00		30	25	28	82	5	21	29.26	30.09
21	SCT	NC			10.00		35	17	29	48	10	23	28.98	29.80	21	CLR	NC			10.00		27	22	25	81	5	29	29.30	30.12
24	OVC	070			10.00		35	20	30	54	5	22	28.99	29.80	24	CLR	NC			10.00		27	21	25	78	8	29	29.35	30.17
Sunrise: 0706						DEC 02	Sunset: 1625						Sunrise: 0712						DEC 08	Sunset: 1624									
03	OVC	060			10.00		34	22	30	61	6	05	28.98	29.79	03	CLR	NC			10.00		25	19	23	78	10	29	29.43	30.25
06	OVC	060			10.00		32	19	28	59	13	04	29.00	29.81	06	CLR	NC			10.00		22	15	20	75	8	31	29.51	30.35
09	OVC	012		-SN BR	1.00		28	24	27	85	14	03	29.09	29.90	09	FEW	NC			10.00		22	8	18	55	12	34	29.62	30.46
12	OVC	010		-SN	1.25		26	21	24	81	18	01	29.16	29.98	12	FEW	NC			10.00		25	4	20	40	12	36	29.67	30.52
15	BKN	034			10.00		24	13	21	62	22	02	29.26	30.08	15	CLR	NC			10.00		25	3	19	39	13	35	29.70	30.55
18	CLR	NC			10.00		21	8	18	57	16	01	29.39	30.22	18	CLR	NC			10.00		18	4	15	54	3	36	29.76	30.61
21	OVC	038			9.00		19	11	17	71	14	02	29.49	30.32	21	CLR	NC			10.00		11	6	10	81	0	00	29.78	30.63
24	BKN	050			10.00		18	11	16	74	12	01	29.57	30.41	24	CLR	NC			10.00		8	2	7	76	0	00	29.75	30.60
Sunrise: 0707						DEC 03	Sunset: 1625						Sunrise: 0713						DEC 09	Sunset: 1624									
03	OVC	055			10.00		15	11	14	84	8	01	29.65	30.50	03	CLR	NC			10.00		6	2	5	83	0	00	29.72	30.57
06	SCT	NC			10.00		11	5	10	77	8	02	29.72	30.57	06	CLR	NC			10.00		4	-1	3	80	5	18	29.69	30.55
09	CLR	NC			10.00		15	5	13	64	3	03	29.80	30.65	09	SCT	NC			9.00		12	6	11	77	6	19	29.70	30.55
12	FEW	NC			10.00		20	7	17	57	5	21	29.79	30.64	12	FEW	NC			10.00		27	9	22	47	10	22	29.58	30.42
15	FEW	NC			10.00		23	6	19	48	5	20	29.75	30.60	15	SCT	NC			10.00		31	9	24	40	10	22	29.51	30.35
18	SCT	NC			10.00		17	7	15	64	0	00	29.78	30.63	18	SCT	NC			10.00		26	11	22	53	8	21	29.47	30.31
21	CLR	NC			10.00		12	8	11	84	0	00	29.78	30.64	21	CLR	NC			10.00		23	11	20	60	8	20	29.45	30.29
24	CLR	NC			10.00		8	4	7	83	0	00	29.78	30.63	24	CLR	NC			10.00		25	11	21	55	5	17	29.41	30.24
Sunrise: 0708						DEC 04	Sunset: 1625						Sunrise: 0714						DEC 10	Sunset: 1624									
03	CLR	NC			7.00		8	4	7	83	0	00	29.75	30.60	03	CLR	NC			10.00		22	11	19	63	6	18	29.41	30.24
06	BKN	250			8.00		10	6	9	84	0	00	29.72	30.58	06	CLR	NC			10.00		21	12	18	68	7	19	29.40	30.23
09	BKN	250			7.00		14	9	13	80	0	00	29.72	30.57	09	FEW	NC			10.00		26	14	22	60	6	21	29.41	30.24
12	BKN	100			10.00		25	11	21	55	5	34	29.66	30.51	12	CLR	NC			10.00		41	21	34	45	6	21	29.36	30.18
15	OVC	075			10.00		25	13	21	60	6	02	29.61	30.46	15	CLR	NC			10.00		45	22	36	40	8	21	29.30	30.13
18	OVC	075			10.00		23	11	20	60	7	02	29.58	30.44	18	CLR	NC			10.00		33	21	29	61	5	18	29.30	30.13
21	BKN	100			10.00		22	11	19	63	6	03	29.56	30.40	21	CLR	NC			10.00		29	20	26	69	3	18	29.29	30.11
24	SCT	NC			10.00		17	9	15	70	5	35	29.52	30.36	24	CLR	NC			8.00		24	18	22	77	5	15	29.28	30.10
Sunrise: 0709						DEC 05	Sunset: 1625						Sunrise: 0715						DEC 11	Sunset: 1625									
03	FEW	NC			8.00		12	8	11	84	5	34	29.50	30.34	03	CLR	NC			8.00		21	17	20	85	0	00	29.27	30.09
06	FEW	NC			6.00	BR	7	5	7	91	0	00	29.48	30.33	06	CLR	NC			8.00		18	15	17	88	3	15	29.26	30.09
09	OVC	027		-SN BR	3.00		12	9	11	87	0	00	29.48	30.32	09	FEW	NC			9.00		26	20	24	78	3	16	29.26	30.09
12	BKN	020			7.00		20	13	18	74	13	29	29.43	30.27	12	CLR	NC			10.00		42	19	34	40	8	21	29.24	30.06
15	FEW	NC			10.00		22	10	19	60	13	26	29.37	30.21	15	CLR	NC			10.00		45	16	35	31	9	20	29.21	30.03
18	CLR	NC			10.00		16	7	14	67	0	00	29.39	30.23	18	CLR	NC			10.00		32	17	27	54	9	17	29.23	30.06
21	CLR	NC			10.00		14	8	13	77	5	25	29.40	30.24	21	CLR	NC			10.00		25	16	22	69	7	18	29.25	30.09
24	CLR	NC			10.00		11	5	10	77	5	23	29.39	30.23	24	OVC	022			8.00		30	22	27	72	5	15	29.26	30.08
Sunrise: 0710						DEC 06	Sunset: 1625						Sunrise: 0716						DEC 12	Sunset: 1625									
03	CLR	NC			9.00		7	2	6	80	3	20	29.40	30.24	03	OVC	030			6.00	HZ	33	28	31	82	8	17	29.25	30.07
06	CLR	NC			8.00		5	1	4	83	3	18	29.40	30.25	06	OVC	030			6.00	HZ	34	27	31	76	8	17	29.27	30.09
09	CLR	NC			7.00		10	5	9	80	6	21	29.41	30.26	09	OVC	034			6.00	HZ	36	28	33	73	13	18	29.29	30.11
12	CLR	NC			9.00		24	14	21	65	14	24	29.34	30.18	12	OVC	038			6.00	HZ	38	30	35	73	13	19	29.28	30.10
15	FEW	NC			10.00		29	17	25	61	12	21	29.26	30.10	15	OVC	018			6.00	HZ	40	31	36	70	8	19	29.23	30.05
18	CLR	NC			10.00		27	14	23	58	12	20	29.21	30.04	18	OVC	033			7.00		38	31	35	76	8	19	29.27	30.09
21	CLR	NC			10.00		30	17	26	59	14	21	29.17	30.01	21	OVC	033			6.00	HZ	37	31	35	79	5	16	29.26	30.08
24	CLR	NC			10.00		31	22	28	69	15	22	29.14	29.96	24	OVC	031			6.00	HZ	37	32	35	82	6	19	29.27	30.09

OBSERVATIONS AT 3-HOURLY INTERVALS

ROCKFORD, IL

DECEMBER 2002

RFD

WBAN # 94822

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)									
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0716						DEC 13						SUNSET: 1625						SUNRISE: 0720						DEC 19						SUNSET: 1627					
03	OVC	034			6.00 HZ	36	31	34	82	3	16	29.24	30.06	03	SCT	NC			4.00 BR	39	36	38	89	8	22	28.89	29.69								
06	OVC	036			5.00 BR	34	31	33	89	0	00	29.17	29.98	06	OVC	020			4.00 BR	37	35	36	93	7	21	28.92	29.71								
09	OVC	020			3.00 BR	35	31	33	85	0	00	29.18	29.99	09	FEW	NC			9.00	38	33	36	83	9	24	28.90	29.70								
12	OVC	037			4.00 HZ	41	33	38	74	8	03	29.11	29.91	12	BKN	250			10.00	40	32	37	73	15	24	28.87	29.67								
15	SCT	NC			4.00 HZ	41	33	38	74	8	01	29.07	29.87	15	OVC	033			10.00	40	29	35	65	8	28	28.79	29.59								
18	OVC	004			2.50 BR	34	32	33	92	14	35	29.11	29.92	18	OVC	043			10.00	38	30	35	73	7	26	28.79	29.59								
21	OVC	006			3.00 BR	34	31	33	89	9	35	29.12	29.93	21	OVC	041			10.00	35	28	32	76	10	26	28.75	29.56								
24	OVC	026			3.00 BR	33	30	32	89	7	34	29.12	29.93	24	OVC	060			10.00	33	25	30	72	15	26	28.72	29.52								
SUNRISE: 0717						DEC 14						SUNSET: 1625						SUNRISE: 0721						DEC 20						SUNSET: 1627					
03	OVC	011			5.00 HZ	33	27	31	78	12	33	29.14	29.96	03	OVC	026			8.00 -SN	33	26	30	75	16	26	28.69	29.50								
06	OVC	009			4.00 BR	31	28	30	89	8	32	29.15	29.97	06	OVC	034			10.00	32	22	28	66	20	27	28.69	29.49								
09	OVC	007			3.00 BR	31	27	29	85	10	31	29.20	30.02	09	OVC	031			10.00	33	22	29	64	17	25	28.69	29.50								
12	SCT	NC			5.00 HZ	36	27	33	70	6	26	29.18	30.00	12	OVC	038			7.00 -SN	32	26	30	79	14	28	28.69	29.49								
15	SCT	NC			7.00	41	28	36	60	13	22	29.10	29.91	15	OVC	022			7.00 -SN	32	23	29	69	22	25	28.71	29.52								
18	FEW	NC			6.00 HZ	33	27	31	78	8	20	29.10	29.91	18	OVC	048			7.00 -SN	31	24	28	76	13	26	28.77	29.58								
21	SCT	NC			6.00 HZ	34	28	32	79	9	21	29.07	29.88	21	OVC	065			10.00	30	22	27	72	18	28	28.79	29.60								
24	SCT	NC			9.00	33	27	31	78	6	18	29.04	29.85	24	OVC	035			6.00 -SN	28	21	26	75	13	27	28.83	29.65								
SUNRISE: 0718						DEC 15						SUNSET: 1625						SUNRISE: 0722						DEC 21						SUNSET: 1628					
03	OVC	150			10.00	36	27	32	70	9	22	29.01	29.81	03	OVC	043			9.00 -SN	30	24	28	79	16	27	28.86	29.67								
06	OVC	150			10.00	34	28	32	79	3	22	29.01	29.82	06	OVC	032			10.00	30	20	27	66	22	27	28.89	29.71								
09	SCT	NC			10.00	37	29	34	73	6	31	29.04	29.85	09	OVC	038			10.00	30	18	26	61	20	27	28.97	29.79								
12	BKN	250			10.00	45	30	39	56	7	01	29.05	29.85	12	BKN	250			10.00	32	18	27	56	18	28	28.99	29.80								
15	BKN	130			10.00	43	30	38	60	13	02	29.06	29.86	15	BKN	250			10.00	33	21	29	61	17	26	28.99	29.80								
18	BKN	130			10.00	40	28	35	63	15	03	29.12	29.94	18	BKN	250			10.00	28	21	26	75	5	24	28.98	29.79								
21	OVC	032			10.00	37	28	34	70	8	05	29.18	30.00	21	BKN	250			10.00	27	21	25	78	6	25	29.00	29.81								
24	OVC	022			10.00	31	22	28	69	14	06	29.26	30.08	24	SCT	NC			10.00	26	20	24	78	9	31	28.94	29.75								
SUNRISE: 0719						DEC 16						SUNSET: 1626						SUNRISE: 0722						DEC 22						SUNSET: 1628					
03	CLR	NC			10.00	25	17	23	72	13	04	29.26	30.08	03	OVC	023			10.00	25	18	23	75	9	29	28.96	29.78								
06	CLR	NC			10.00	25	18	23	75	10	06	29.26	30.08	06	OVC	025			10.00	28	19	25	69	17	29	28.99	29.80								
09	BKN	250			10.00	29	20	26	69	17	08	29.29	30.11	09	OVC	034			10.00	28	17	25	63	18	27	29.07	29.88								
12	OVC	150			10.00	33	18	28	54	17	10	29.27	30.09	12	OVC	024			10.00	28	18	25	66	22	28	29.10	29.91								
15	BKN	150			10.00	33	20	29	59	13	08	29.22	30.05	15	OVC	030			10.00	29	16	25	58	22	27	29.12	29.95								
18	BKN	110			10.00	29	21	26	72	8	08	29.28	30.11	18	CLR	NC			10.00	27	17	24	66	16	26	29.19	30.02								
21	SCT	NC			10.00	29	21	26	72	15	10	29.26	30.08	21	OVC	033			10.00	28	18	25	66	14	26	29.19	30.02								
24	OVC	040			10.00 -RA	31	21	28	67	14	11	29.26	30.08	24	OVC	031			10.00	28	17	25	63	13	27	29.20	30.03								
SUNRISE: 0719						DEC 17						SUNSET: 1626						SUNRISE: 0723						DEC 23						SUNSET: 1629					
03	OVC	023			10.00	30	22	27	72	15	10	29.26	30.09	03	OVC	026			10.00	26	18	23	71	13	27	29.22	30.05								
06	OVC	017			10.00	30	22	27	72	13	10	29.25	30.07	06	OVC	024			10.00	26	17	23	69	16	28	29.25	30.08								
09	OVC	015			8.00	31	23	28	72	13	11	29.24	30.06	09	CLR	NC			10.00	26	15	23	63	22	29	29.29	30.12								
12	OVC	015			6.00 HZ	33	26	30	75	15	11	29.17	29.99	12	FEW	NC			10.00	32	10	25	40	14	28	29.29	30.11								
15	OVC	015			6.00 HZ	34	27	31	76	16	11	29.10	29.91	15	SCT	NC			10.00	30	13	25	49	13	27	29.28	30.11								
18	OVC	013			6.00 HZ	34	28	32	79	10	11	29.07	29.88	18	BKN	250			10.00	28	14	24	56	8	27	29.31	30.14								
21	OVC	005			2.50 BR	34	31	33	89	20	11	29.02	29.83	21	FEW	NC			10.00	22	13	19	68	6	29	29.32	30.15								
24	OVC	003			2.00 BR	37	31	35	79	15	11	28.94	29.75	24	FEW	NC			10.00	20	12	18	71	3	36	29.31	30.14								
SUNRISE: 0720						DEC 18						SUNSET: 1626						SUNRISE: 0723						DEC 24						SUNSET: 1629					
03	OVC	007			5.00 -RA BR	43	42	43	97	16	13	28.89	29.70	03	BKN	250			10.00	19	8	16	62	7	02	29.28	30.11								
06	OVC	009			6.00 BR	51	49	50	92	22	19	28.88	29.68	06	OVC	180			10.00	20	13	18	74	5	36	29.27	30.09								
09	OVC	016			9.00	52	48	50	86	24	17	28.86	29.66	09	OVC	150			10.00	21	14	19	74	9	01	29.24	30.07								
12	OVC	013			5.00 -RA BR	51	48	50	89	21	15	28.77	29.57	12	OVC	150			10.00	25	14	22	63	12	01	29.15	29.98								
15	OVC	037			6.00 -TSRA BR	50	46	48	86	10	18	28.78	29.57	15	OVC	150			10.00	26	14	22	60	10	36	29.10	29.92								
18	BKN	027			10.00	52	49	50	89	17	16	28.77	29.57	18	OVC	022			10.00	27	17	24	66	14	01	29.05	29.87								
21	OVC	007			6.00 BR	52	50	51	93	12	18	28.78	29.57	21	OVC	018			10.00	27	18	24	69	14	01	29.02	29.84								
24	OVC	007			5.00 BR	47	44	46	90	10	27	28.82	29.61	24	OVC	027			6.00 -SN	25	20	23	81	13	36	29.00	29.82								

OBSERVATIONS AT 3-HOURLY INTERVALS

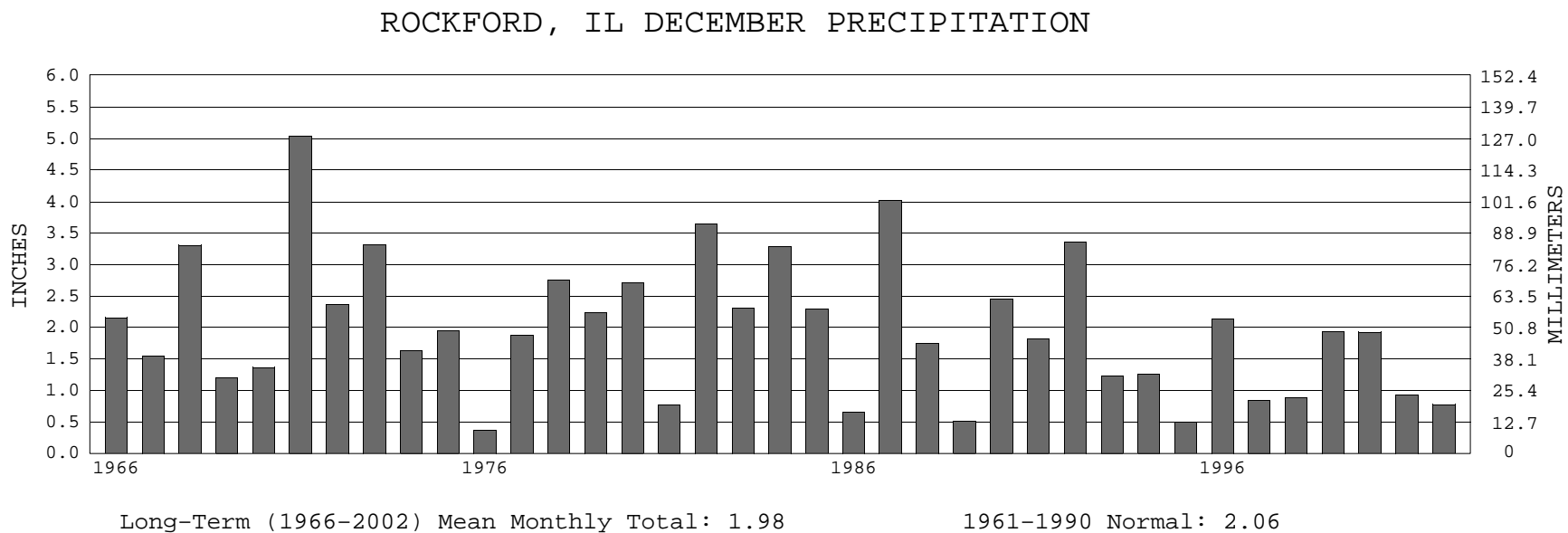
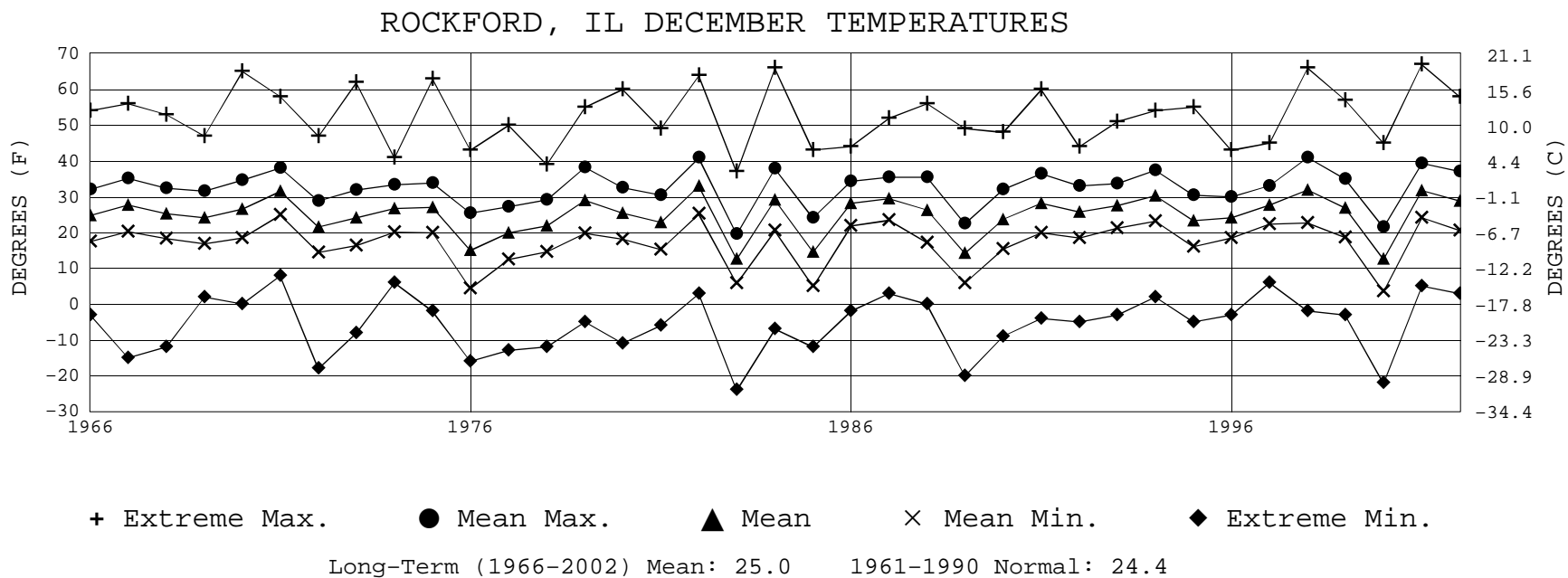
ROCKFORD, IL

DECEMBER 2002

RFD

WBAN # 94822

HOUR (LST)	SKY COVER		CEILING 100'S OFFT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OFFT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		
				DRY BULB	DEW POINT					WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	DRY BULB	DEW POINT					WET BULB	SPEED (MPH)					DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0723 DEC 25 SUNSET: 1630																		SUNRISE: 0725 DEC 31 SUNSET: 1634																		
03	OVC	013						10.00		25	19	23	78	14	35	29.05	29.86	03	BKN	250							10.00		30	18	26	61	10	29	29.18	29.99
06	OVC	013						10.00		24	19	22	81	16	34	29.09	29.91	06	BKN	250							10.00		28	18	25	66	8	30	29.19	30.01
09	OVC	018						10.00		25	18	23	75	13	34	29.16	29.99	09	SCT	NC							10.00		27	18	24	69	7	31	29.23	30.06
12	OVC	021						10.00		28	17	25	63	14	30	29.19	30.02	12	FEW	NC							10.00		35	16	29	46	8	34	29.21	30.03
15	OVC	021						10.00		26	17	23	69	12	28	29.24	30.07	15	FEW	NC							10.00		38	15	30	39	7	30	29.21	30.03
18	OVC	017						10.00		24	17	22	75	13	30	29.30	30.13	18	FEW	NC							10.00		30	16	26	56	8	33	29.26	30.09
21	OVC	013						9.00		23	18	21	81	14	29	29.37	30.20	21	FEW	NC							10.00		26	16	23	66	8	01	29.22	30.05
24	OVC	011						9.00		24	19	22	81	10	29	29.38	30.21	24	SCT	NC							10.00		24	14	21	65	10	04	29.25	30.07
SUNRISE: 0724 DEC 26 SUNSET: 1630																		3-HOURLY OBSERVATION NOTES																		
03	FEW	NC						8.00		21	17	20	85	8	27	29.43	30.26	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.																		
06	CLR	NC						7.00		17	14	16	88	5	22	29.44	30.27	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																		
09	CLR	NC						6.00	BR	20	16	19	85	9	22	29.50	30.33	NC= No ceiling detected.																		
12	CLR	NC						10.00		31	18	27	59	12	24	29.47	30.30	& = Original observation contained additional weather elements.																		
15	CLR	NC						10.00		35	19	30	52	10	23	29.45	30.28	See page 3 for additional notes.																		
18	FEW	NC						10.00		24	19	22	81	9	19	29.46	30.29																			
21	SCT	NC						10.00		23	17	21	78	6	19	29.46	30.30																			
24	BKN	250						10.00		23	15	21	72	8	19	29.44	30.27																			
SUNRISE: 0724 DEC 27 SUNSET: 1631																		SUMMARY BY HOUR																		
03	BKN	200						8.00		22	17	20	82	7	19	29.45	30.27	HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)							
06	CLR	NC						7.00		19	15	18	85	7	16	29.42	30.26		CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION						
09	SCT	NC						6.00	BR	22	18	21	85	8	19	29.43	30.26	01			26	19	24	76	29.21	30.04	8.19	9	3	25						
12	BKN	031						7.00		36	28	33	73	12	23	29.37	30.19	02			26	20	24	78	29.23	30.05	8.10	8	2	25						
15	BKN	038						10.00		36	25	32	64	12	21	29.34	30.16	04			25	19	23	79	29.22	30.04	7.97	8	2	24						
18	OVC	025						8.00		32	25	29	75	12	19	29.32	30.15	05			25	19	23	80	29.22	30.05	7.97	8	2	26						
21	OVC	018						7.00		33	27	31	78	10	23	29.31	30.14	06			25	19	23	79	29.23	30.05	7.95	9	3	25						
24	OVC	012						5.00	BR	32	28	31	85	9	23	29.28	30.10	07			25	19	23	79	29.23	30.06	8.06	9	2	23						
SUNRISE: 0724 DEC 28 SUNSET: 1632																		08			25	19	23	78	29.24	30.07	7.61	9	3	23						
03	OVC	007						4.00	BR	31	28	30	89	8	22	29.23	30.05	09			27	20	25	75	29.25	30.08	7.47	11	4	24						
06	OVC	005						2.50	BR	30	28	29	92	6	17	29.21	30.03	10			30	21	27	70	29.26	30.08	7.60	11	4	24						
09	OVC	005						2.50	BR	29	27	28	92	15	18	29.11	29.93	11			32	21	29	65	29.24	30.06	7.89	12	4	25						
12	OVC	095						5.00	HZ	34	27	31	76	8	21	29.07	29.88	12			34	22	30	63	29.22	30.04	8.04	13	5	25						
15	BKN	250						5.00	HZ	36	27	33	70	10	30	29.09	29.90	13			35	21	30	60	29.20	30.02	8.52	12	5	25						
18	BKN	250						5.00	HZ	31	25	29	79	0	00	29.15	29.97	14			35	21	31	59	29.19	30.01	9.00	12	6	25						
21	SCT	NC						4.00	BR	27	24	26	89	3	20	29.22	30.05	15			35	21	30	58	29.19	30.01	8.87	12	5	26						
24	FEW	NC						3.00	BR	24	21	23	88	0	00	29.22	30.05	16			34	21	30	61	29.20	30.02	9.00	11	3	26						
SUNRISE: 0724 DEC 29 SUNSET: 1633																		17			32	21	28	66	29.21	30.03	8.94	10	2	23						
03	BKN	250						4.00	BR	26	23	25	88	0	00	29.25	30.07	18			30	21	27	69	29.21	30.04	8.98	9	2	24						
06	CLR	NC						4.00	BR	25	22	24	88	3	07	29.25	30.08	19			29	21	26	71	29.22	30.04	8.94	9	2	23						
09	OVC	150						2.50	BR	29	25	28	85	8	12	29.27	30.10	20			29	21	26	72	29.22	30.05	8.71	9	2	25						
12	BKN	250						4.00	HZ	38	29	34	70	17	14	29.19	30.02	21			28	21	26	75	29.22	30.04	8.56	9	2	24						
15	BKN	250						5.00	HZ	42	29	37	60	15	12	29.12	29.94	22			28	21	26	75	29.22	30.04	8.53	9	2	24						
18	BKN	250						7.00		36	28	33	73	15	13	29.06	29.87	23			28	21	25	76	29.22	30.04	8.56	8	2	24						
21	BKN	250						7.00		36	30	34	79	14	16	28.99	29.80	24			27	20	25	75	29.22	30.04	8.29	8	2	26						
24	BKN	250						7.00		38	31	35	76	12	17	28.92	29.73																			
SUNRISE: 0725 DEC 30 SUNSET: 1633																		03	OVC	060							5.00	BR	41	39	40	93	15	17	28.87	29.67
06	OVC	008						5.00	BR	46	43	45	89	14	19	28.81	29.61	06	OVC	008							5.00	BR	50	48	49	93	10	20	28.81	29.61
09	OVC	004						2.50	BR	50	48	49	93	10	20	28.81	29.61	09	OVC	004							3.00	HZ	57	52	54	83	16	21	28.77	29.56
12	OVC	016						3.00	HZ	57	52	54	83	16	21	28.77	29.56	12	OVC	016							9.00		56	48	52	75	14	26	28.80	29.59
15	OVC	150						9.00		56	48	52	75	14	26	28.80	29.59	15	OVC	150							10.00		44	36	40	73	16	30	28.94	29.74
18	BKN	250						10.00		44	36	40	73	16	30	28.94	29.74	18	BKN	250							6.00	HZ	34	29	32	82	13	31	29.04	29.85
21	SCT	NC						6.00		34	29	32	82	13	31	29.04	29.85	21	SCT	NC							10.00		33	23	29	67	12	30	29.12	29.92
24	BKN	250						10.00		33	23	29	67	12	30	29.12	29.92	24	BKN	250																





DECEMBER 2002

ROCKFORD, IL

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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