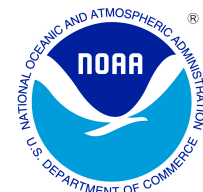




JANUARY 2007 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA
RICHMOND INTERNATIONAL AIRPORT (KRIC)
 Lat: 37° 30' N Long: 77° 19' W Elev (Ground) 163 Feet
 Time Zone : EASTERN WBAN: 13740 ISSN#: 0198-537X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
																		SPEED	DIR	SPEED	DIR			
01	66	50	58	21	55	57	7	0	RA BR			0.0	1.60	29.70	29.90	5.9	21	11.3	32	27	26	25	01	
02	55	34	45	8	31	39	20	0				0.0	0.00	30.06	30.31	5.7	32	6.1	22	31	18	32	02	
03	59	31	45	8	32	39	20	0				0.0	0.00	30.22	30.41	5.8	20	6.0	21	21	17	21	03	
04	67	43	55	18	48	51	10	0				0.0	0.00	30.05	30.22	8.5	20	8.9	24	22	20	21	04	
05	69	55	62	25	59	60	3	0	RA BR			0.0	0.04	29.82	29.99	8.2	18	8.4	21	19	17	19	05	
06	73	49	61	25	53	58	4	0	RA BR			0.0	0.41	29.68	29.90	9.3	24	10.5	25	26	21	26	06	
07	61	45	53	17	44	48	12	0	RA FG BR			0.0	0.50	29.99	30.16	5.8	12	8.0	22	13	17	18	07	
08	63	39	51	15	38	46	14	0	RA BR			0.0	0.38	29.61	29.82	7.8	27	11.0	35	30	29	30	08	
09	52	29	41	5	24	34	24	0	RA			0.0	T	29.75	29.96	7.2	26	9.8	30	28	24	28	09	
10	43	27	35	-1	14	29	30	0				0.0	0.00	30.07	30.33	8.4	30	9.2	28	33	23	32	10	
11	47	24	36	0	20	30	29	0				0.0	0.00	30.40	30.61	4.9	18	5.2	20	18	15	18	11	
12	57	35	46	10	38	43	19	0	RA			0.0	0.01	30.27	30.46	7.7	20	8.1	23	23	17	22	12	
13	72	47	60	24	49	54	5	0	RA			0.0	T	30.12	30.30	9.5	22	10.1	23	23	18	24	13	
14	74*	52	63	27	51	56	2	0				0.0	0.00	30.03	30.21	8.7	20	8.9	23	20	18	22	14	
15	72	56	64*	28	54	59	1	0				0.0	0.00	29.86	30.02	14.5	21	14.9	32	22	26	22	15	
16	67	37	52	16	36	46	13	0	RA			0.0	T	29.84	30.09	7.5	34	12.6	26	01	22	01	16	
17	37	25	31	-5	11	25	34	0				0.0	0.00	30.45	30.69	6.9	02	8.8	29	02	22	36	17	
18	35	24	30	-6	25	29	35	0	RA DZ SN BR UP			T	0.07	30.23	30.46	2.7	34	3.0	10	32	8	33	18	
19	54	35	45	9	26	36	20	0	RA DZ BR			0.0	T	29.82	30.01	9.7	28	10.7	26	30	23	30	19	
20	44	29	37	1	11	28	28	0				0.0	0.00	29.99	30.22	7.6	32	10.6	36	33	29	33	20	
21	33	27	30	-6	20	27	35	0	RA FZRA SN PL BR			T	0.29	30.12	30.35	3.0	08	4.5	13	17	10	16	21	
22	37	33	35	-1	33	34	30	0	RA DZ FZRA FZDZ FG+ FG BR			0.0	0.14	29.78	29.94	1.3	26	2.8	9	13	9	13	22	
23	46	28	37	1	27	34	28	0	BR HZ			0.0	0.00	29.77	29.97	3.0	32	4.6	17	36	14	30	23	
24	45	24	35	-1	23	30	30	0				0.0	0.00	29.85	30.05	1.0	32	3.3	15	28	12	28	24	
25	43	27	35	-1	21	30	30	0	SN FG+ FG BR			T	0.02	29.74	29.95	7.8	32	9.8	33	31	28	29	25	
26	39	17*	28*	-9	8	23	37	0				0.0	0.00	29.90	30.09	2.5	26	7.0	29	33	25	33	26	
27	62	30	46	9	21	38	19	0				0.0	0.00	29.65	29.83	12.7	23	12.9	28	23	23	24	27	
28	52	32	42	5	29	37	23	0	RA SN			T	T	29.48	29.68	5.2	35	10.0	33	31	25	31	28	
29	35	22	29	-8	4	22	36	0				0.0	0.00	29.83	30.07	11.0	29	12.7	38*	32	30*	31	29	
30	49	22	36	-1	13	28	29	0				0.0	0.00	29.83	30.02	7.6	24	9.8	25	22	22	19	30	
31	37	23	30	-7	6	23	35	0				0.0	0.00	29.94	30.17	7.6	31	9.0	26	32	22	32	31	

**JANUARY 2007
RICHMOND, VA**

53.1	33.9	43.5	☼	29.8	38.5	21.4	0.0	< MONTHLY AVERAGES TOTALS >				T	3.46	29.93	30.13	3.8	25	8.7	< MONTHLY AVERAGES			
7.8	6.3	7.1		-----DEPARTURE FROM NORMAL ----->								-0.09	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.60 DATE : 01				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : T DATE : 28+				MAXIMUM : 30.77 17 1157										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.62 28 1354										
HEATING :		662 -211		1757		-587		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 17		PRECIPITATION >= 0.01 INCH : 10								
COOLING :		0 0		0		0				MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 6								
										THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL >= 1.0 INCH : 0								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
JANUARY 2007

WBAN # 13740

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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	T	T	T		T	0.06	0.21	0.58	0.20	0.04	T	0.13	01	0.11	0.17	0.08	T	T	0.02	T					01	1.60	1.60	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05							0.01	0.01	0.01	T	T		05		0.01										05	0.04	0.04	
06	T	0.41	T										06												06	0.41	0.41	
07													07			T	T	0.01	0.06	0.17	0.08	0.07	0.10	0.01	07	0.50	0.50	
08	0.02	0.03	0.06	0.02	0.04	0.15	0.01	0.02	0.01	0.02	T		08												08	0.38	0.38	
09													09			T	T	T							09	T	T	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12										T	T	T	12		T	0.01	T	T						12	0.01	0.01		
13						T	T	T					13												13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16		T	T										16												16	T	T	
17													17												17	0.00	0.00	
18									T	0.01	T	T	18	0.01		T	0.01	T	T	0.02	T	0.01	T	0.01	18	0.07	0.07	
19	T	T											19												19	T	T	
20													20												20	0.00	0.00	
21													21	T	0.02	0.04	0.02	0.01	0.03	0.05	0.04	0.02	0.01	0.03	0.02	21	0.29	0.29
22	0.10	0.04	T	T	T	T	T	T					22												22	0.14	0.14	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25	T	T	0.02	T	T							25	0.02	0.02	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28			T	T	T	T	T	T					28		T	T	T	T					T		28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.22	0.33	0.35	0.37	0.39	0.47	0.59	0.78	0.88	0.92	0.98	1.02
Ending Date	06	06	06	06	06	01	01	01	01	01	01	01
Ending Time (Hr/Min)	0140	0142	0146	0142	0152	0732	0758	0809	0816	0816	0902	0905

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

RICHMOND, VA JANUARY 2007

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:

Station Augmentation-SANDSTON COOP
Lat/Lon:37.54417/-77.27583 Elevation:165
Distance:4 MI Dir:E
Augmented Elements:Temp, Precip, Snow
Equipment:MMTS, SRG, Snowboard

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							1.50	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							1.00	10.00	
06							5.00	10.00	
07							0.50	10.00	
08							3.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							2.00	10.00	
19							2.00	10.00	
20							10.00	10.00	
21							2.00	10.00	
22							0.12	7.00	
23							2.50	10.00	
24							8.00	10.00	
25							2.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							7.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.99	9.90	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
1		10			20				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 2007

KRIC

WBAN # 13740

Table with columns for Hour (LST), Sky Cover, Ceiling, Satellite, Visibility, Weather, Temperature (Dry Bulb, Dew Point, Wet Bulb), Wind (Speed, Direction), and Pressure (Station, Sea Level). Data is organized by day (JAN 01 to JAN 12) and includes sunrise/sunset times and weather codes.

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0717						JAN 25						SUNSET: 1725					
01	BKN	250				29	23	27	78	3	22	29.80	30.00				
04	OVC	250				31	25	29	78	0	00	29.76	29.96				
07	OVC	065				31	26	29	82	9	02	29.76	29.96				
10	OVC	250				36	25	32	64	8	01	29.77	29.97				
13	SCT	090				42	25	35	51	9	26	29.69	29.88				
16	OVC	080			-SN	36	30	34	79	21	01	29.69	29.89				
19	FEW	070				35	14	28	42	10	31	29.73	29.93				
22	FEW	060				30	7	24	38	14	33	29.81	30.01				
SUNRISE: 0716						JAN 26						SUNSET: 1726					
01	FEW	060				26	5	20	40	10	33	29.89	30.09				
04	CLR	NC				22	5	18	48	13	36	29.91	30.11				
07	CLR	NC				18	7	15	62	0	00	29.98	30.17				
10	CLR	NC				25	4	20	40	7	20	30.00	30.19				
13	FEW	100				35	8	27	32	11	25	29.89	30.09				
16	BKN	065				39	8	29	28	11	25	29.86	30.06				
19	BKN	065				37	12	29	36	3	15	29.85	30.05				
22	CLR	NC				31	15	26	51	3	14	29.81	30.01				
SUNRISE: 0715						JAN 27						SUNSET: 1727					
01	FEW	200				31	16	26	54	8	21	29.75	29.94				
04	CLR	NC				37	18	30	46	11	22	29.72	29.92				
07	CLR	NC				40	18	32	41	10	24	29.70	29.90				
10	CLR	NC				50	20	38	31	13	25	29.69	29.89				
13	FEW	250				60	23	44	24	18	24	29.61	29.81				
16	SCT	250				61	23	45	23	20	23	29.53	29.72				
19	BKN	250				49	23	39	36	9	21	29.57	29.76				
22	OVC	250				53	25	41	34	13	22	29.55	29.74				
SUNRISE: 0715						JAN 28						SUNSET: 1728					
01	OVC	200				52	25	41	35	9	22	29.53	29.72				
04	OVC	065			-RA	48	32	41	54	5	21	29.49	29.68				
07	OVC	060			-RA	47	33	41	58	6	02	29.47	29.65				
10	OVC	100				49	31	41	50	10	03	29.49	29.68				
13	OVC	055				48	32	41	54	14	36	29.44	29.63				
16	OVC	027			-RA	37	32	35	82	14	02	29.45	29.65				
19	OVC	060				35	30	33	82	3	34	29.49	29.68				
22	OVC	065				35	27	32	73	11	32	29.52	29.71				
SUNRISE: 0714						JAN 29						SUNSET: 1729					
01	BKN	070				33	11	26	40	21	31	29.62	29.81				
04	CLR	NC				25	1	19	35	23	31	29.76	29.96				
07	CLR	NC				22	2	17	42	10	29	29.87	30.06				
10	CLR	NC				28	2	21	32	13	30	29.94	30.14				
13	CLR	NC				33	4	25	29	13	28	29.91	30.11				
16	FEW	250				35	3	26	26	14	25	29.90	30.10				
19	CLR	NC				31	3	23	30	10	25	29.93	30.13				
22	CLR	NC				24	8	20	50	8	21	29.92	30.12				
SUNRISE: 0713						JAN 30						SUNSET: 1730					
01	FEW	250				24	8	20	50	7	21	29.92	30.12				
04	BKN	250				26	8	21	46	6	26	29.92	30.11				
07	BKN	200				23	11	20	60	3	17	29.92	30.12				
10	BKN	250				35	14	28	42	6	22	29.92	30.12				
13	FEW	250				47	15	36	28	13	20	29.79	29.98				
16	BKN	080				47	17	36	30	16	24	29.69	29.88				
19	BKN	085				45	18	35	34	7	25	29.70	29.90				
22	SCT	250				39	15	31	38	17	30	29.76	29.95				

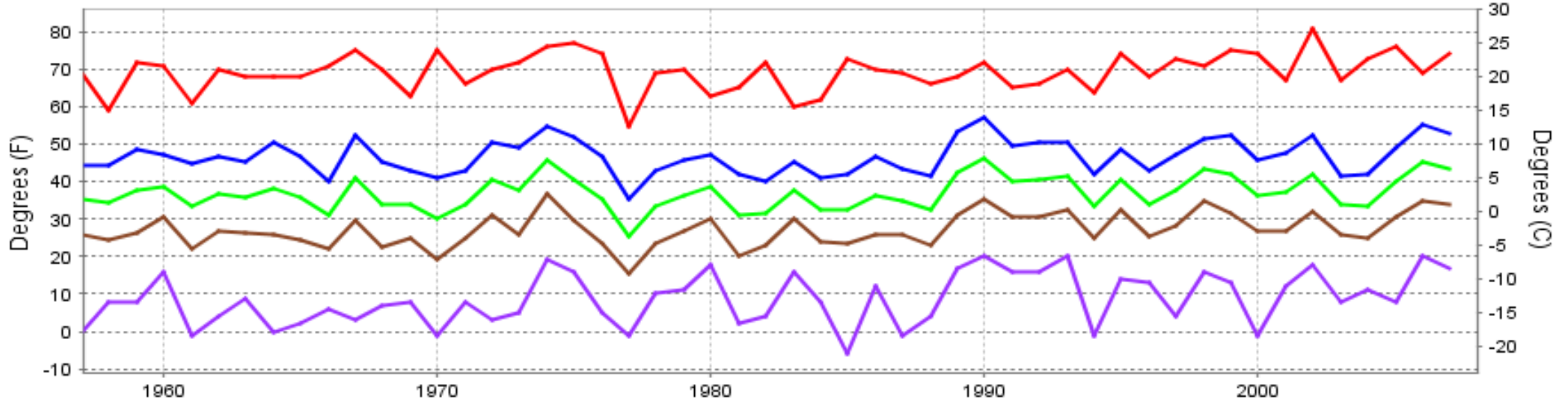
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0712						JAN 31						SUNSET: 1731					
01	BKN	250				32	7	25	35	14	31	29.80	30.00				
04	SCT	250				28	5	22	37	15	32	29.86	30.06				
07	FEW	250				25	4	20	40	14	32	29.95	30.15				
10	CLR	NC				30	5	23	34	11	31	30.04	30.24				
13	CLR	NC				34	5	26	29	7	34	30.01	30.22				
16	SCT	250				36	5	27	27	9	32	30.01	30.20				
19	BKN	250				30	6	23	36	3	15	29.99	30.19				
22	OVC	250				25	12	21	58	0	00	30.00	30.20				

3-HOURLY OBSERVATION NOTES
 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, W = Vertical Visibility = 8/8
 Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.
 & = Original observation contained additional weather elements.
 See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			41	30	37	66	29.93	30.13	8.90	8	4	25
02			40	30	36	67	29.93	30.13	9.19	7	4	24
03			40	29	36	68	29.93	30.13	9.32	7	3	24
04			40	30	36	69	29.93	30.12	9.58	7	4	24
05			40	30	36	69	29.93	30.13	9.11	7	3	24
06			39	30	36	70	29.94	30.13	9.42	8	3	24
07			39	30	36	70	29.95	30.15	9.05	7	3	24
08			40	30	36	70	29.97	30.16	8.92	7	3	24
09			43	31	38	65	29.98	30.17	8.79	9	4	25
10			46	31	40	59	29.99	30.18	9.23	11	4	25
11			48	30	41	53	29.98	30.18	9.33	11	5	25
12			49	30	41	50	29.96	30.15	9.17	12	6	26
13			50	30	42	49	29.93	30.13	9.04	12	6	26
14			51	30	42	48	29.91	30.11	9.04	12	8	26
15			51	30	42	49	29.91	30.10	9.36	11	7	26
16			50	30	42	51	29.91	30.10	9.27	11	6	25
17			49	30	41	52	29.91	30.11	9.21	9	5	25
18			47	30	40	55	29.92	30.12	9.34	7	4	24
19			45	30	39	58	29.94	30.13	9.11	7	3	24
20			44	30	38	61	29.94	30.14	9.03	7	3	23
21			42	30	38	64	29.94	30.14	9.05	7	3	23
22			42	30	37	64	29.94	30.14	9.10	8	4	24
23			41	29	37	64	29.95	30.14	8.96	8	5	25
24			41	28	36	64	29.94	30.14	8.92	8	4	25

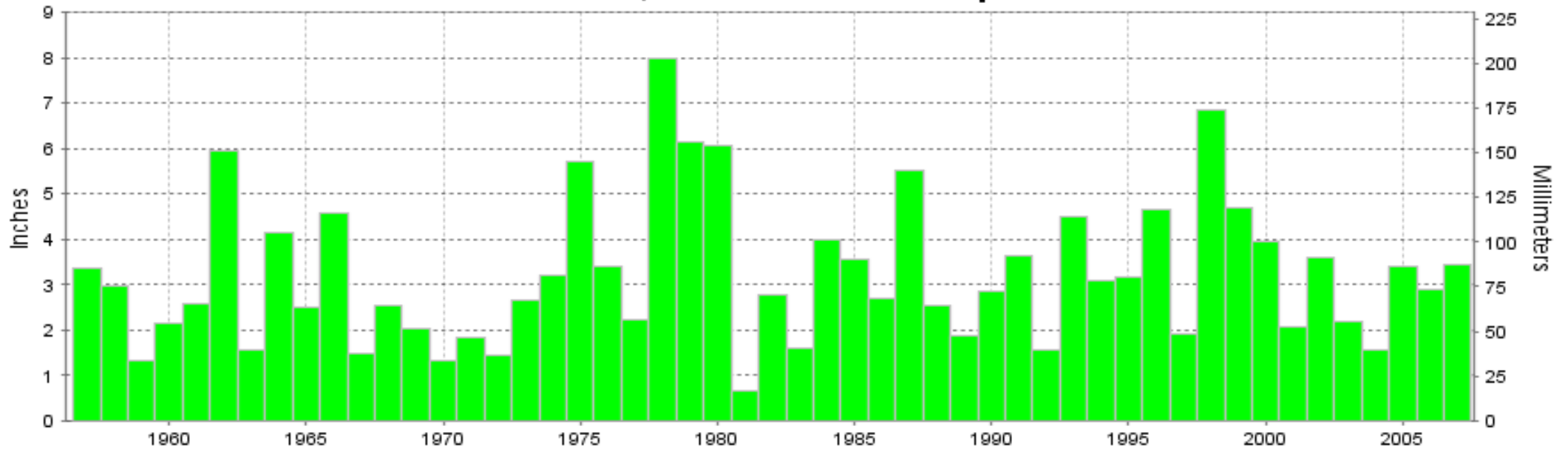
RICHMOND, VA JANUARY Temperatures



— Extreme Max
 — Mean Max
 — Mean
 — Mean Min
 — Extreme Min

Long-Term (1957-2007) Mean: 37.0
1971-2000 Normal: 36.4

RICHMOND, VA JANUARY Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.22

1971-2000 Normal: 3.55



**JANUARY 2007
RICHMOND, VA**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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