



JANUARY 2003

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			
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	32	21	27	7	18	24	38	0				0.0	0.00	29.27	30.09	13.8	03	14.4	26	02	23	04	01	
02	30	25	28	8	21	25	37	0	SN			T	T	29.25	30.08	12.9	02	13.5	24	03	22	02	02	
03	34	17	26	7	15	21	39	0				0.0	0.00	29.27	30.10	5.2	33	6.5	18	34	15	34	03	
04	33	16	25	6	22	25	40	0	SN BR			1.6	0.11	29.16	29.98	5.8	16	6.3	18	17	16	17	04	
05	33	28	31	12	28	30	34	0	SN BR HZ			0.0	0.01	29.18	30.00	5.3	32	5.8	20	01	16	35	05	
06	32	17	25	6	20	25	40	0	BR			0.0	0.00	29.56	30.39	7.4	32	10.2	29	33	22	35	06	
07	45	25	35	16	26	31	30	0				0.0	0.00	29.13	29.95	12.6	25	13.0	30	26	22	27	07	
08	53*	29	41*	22	28	37	24	0				0.0	0.00	28.76	29.56	9.7	26	10.9	30	27	26	26	08	
09	43	25	34	15	22	30	31	0	SN			T	T	28.87	29.67	15.9	30	16.6	38*	30	31*	29	09	
10	26	11	19	0	7	16	46	0	SN BR			T	T	29.19	30.02	16.4	29	16.5	33	29	29	30	10	
11	19	5	12	-7	-1	10	53	0				0.0	0.00	29.45	30.29	12.7	30	13.0	29	29	25	31	11	
12	33	5	19	1	6	17	46	0				0.0	0.00	29.43	30.27	10.3	21	10.7	28	24	22	24	12	
13	30	15	23	5	3	16	42	0	SN BR			0.4	0.01	29.42	30.25	10.9	32	11.4	23	33	20	31	13	
14	16	5	11	-7	3	9	54	0	SN BR			0.1	0.01	29.49	30.34	10.6	30	11.2	26	28	22	28	14	
15	17	2	10	-8	0	8	55	0				0.0	0.00	29.56	30.41	7.7	30	8.1	21	33	17	32	15	
16	25	12	19	1	5	14	46	0				0.0	0.00	29.41	30.25	9.2	31	9.5	23	29	20	29	16	
17	18	6	12	-6	0	9	53	0				0.0	0.00	29.47	30.31	5.4	33	9.2	30	01	24	01	17	
18	24	3	14	-4	4	11	51	0	SN BR			T	T	29.13	29.97	9.4	27	11.6	25	31	22	30	18	
19	29	2	16	-3	7	14	49	0	SN			T	T	29.06	29.90	9.5	25	11.5	26	31	24	26	19	
20	21	12	17	-2	-2	12	48	0				0.0	0.00	29.27	30.10	7.9	33	8.6	17	33	14	34	20	
21	17	4	11	-8	-7	7	54	0				0.0	0.00	29.47	30.32	8.4	33	9.2	20	33	15	34	21	
22	13	1	7	-12	-7	4	58	0				0.0	0.00	29.59	30.45	10.8	33	11.0	22	31	18	34	22	
23	10	-6	2*	-17	-13	0	63	0				0.0	0.00	29.73	30.60	11.1	32	11.7	26	34	18	31	23	
24	17	-1	8	-11	-5	7	57	0	SN			T	T	29.63	30.49	9.0	23	9.5	22	22	18	21	24	
25	31	11	21	2	9	18	44	0	SN BR HZ			0.5	T	29.36	30.20	7.7	27	11.5	25	34	21	34	25	
26	14	-4	5	-14	-5	6	60	0	SN			T	T	29.61	30.46	11.2	32	12.3	28	34	22	34	26	
27	20	-7*	7	-13	0	7	58	0				0.0	0.00	29.48	30.34	11.4	18	11.5	30	18	25	17	27	
28	29	19	24	4	20	24	41	0	RA FZRA SN PL BR			1.5	0.14	29.24	30.07	1.0	04	6.4	23	02	18	02	28	
29	26	9	18	-2	12	17	47	0				0.0	0.00	29.52	30.36	5.7	35	6.9	23	02	20	01	29	
30	33	12	23	3	19	22	42	0	BR HZ			0.0	0.00	29.36	30.20	12.0	18	12.2	25	17	22	18	30	
31	36	32	34	14	29	32	31	0	RA SN PL BR HZ			T	0.06	29.08	29.90	3.4	23	10.2	24	18	20	19	31	

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ROCKFORD, IL

27.1			11.3			19.2			9.2		17.0		45.5		0.0		< MONTHLY AVERAGES		TOTALS->		4.1		0.34		29.33		30.17		5.8		30		10.7		<- MONTHLY AVERAGES														
-.1			0.5			0.2			<-----DEPARTURE FROM NORMAL----->										-1.07		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																												
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.14 DATE :28										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 1.6 DATE :04										MAXIMUM : 30.63 23 2254																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:										MINIMUM : 29.39 08 1354																													
HEATING: 1411 -19										NUMBER OF DAYS WITH >										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32 : 31										PRECIPITATION ≥ 0.01 INCH : 6									
COOLING: 0 0																				MAXIMUM TEMP ≤ 32 : 22										MINIMUM TEMP ≤ 0 : 4										PRECIPITATION ≥ 0.10 INCH : 2									
																				THUNDERSTORMS : 0										HEAVY FOG : 0										SNOWFALL ≥ 1.0 INCH : 2									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

ROCKFORD, IL

JANUARY 2003

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													01												01			0.00	
02													02	T											02			T	
03													03		T										03			T	
04													04				T	0.01	0.01	0.01	0.01	T	0.02	0.01	0.01	0.01	0.01	0.09	0.11
05	T	T								T	T	0.01	T		T					T	T	T	T	T	05			0.01	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09							T	T	T	T		09			T	
10													10												10			T	
11													11												11			0.00	
12													12												12			0.00	
13													13								T	T	T	T	13	T		0.01	
14	0.01	T	T	T	T								14												14			0.01	
15													15												15			0.00	
16													16												16			0.00	
17													17												17			0.00	
18													18				T	T	T						18			T	
19													19							T	T				19			T	
20													20												20			0.00	
21													21												21			0.00	
22													22												22			0.00	
23													23												23			0.00	
24													24				T	T	T						24			T	
25													25							T	T	T	T		25			T	
26			T	T	T								26												26			T	
27													27												27			0.00	
28													28	0.04	0.03	0.02	0.02	0.02	T					T	28			0.14	
29													29												29			0.00	
30													30												30			0.00	
31					T	T	0.01	0.01	0.01	0.02	T	T	31	0.01											31			0.06	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.01	.01	.02	.02	.03	.04	.05	.06	.07	.08	.09	.10
Ending Date	31	31	31	31	28	28	28	28	28	28	28	28
Ending Time (Hour/Min)	1227	1227	0855	0855	1322	1322	1322	1322	1344	1344	1427	1501

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

ROCKFORD, IL JANUARY 2003

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

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.

ADDITIONAL NOTES:

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							3.00	10.00	
03							10.00	10.00	
04							.75	10.00	
05							.75	5.00	
06							5.00	10.00	
07							8.00	10.00	
08							10.00	10.00	
09							8.00	10.00	
10							1.25	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							2.00	10.00	
14							1.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							1.75	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							9.00	10.00	
25							1.75	10.00	
26							4.00	10.00	
27							10.00	10.00	
28							.75	10.00	
29							7.00	10.00	
30							3.00	10.00	
31							1.25	9.00	
MONTHLY AVGS							6.45	9.81	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 0 11 18									

OBSERVATIONS AT 3-HOURLY INTERVALS

ROCKFORD, IL

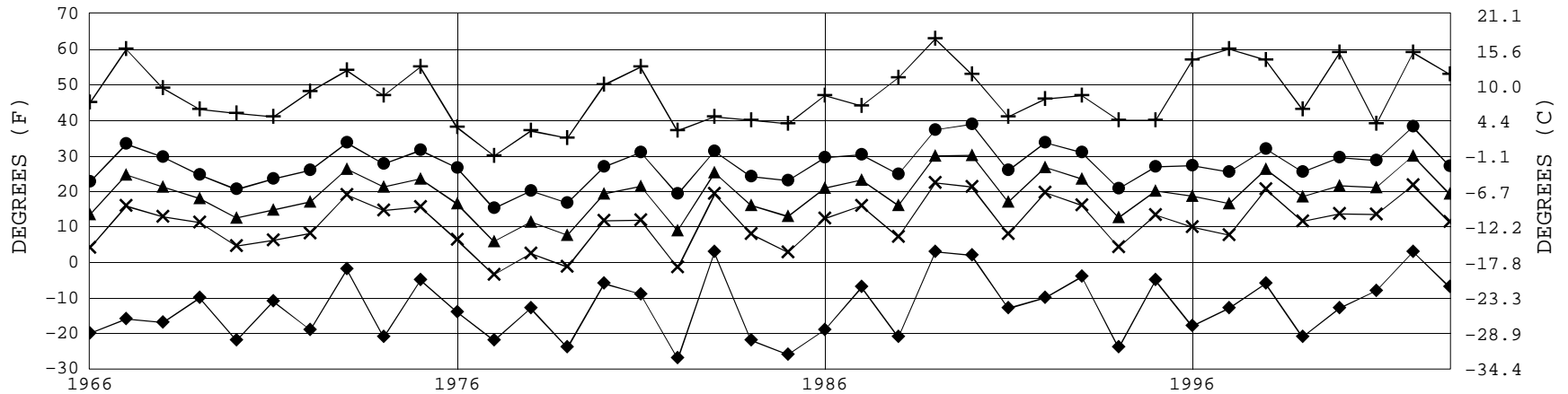
JANUARY 2003

RFD

WBAN # 94822

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	OBSERVATION TIME (LST)	EFF CLD AMT Okta		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT Okta		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																
SUNRISE: 0716								JAN 25								SUNSET: 1701								SUNRISE: 0711								JAN 31								SUNSET: 1709							
03	OVC	024			10.00			16	3	13	56	12	23	29.44	30.28	03	OVC	080			8.00				33	26	30	75	14	17	29.11	29.92															
06	CLR	NC			10.00			15	4	12	61	7	20	29.41	30.25	06	OVC	007			3.00	-FZRAPL BR			33	30	32	89	14	19	29.05	29.86															
09	OVC	024			10.00			15	5	13	64	10	21	29.38	30.23	09	OVC	007			2.00	-SN			33	31	32	92	8	19	29.04	29.85															
12	BKN	250			10.00			26	9	21	48	10	21	29.31	30.14	12	OVC	005			4.00	-SN BR			34	31	33	89	7	22	29.03	29.84															
15	BKN	250			10.00			30	13	25	49	14	27	29.25	30.08	15	OVC	010			6.00	HZ			36	31	34	82	9	35	29.02	29.83															
18	OVC	037			4.00		-SN	27	21	25	78	12	29	29.30	30.14	18	OVC	018			6.00	HZ			34	28	32	79	9	36	29.12	29.93															
21	OVC	023			6.00		HZ	22	15	20	75	14	33	29.35	30.19	21	OVC	021			5.00	HZ			33	28	31	82	7	33	29.14	29.96															
24	OVC	120			10.00			15	4	12	61	17	35	29.42	30.26	24	OVC	027			5.00	HZ			32	27	30	82	9	31	29.16	29.98															
SUNRISE: 0715								JAN 26								SUNSET: 1703								3-HOURLY OBSERVATION NOTES																							
03	OVC	047			8.00			12	2	10	64	18	34	29.47	30.31	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 Visibility = 8/8.																															
06	SCT	NC			10.00			8	-4	6	57	16	34	29.54	30.38	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
09	CLR	NC			10.00			6	-7	4	54	15	33	29.61	30.46	NC= No ceiling detected.																															
12	CLR	NC			10.00			10	-7	7	45	14	31	29.63	30.49	& = Original observation contained additional weather elements.																															
15	CLR	NC			10.00			13	-6	9	42	14	31	29.62	30.47	See page 3 for additional notes.																															
18	CLR	NC			10.00			7	-7	5	52	9	28	29.68	30.54																																
21	CLR	NC			10.00			3	-9	1	57	8	30	29.70	30.56																																
24	CLR	NC			10.00			-1	-10	-2	65	3	21	29.69	30.56																																
SUNRISE: 0714								JAN 27								SUNSET: 1704																															
03	CLR	NC			10.00			-7	-12	-8	79	3	19	29.69	30.55																																
06	SCT	NC			10.00			-2	-8	-3	75	3	15	29.65	30.52																																
09	OVC	075			10.00			7	-3	5	63	13	19	29.63	30.49																																
12	OVC	039			10.00			11	-1	9	58	20	18	29.53	30.38																																
15	OVC	045			10.00			18	4	15	54	21	17	29.34	30.19																																
18	BKN	180			10.00			16	6	14	65	16	19	29.33	30.18																																
21	OVC	180			10.00			17	10	15	74	15	19	29.30	30.14																																
24	OVC	110			10.00			20	10	17	65	8	17	29.25	30.09																																
SUNRISE: 0714								JAN 28								SUNSET: 1705																															
03	OVC	250			10.00			20	12	18	71	7	17	29.21	30.05																																
06	OVC	090			10.00			22	13	19	68	6	16	29.20	30.04																																
09	OVC	085			10.00			25	17	23	72	9	17	29.21	30.04																																
12	OVC	015			1.25		-SN BR	27	24	26	89	6	04	29.20	30.03																																
15	VV	010			1.00		-SN BR	28	26	27	92	0	00	29.20	30.03																																
18	OVC	021			5.00		BR	28	25	27	88	8	01	29.24	30.07																																
21	OVC	028			5.00		BR	27	24	26	89	8	35	29.29	30.12																																
24	OVC	014			7.00			26	21	24	81	10	35	29.34	30.17																																
SUNRISE: 0713								JAN 29								SUNSET: 1707																															
03	OVC	020			10.00			23	16	21	74	8	35	29.41	30.24																																
06	OVC	018			10.00			20	14	18	78	10	36	29.47	30.30																																
09	OVC	022			10.00			19	12	17	74	10	01	29.54	30.37																																
12	SCT	NC			10.00			22	12	19	66	10	02	29.57	30.40																																
15	FEW	NC			10.00			25	12	21	58	5	33	29.57	30.41																																
18	FEW	NC			10.00			18	8	15	65	0	00	29.57	30.42																																
21	OVC	024			7.00			12	8	11	84	0	00	29.56	30.40																																
24	OVC	020			9.00			13	8	12	81	3	18	29.55	30.39																																
SUNRISE: 0712								JAN 30								SUNSET: 1708																															
03	OVC	065			7.00			16	12	15	84	7	21	29.52	30.35																																
06	OVC	015			7.00			17	13	16	84	8	19	29.47	30.31																																
09	SCT	NC			5.00		BR	17	14	16	88	6	17	29.47	30.32																																
12	BKN	090			6.00		BR	24	20	23	84	14	19	29.39	30.23																																
15	OVC	011			6.00		BR	28	24	27	85	17	17	29.29	30.13																																
18	OVC	100			10.00			28	23	26	81	16	18	29.25	30.09																																
21	BKN	110			8.00			30	25	28	82	20	17	29.17	30.00																																
24	OVC	080			8.00			32	27	30	82	13	19	29.18	30.01																																

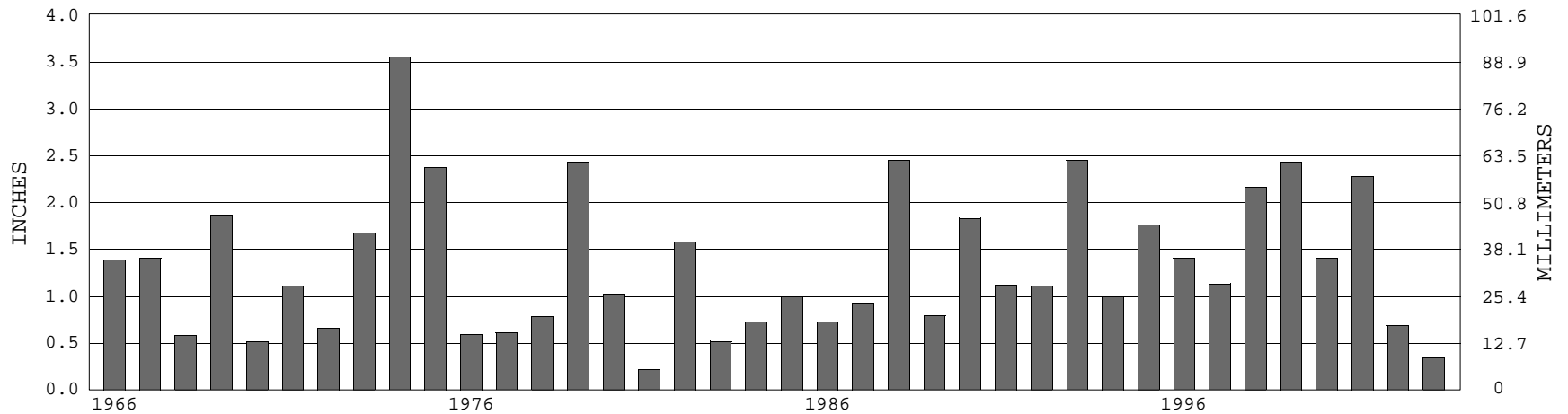
ROCKFORD, IL JANUARY TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1966-2003) Mean: 19.2 1961-1990 Normal: 19.0

ROCKFORD, IL JANUARY PRECIPITATION



Long-Term (1966-2003) Mean Monthly Total: 1.33

1961-1990 Normal: 1.41



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ROCKFORD, IL

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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