



SEPTEMBER 2006 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



**SEPTEMBER 2006
RICHMOND, VA**

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 20	DIR 21	SPEED 22	DIR 23																						
01	72	65	69	-5	66	67	0	4	RA BR			0.0	3.62	29.60	29.77	21.0	03	21.6	45	03	33*	03	01																				
02	81	61	71	-3	61	64	0	6	RA DZ BR			0.0	0.04	29.71	29.90	6.3	31	9.1	23	36	18	36	02																				
03	86	66	76	3	65	68	0	11	RA BR HZ			0.0	T	29.86	30.05	2.8	04	3.1	12	07	10	05	03																				
04	74	70	72	-1	65	67	0	7	RA BR HZ			0.0	0.20	29.92	30.11	6.6	02	6.8	14	03	12	02	04																				
05	76	66	71	-2	65	67	0	6	RA FG BR HZ			0.0	1.93	29.82	30.01	3.5	34	7.4	21	31	17	30	05																				
06	81	65	73	1	62	66	0	8	RA BR HZ			0.0	T	29.83	30.03	1.0	17	3.4	14	23	10	35	06																				
07	85	64	75	3	62	66	0	10	BR HZ			0.0	0.00	29.88	30.08	2.1	05	3.6	12	01	9	04	07																				
08	83	66	75	3	63	67	0	10	BR HZ			0.0	0.00	29.90	30.09	3.4	16	3.8	13	13	10	13	08																				
09	87	64	76	4	63	67	0	11	BR HZ			0.0	0.00	29.88	30.07	1.2	29	2.8	9	31	8	36	09																				
10	87	65	76	5	62	67	0	11	BR HZ			0.0	0.00	29.92	30.12	4.6	04	5.6	16	05	13	06	10																				
11	74	64	69	-2	59	63	0	4	BR			0.0	0.00	30.06	30.26	6.9	06	7.3	18	06	14	09	11																				
12	72	59	66	-5	53	59	0	1				0.0	0.00	30.06	30.24	3.2	07	4.8	16	10	12	07	12																				
13	70	58	64	-7	57	60	1	0	RA BR			0.0	0.11	29.88	30.05	2.3	16	4.5	13	19	10	12	13																				
14	72	63	68	-3	65	66	0	3	RA FG BR HZ			0.0	1.43	29.75	29.93	1.7	08	6.4	17	01	14	14	14																				
15	81	61	71	1	61	64	0	6	BR HZ			0.0	0.00	29.80	30.00	7.9	36	8.1	20	36	16	01	15																				
16	77	67	72	2	64	66	0	7	RA DZ			0.0	0.01	29.87	30.07	9.4	36	9.5	23	01	18	36	16																				
17	84	64	74	4	63	66	0	9	BR HZ			0.0	0.00	29.83	30.00	2.1	33	3.7	14	32	12	32	17																				
18	87	62	75	5	62	66	0	10	BR HZ			0.0	0.00	29.73	29.91	5.3	20	5.6	17	21	15	21	18																				
19	82	67	75	5	66	69	0	10	RA BR HZ			0.0	0.07	29.59	29.77	3.5	21	7.0	24	01	20	02	19																				
20	72	55	64	-5	50	57	1	0				0.0	0.00	29.67	29.89	6.1	35	6.8	17	02	16	33	20																				
21	72	50	61	-7	45	52	4	0				0.0	0.00	29.93	30.14	3.6	02	5.0	18	01	16	01	21																				
22	73	50	62	-6	51	56	3	0				0.0	0.00	29.99	30.18	5.5	17	5.7	15	16	14	18	22																				
23	84	65	75	7	66	69	0	10	HZ			0.0	0.00	29.81	29.98	11.4	20	11.8	31	22	24	21	23																				
24	89*	70	80*	13	69	72	0	15	TSRA RA BR			0.0	1.04	29.64	29.81	12.3	22	12.7	28	33	23	34	24																				
25	77	59	68	1	58	62	0	3	RA			0.0	0.01	29.72	29.92	3.5	26	5.0	17	24	15	24	25																				
26	79	53	66	0	51	57	0	1				0.0	0.00	29.85	30.04	0.8	32	2.6	17	24	14	23	26																				
27	78	55	67	1	53	59	0	2	BR			0.0	0.00	29.80	29.99	2.4	17	3.3	14	19	10	20	27																				
28	82	59	71	5	57	61	0	6	TS TSRA RA FG BR			0.0	1.06	29.64	29.81	7.5	18	10.4	45*	31	32	29	28																				
29	72	52	62	-3	49	55	3	0				0.0	0.00	29.72	29.94	3.5	30	5.4	21	31	16	26	29																				
30	73	48*	61*	-4	49	55	4	0	RA			0.0	T	29.91	30.10	5.8	18	6.2	21	21	17	21	30																				
78.7				61.1				69.9				α		59.4		63.3		0.5		5.7		< MONTHLY AVERAGES TOTALS >				0.0		9.52		29.81		30.01		0.6		01		6.6		< MONTHLY AVERAGES			
-1.0				1.2				0.1				α		<-----DEPARTURE FROM NORMAL----->		5.54		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																									
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 3.62 DATE : 01								SEA LEVEL PRESSURE																											
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.30 12 0937				MINIMUM : 29.65 28 1757																											
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : DATE :				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 11																											
HEATING : 16				-11				16				-12				PRECIPITATION >= 0.10 INCH : 7																											
COOLING : 171				-16				1644				249				THUNDERSTORMS : 2				HEAVY FOG : 0				SNOWFALL >= 1.0 INCH : 0																			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
SEPTEMBER 2006

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	0.10	0.07	0.03	0.12	0.14	0.19	0.24	0.60	0.23	0.27	0.28	0.31	01	0.25	0.17	0.10	0.07	0.08	0.05	0.07	0.09	0.06	0.04	0.05	0.01	01	3.62	3.62	
02	0.01	0.01	0.01	T	T	T	0.01	T	T	T	T		02													02	0.04	0.04	
03													03													03	T	T	
04				0.11	T			T					04	0.09	T	T										04	0.20	0.20	
05			0.04	0.31	0.80	0.15	0.16	T	0.05	0.40	0.01	0.01	05				T				T	T	T		05	1.93	1.93		
06	T	T	T	T	T								06													06	T	T	
07													07													07	0.00	0.00	
08													08													08	0.00	0.00	
09													09													09	0.00	0.00	
10													10													10	0.00	0.00	
11													11													11	0.00	0.00	
12													12													12	0.00	0.00	
13					T				T	T			13	T	T	T	T	0.01							13	0.11	0.11		
14	0.05	0.09	0.06	0.09	0.02	0.15	0.12	0.03	0.04	0.03	0.07	0.28	14	0.22	0.04	0.08	0.05	T		T	0.01	T		0.05	0.01	0.04	14	1.43	1.43
15													15													15	0.00	0.00	
16		T			0.01	T	T						16			T	T									16	0.01	0.01	
17													17													17	0.00	0.00	
18													18													18	0.00	0.00	
19													19					0.07		T						19	0.07	0.07	
20										T	T		20													20	0.00	0.00	
21													21													21	0.00	0.00	
22													22													22	0.00	0.00	
23													23													23	0.00	0.00	
24													24			T						0.84	0.17	0.03	24	1.04	1.04		
25	T	0.01											25												25	0.01	0.01		
26													26													26	0.00	0.00	
27													27													27	0.00	0.00	
28													28						T	0.49	0.20	0.12	0.20	0.05	28	1.06	1.06		
29													29													29	0.00	0.00	
30													30										T	T	30	T	T		

* 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)	0.27	0.47	0.67	0.85	0.99	1.02	1.04	1.09	1.12	1.13	1.33	1.38
Ending Date	24	05	24	05	05	05	05	05	05	05	05	05
Ending Time (Hr/Min)	2140	0418	2150	0418	0418	0432	0423	0418	0432	0432	0617	0617

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 SEPTEMBER 2006

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							1.00	5.00	
02							2.00	10.00	
03							1.00	10.00	
04							3.00	10.00	
05							1.50	10.00	
06							5.00	10.00	
07							2.00	10.00	
08							2.00	10.00	
09							3.00	10.00	
10							2.00	9.00	
11							4.00	10.00	
12							10.00	10.00	
13							6.00	10.00	
14							0.50	10.00	
15							1.25	10.00	
16							8.00	10.00	
17							4.00	10.00	
18							5.00	10.00	
19							4.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							6.00	10.00	
24							2.50	10.00	
25							10.00	10.00	
26							7.00	10.00	
27							5.00	10.00	
28							4.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							4.99	9.80	
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		
0			12				9		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

SEPTEMBER 2006 KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL		
																												Observation Time (LST)	Eff Cld Amt Oktas
SUNRISE: 0538 SEP 01						SUNSET: 1837						SUNRISE: 0543 SEP 07						SUNSET: 1828											
01	OVC	014			5.00	RA BR	67	64	65	90	15	04	29.81	30.00	01	BKN	250			4.00	BR	67	64	65	90	3	04	29.87	30.06
04	OVC	017			3.00	+RA BR	68	65	66	90	17	05	29.74	29.93	04	SCT	030			4.00	BR	66	62	64	87	0	00	29.86	30.05
07	OVC	019			2.00	+RA BR	68	65	66	90	25	04	29.65	29.84	07	BKN	250			3.00	BR	68	64	66	87	3	36	29.90	30.09
10	OVC	016			1.50	+RA	72	66	68	82	22	04	29.57	29.76	10	BKN	250			9.00		78	64	69	62	7	VR	29.94	30.12
13	OVC	016			1.50	RA	69	64	66	84	28	04	29.47	29.66	13	SCT	250			10.00		82	58	67	44	0	00	29.90	30.09
16	OVC	024			2.00	RA BR	69	68	68	97	25	02	29.47	29.66	16	SCT	150			10.00		83	58	67	43	6	05	29.87	30.06
19	OVC	019			1.75	-RA BR	68	68	68	100	24	01	29.49	29.68	19	BKN	250			9.00		75	62	67	64	5	09	29.87	30.06
22	OVC	007			2.00	-RA BR	68	68	68	100	16	01	29.53	29.72	22	BKN	250			6.00	HZ	70	64	66	81	3	11	29.90	30.09
SUNRISE: 0539 SEP 02						SUNSET: 1835						SUNRISE: 0544 SEP 08						SUNSET: 1826											
01	OVC	006			2.00	-RA BR	65	64	64	97	15	36	29.55	29.73	01	OVC	250			5.00	HZ	68	63	65	84	3	19	29.90	30.09
04	OVC	006			2.00	-RA BR	63	63	63	100	14	31	29.59	29.78	04	BKN	250			3.00	BR	67	63	65	87	0	00	29.89	30.08
07	OVC	011			2.00	-DZ BR	61	61	61	100	10	29	29.65	29.84	07	OVC	250			2.00	BR	68	64	66	87	0	00	29.94	30.13
10	OVC	013			7.00	-DZ	65	61	63	87	10	28	29.72	29.91	10	BKN	250			8.00		77	65	69	67	5	19	29.95	30.14
13	BKN	040			10.00		73	61	66	66	10	25	29.74		13	OVC	250			7.00		81	62	69	53	3	VR	29.92	30.11
16	SCT	200			10.00		80	58	66	47	7	27	29.74	29.93	16	SCT	250			7.00		83	61	69	48	7	18	29.87	30.06
19	FEW	050			10.00		73	62	66	69	3	07	29.77	29.96	19	BKN	250			8.00		75	63	67	66	8	14	29.86	30.04
22	FEW	055			10.00		68	62	64	81	7	05	29.83	30.02	22	BKN	042			9.00		71	62	65	73	5	14	29.90	30.09
SUNRISE: 0540 SEP 03						SUNSET: 1834						SUNRISE: 0545 SEP 09						SUNSET: 1825											
01	FEW	045			10.00		67	63	65	87	3	05	29.83	30.02	01	FEW	040			7.00		68	62	64	81	0	00	29.89	30.08
04	OVC	003			8.00		67	64	65	90	0	00	29.83	30.02	04	CLR	NC			6.00	BR	65	61	63	87	0	00	29.89	30.08
07	BKN	250			3.00	BR	69	65	66	87	0	00	29.88	30.07	07	CLR	NC			3.00	BR	68	63	65	84	0	00	29.91	30.10
10	OVC	065			7.00		76	66	70	71	0	00	29.90	30.09	10	FEW	025			6.00	HZ	78	65	70	64	6	20	29.91	30.10
13	BKN	065			10.00		80	65	70	60	6	03	29.88	30.07	13	BKN	250			8.00		84	64	71	51	7	32	29.87	30.06
16	SCT	080			10.00		85	65	72	51	5	01	29.85	30.03	16	BKN	250			10.00		85	61	70	45	6	33	29.85	30.03
19	FEW	045			10.00		77	67	70	71	8	07	29.85	30.04	19	BKN	200			9.00		77	63	68	62	5	36	29.85	30.04
22	FEW	015			6.00	HZ	72	67	69	84	6	05	29.89	30.08	22	BKN	250			6.00	HZ	72	64	67	76	0	00	29.89	30.08
SUNRISE: 0541 SEP 04						SUNSET: 1832						SUNRISE: 0546 SEP 10						SUNSET: 1823											
01	OVC	030			6.00	BR	70	66	67	87	6	04	29.90	30.09	01	SCT	250			4.00	BR	67	63	65	87	0	00	29.90	30.09
04	OVC	015			4.00	-RA BR	70	66	67	87	10	02	29.90	30.09	04	BKN	250			4.00	BR	66	62	64	87	5	34	29.90	30.09
07	OVC	150			5.00	BR	70	66	67	87	9	02	29.93	30.12	07	SCT	250			2.00	BR	68	62	64	81	5	36	29.93	30.12
10	OVC	019			8.00		72	65	68	79	9	02	29.96	30.14	10	CLR	NC			7.00		82	62	69	51	8	03	29.95	30.14
13	OVC	015			3.00	-RA BR	71	64	67	79	7	02	29.94	30.13	13	FEW	050			7.00		85	59	69	41	9	01	29.93	30.12
16	OVC	015			9.00		73	66	69	79	6	02	29.90	30.09	16	SCT	060			9.00		86	59	69	40	8	06	29.91	30.10
19	OVC	023			7.00		71	66	68	84	7	01	29.91	30.10	19	FEW	150			6.00	HZ	76	64	68	67	5	07	29.93	30.12
22	OVC	060			7.00		71	65	67	81	3	05	29.93	30.12	22	FEW	250			6.00	HZ	70	65	67	84	6	08	29.98	30.17
SUNRISE: 0542 SEP 05						SUNSET: 1831						SUNRISE: 0547 SEP 11						SUNSET: 1822											
01	OVC	030			5.00	HZ	70	65	67	84	5	10	29.89	30.08	01	BKN	015			4.00	BR	67	63	65	87	3	01	30.01	30.19
04	OVC	002			1.50	+RA BR	70	67	68	90	5	15	29.84	30.03	04	FEW	095			4.00	BR	65	62	63	90	6	03	30.02	30.21
07	OVC	020			3.00	-RA BR	73	70	71	90	8	15	29.82	30.01	07	CLR	NC			10.00		66	62	64	87	8	04	30.05	30.24
10	OVC	027			1.50	+RA BR	69	66	67	90	9	32	29.83	30.02	10	BKN	024			10.00		72	60	65	66	11	08	30.09	30.28
13	OVC	012			10.00		71	65	67	81	9	32	29.78	29.97	13	OVC	029			10.00		71	58	63	64	9	07	30.10	30.29
16	OVC	017			7.00	-RA	70	64	66	81	9	35	29.79	29.98	16	OVC	045			10.00		69	57	62	66	7	06	30.09	30.28
19	OVC	022			10.00		69	63	65	81	8	35	29.80	29.98	19	OVC	040			10.00		67	57	61	70	6	07	30.07	30.26
22	OVC	130			10.00	-RA	68	63	65	84	0	00	29.83	30.02	22	OVC	045			10.00		66	54	59	65	6	06	30.10	30.29
SUNRISE: 0543 SEP 06						SUNSET: 1829						SUNRISE: 0548 SEP 12						SUNSET: 1820											
01	OVC	140			10.00	-RA	66	61	63	84	6	33	29.82	30.01	01	OVC	044			10.00		64	52	57	65	5	07	30.09	30.28
04	OVC	140			8.00	-RA	65	61	63	87	5	30	29.82	30.01	04	OVC	050			10.00		63	53	57	70	5	07	30.07	30.26
07	BKN	150			6.00	BR	66	62	64	87	0	00	29.85	30.04	07	OVC	050			10.00		63	54	58	73	5	02	30.10	30.29
10	BKN	250			10.00		73	61	66	66	0	00	29.86	30.05	10	BKN	060			10.00		68	51	59	55	6	06	30.10	30.29
13	BKN	250			10.00		78	62	68	58	6	21	29.84	30.03	13	OVC	035			10.00		71	54	61	55	8	01	30.06	30.25
16	SCT	065			10.00		80	63	69	56	6	VR	29.81	30.00	16	BKN	044			10.00		72	53	61	51	0	00	29.99	30.18
19	BKN	100			8.00		75	64	68	69	3	08	29.83	30.02	19	BKN	250			10.00		67	53	59	61	7	12	29.99	30.18
22	FEW	095			6.00	HZ	70	65	67	84	3	10	29.87	30.06	22	OVC	250			10.00		63	53	57	70	3	15	30.00	30.19

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
SEPTEMBER 2006 KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)				
			Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL				Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL			
			VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	STATION			SEA LEVEL	VISIBILITY (MILES)				DRY BULB	DEW POINT		WET BULB	STATION	SEA LEVEL							
SUNRISE: 0548 SEP 13						SUNSET: 1819						SUNRISE: 0553 SEP 19						SUNSET: 1810										
01	SCT	250				58	53	55	84	5	12	29.95	30.14	01	CLR	NC			5.00	HZ	69	64	66	84	6	17	29.64	29.83
04	OVC	250				59	54	56	84	6	12	29.91	30.10	04	CLR	NC			5.00	HZ	69	64	66	84	7	19	29.59	29.78
07	OVC	130				62	56	59	81	0	00	29.90	30.09	07	BKN	150			4.00	HZ	72	66	68	82	10	20	29.60	29.78
10	OVC	130				68	57	62	68	7	18	29.89	30.08	10	OVC	013			5.00	HZ	77	68	71	74	10	24	29.59	29.78
13	OVC	130			-RA	69	57	62	66	8	19	29.85	30.05	13	OVC	150			4.00	HZ	79	69	72	72	8	25	29.57	29.76
16	OVC	130			-RA	67	58	62	73	7	24	29.82	30.01	16	BKN	050			4.00	HZ	81	71	74	72	3	18	29.53	29.71
19	OVC	140				63	58	60	84	3	11	29.79	29.98	19	BKN	080			7.00		72	68	69	87	3	03	29.56	29.75
22	OVC	028			-RA	63	59	61	87	3	08	29.79	29.98	22	BKN	070			10.00		72	63	66	73	6	35	29.59	29.78
SUNRISE: 0549 SEP 14						SUNSET: 1817						SUNRISE: 0554 SEP 20						SUNSET: 1808										
01	BKN	033			RA BR	64	61	62	90	6	11	29.77	29.96	01	FEW	070			10.00		67	53	59	61	9	36	29.60	29.79
04	OVC	030			RA BR	66	63	64	90	5	17	29.74	29.93	04	CLR	NC			10.00		61	54	57	78	5	32	29.60	29.79
07	OVC	075			-RA	67	64	65	90	9	15	29.74	29.93	07	SCT	065			10.00		62	53	57	73	7	VR	29.65	29.84
10	OVC	018			-RA BR	71	67	68	87	8	12	29.75	29.94	10	BKN	150			10.00		71	52	60	51	9	04	29.69	29.88
13	OVC	025			-RA BR	71	67	68	87	5	30	29.73	29.92	13	OVC	060			10.00		71	51	60	49	9	35	29.68	29.87
16	OVC	040			-RA BR	72	68	69	87	8	35	29.72	29.91	16	BKN	150			10.00		71	48	58	44	8	36	29.69	29.88
19	OVC	035			-RA	69	65	66	87	3	33	29.75	29.94	19	BKN	060			10.00		63	48	55	58	8	36	29.76	29.95
22	SCT	070				67	63	65	87	3	05	29.76	29.96	22	BKN	060			10.00		59	48	53	67	5	31	29.83	30.02
SUNRISE: 0550 SEP 15						SUNSET: 1816						SUNRISE: 0555 SEP 21						SUNSET: 1806										
01	FEW	007			BR	64	61	62	90	5	01	29.77	29.96	01	CLR	NC			10.00		53	46	49	77	6	36	29.85	30.04
04	OVC	001			BR	63	60	61	90	3	36	29.77	29.96	04	CLR	NC			10.00		51	45	48	80	5	36	29.89	30.08
07	SCT	250			BR	63	59	61	87	6	36	29.81	30.00	07	FEW	250			10.00		53	45	49	74	8	36	29.94	30.13
10	FEW	021				75	62	67	64	10	36	29.83	30.02	10	FEW	250			10.00		65	43	54	45	7	01	30.00	30.19
13	BKN	032				77	61	67	58	13	36	29.81	30.00	13	SCT	055			10.00		71	43	56	37	6	06	29.96	30.15
16	SCT	040				79	61	68	54	14	01	29.81	30.00	16	SCT	250			10.00		70	43	56	38	6	VR	29.93	30.12
19	FEW	050				71	61	65	71	5	01	29.81	30.00	19	BKN	200			10.00		61	49	55	65	3	12	29.95	30.14
22	OVC	090				69	62	65	79	7	36	29.84	30.03	22	FEW	200			10.00		55	47	51	75	3	13	30.01	30.20
SUNRISE: 0551 SEP 16						SUNSET: 1814						SUNRISE: 0556 SEP 22						SUNSET: 1805										
01	BKN	050				68	63	65	84	8	36	29.84	30.03	01	FEW	250			10.00		53	47	50	80	3	13	30.01	30.20
04	OVC	039				69	64	66	84	11	01	29.84	30.03	04	BKN	250			10.00		52	47	49	83	0	00	30.00	30.19
07	OVC	036				68	64	66	87	10	01	29.88	30.07	07	BKN	250			10.00		54	49	51	83	0	00	30.04	30.23
10	OVC	032				73	61	66	66	11	36	29.91	30.10	10	BKN	250			10.00		67	46	56	47	10	19	30.05	30.24
13	OVC	040				74	62	67	66	11	33	29.89	30.08	13	OVC	250			10.00		72	49	59	44	8	16	30.00	30.20
16	OVC	040				72	65	68	79	11	02	29.87	30.06	16	OVC	250			10.00		73	52	61	48	8	16	29.97	30.16
19	BKN	070				70	65	67	84	7	35	29.87	30.06	19	OVC	200			10.00		68	56	61	66	7	18	29.93	30.13
22	BKN	070				69	65	66	87	6	01	29.90	30.09	22	SCT	250			10.00		65	57	60	75	7	17	29.92	30.11
SUNRISE: 0552 SEP 17						SUNSET: 1813						SUNRISE: 0557 SEP 23						SUNSET: 1803										
01	FEW	090			BR	67	63	65	87	3	02	29.86	30.04	01	BKN	250			10.00		66	57	61	73	8	17	29.89	30.08
04	SCT	090			BR	65	62	63	90	5	30	29.85	30.03	04	BKN	250			9.00		65	59	61	81	9	19	29.86	30.04
07	SCT	090			BR	66	62	64	87	7	33	29.88	30.06	07	OVC	250			6.00	HZ	69	63	65	81	11	18	29.85	30.04
10	SCT	022				76	64	68	67	9	33	29.89	30.08	10	OVC	200			9.00		78	67	71	69	15	22	29.85	30.03
13	SCT	050				82	62	69	51	3	VR	29.80	29.99	13	OVC	200			10.00		83	68	73	61	20	22	29.79	29.98
16	SCT	050				84	61	69	46	3	VR	29.75	29.94	16	BKN	150			10.00		83	70	74	65	10	21	29.72	29.91
19	SCT	045				75	66	69	74	0	00	29.76	29.95	19	BKN	200			10.00		79	70	73	74	11	20	29.72	29.91
22	CLR	NC				68	63	65	84	3	13	29.77	29.96	22	FEW	250			8.00		75	69	71	82	6	19	29.73	29.92
SUNRISE: 0553 SEP 18						SUNSET: 1811						SUNRISE: 0558 SEP 24						SUNSET: 1802										
01	CLR	NC				66	62	64	87	0	00	29.76	29.95	01	BKN	250			9.00		77	69	72	76	11	21	29.71	29.90
04	CLR	NC				63	59	61	87	3	15	29.75	29.93	04	BKN	250			10.00		76	69	71	79	15	21	29.66	29.84
07	SCT	250			BR	65	61	63	87	0	00	29.76	29.95	07	BKN	250			10.00		77	69	72	76	15	22	29.66	29.85
10	SCT	250				80	65	70	60	5	18	29.76	29.95	10	OVC	200			10.00		84	68	73	59	20	24	29.65	29.84
13	SCT	250				86	61	70	43	8	22	29.73	29.92	13	BKN	200			10.00		87	69	75	55	21	22	29.60	29.79
16	FEW	050				85	61	70	45	8	21	29.67	29.86	16	BKN	200			10.00		85	68	74	57	17	22	29.56	29.74
19	SCT	250				73	64	67	74	6	19	29.67	29.86	19	OVC	150			10.00		80	70	73	72	5	23	29.58	29.76
22	FEW	250			HZ	70	63	66	79	3	16	29.68	29.87	22	OVC	040			2.50	TS+RA BR	70	66	67	87	6	22	29.63	29.82

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

SEPTEMBER 2006 KRIC

WBAN # 13740

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		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0558 SEP 25 SUNSET: 1800														
01	OVC	150			10.00	-RA	70	66	67	87	8	27	29.64	29.83
04	FEW	100			10.00		68	61	64	78	5	31	29.69	29.88
07	BKN	250			10.00		66	61	63	84	3	01	29.73	29.92
10	BKN	090			10.00		71	57	63	61	0	00	29.77	29.96
13	OVC	250			10.00		74	56	63	54	6	31	29.74	29.93
16	BKN	070			10.00		74	55	63	52	7	27	29.72	29.91
19	CLR	NC			10.00		64	56	59	75	6	21	29.75	29.94
22	CLR	NC			10.00		64	56	59	75	6	26	29.79	29.98
SUNRISE: 0559 SEP 26 SUNSET: 1759														
01	CLR	NC			10.00		60	54	57	81	7	34	29.82	30.01
04	CLR	NC			10.00		56	52	54	87	3	32	29.82	30.01
07	CLR	NC			7.00		55	51	53	86	0	00	29.88	30.07
10	CLR	NC			10.00		71	49	59	46	0	00	29.90	30.09
13	SCT	070			10.00		75	46	59	36	5	21	29.86	30.05
16	SCT	070			10.00		77	46	60	33	6	23	29.82	30.01
19	FEW	070			10.00		65	56	60	73	0	00	29.84	30.03
22	FEW	065			10.00		61	53	57	75	0	00	29.86	30.05
SUNRISE: 0600 SEP 27 SUNSET: 1757														
01	CLR	NC			10.00		58	52	55	81	0	00	29.85	30.03
04	FEW	070			8.00		56	52	54	87	0	00	29.83	30.01
07	BKN	080		BR	5.00		58	54	56	87	0	00	29.84	30.04
10	SCT	100			10.00		72	58	64	62	6	20	29.85	30.04
13	BKN	055			10.00		74	52	61	46	3	VR	29.79	29.98
16	SCT	060			10.00		75	50	61	42	0	00	29.74	29.93
19	FEW	060			10.00		66	56	60	70	6	14	29.75	29.95
22	FEW	070			10.00		62	55	58	78	9	14	29.76	29.95
SUNRISE: 0601 SEP 28 SUNSET: 1756														
01	SCT	070			10.00		62	55	58	78	5	17	29.73	29.92
04	FEW	075			10.00		60	54	57	81	5	18	29.72	29.91
07	SCT	050			7.00		60	55	57	84	3	16	29.70	29.90
10	FEW	080			10.00		73	60	65	64	13	19	29.67	29.86
13	BKN	090			10.00		79	60	67	52	13	20	29.60	29.78
16	SCT	110			10.00		79	57	66	47	17	18	29.52	29.70
19	OVC	080			10.00	TS	66	55	60	68	26	36	29.52	29.71
22	OVC	020			4.00	+RA BR	60	56	58	87	10	18	29.63	29.82
SUNRISE: 0602 SEP 29 SUNSET: 1754														
01	OVC	022			10.00		61	56	58	84	7	27	29.59	29.78
04	OVC	035			10.00		60	55	57	84	7	30	29.60	29.79
07	BKN	080			10.00		58	52	55	81	7	33	29.69	29.88
10	FEW	040			10.00		66	48	56	52	7	VR	29.75	29.94
13	SCT	060			10.00		69	45	56	42	6	31	29.74	29.93
16	SCT	200			10.00		71	43	56	37	7	VR	29.77	29.96
19	SCT	200			10.00		60	49	54	67	0	00	29.83	30.03
22	FEW	200			10.00		54	48	51	80	0	00	29.88	30.07
SUNRISE: 0603 SEP 30 SUNSET: 1753														
01	FEW	250			10.00		52	47	49	83	0	00	29.89	30.09
04	FEW	250			10.00		50	46	48	86	0	00	29.91	30.10
07	SCT	250			10.00		51	46	49	83	0	00	29.95	30.14
10	BKN	250			10.00		65	50	57	59	7	20	29.98	30.17
13	BKN	250			10.00		72	47	58	41	13	18	29.91	30.11
16	BKN	250			10.00		72	50	60	46	13	19	29.88	30.08
19	BKN	200			10.00		63	52	57	68	6	13	29.88	30.07
22	FEW	100			10.00		58	52	55	81	6	19	29.89	30.08

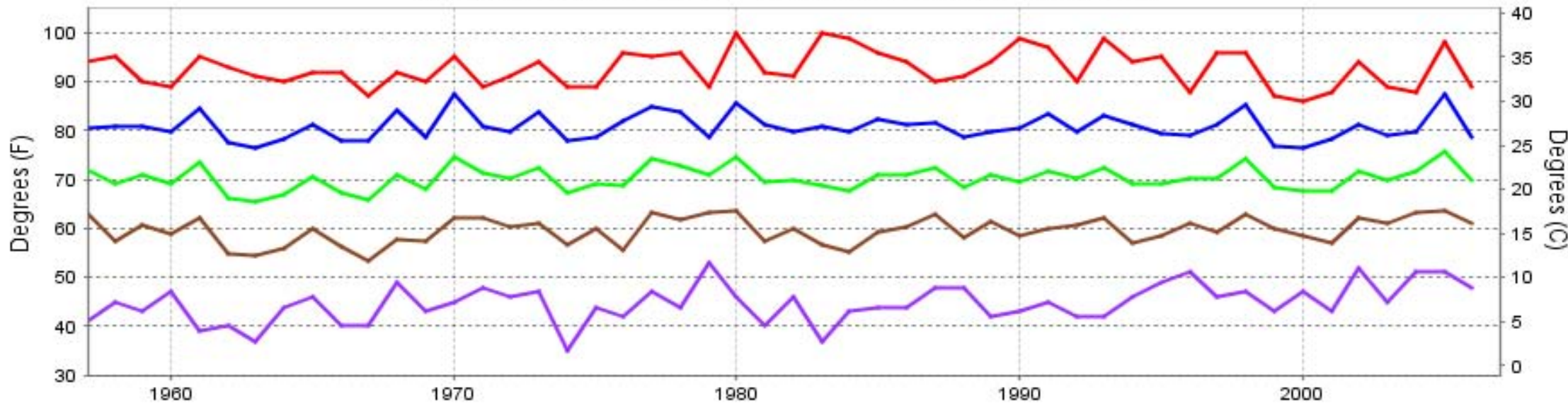
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

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			65	59	62	83	29.82	30.01	7.73	5	1	05	
02			64	59	61	84	29.81	30.00	7.53	6	1	01	
03			64	59	61	85	29.81	30.00	7.40	5	1	01	
04			63	59	61	86	29.81	30.00	6.96	5	1	33	
05			63	59	61	86	29.82	30.01	7.17	4	1	01	
06			63	59	61	85	29.83	30.02	6.50	5	1	34	
07			64	60	62	84	29.84	30.03	6.43	6	1	03	
08			67	60	63	79	29.84	30.03	7.02	7	1	36	
09			70	60	64	72	29.85	30.04	8.27	8	1	31	
10			73	60	65	65	29.85	30.04	8.32	8	1	32	
11			74	59	65	61	29.84	30.03	8.77	9	1	31	
12			75	59	66	58	29.83	30.02	8.90	9	1	30	
13			76	59	66	57	29.82	30.01	8.68	9	2	29	
14			77	59	66	55	29.80	29.99	9.03	9	2	29	
15			77	58	66	54	29.79	29.98	9.01	8	1	31	
16			77	59	66	56	29.79	29.98	9.02	8	1	32	
17			75	59	65	58	29.79	29.98	9.13	9	1	32	
18			73	60	65	64	29.79	29.98	9.03	7	2	07	
19			70	61	64	73	29.80	29.99	9.03	6	2	07	
20			68	60	64	76	29.82	30.01	8.67	6	2	07	
21			67	60	63	78	29.83	30.02	8.77	5	2	07	
22			66	60	63	80	29.83	30.02	8.22	5	2	07	
23			66	59	62	80	29.83	30.02	8.40	5	1	05	
24			65	59	62	82	29.82	30.01	8.20	5	1	04	

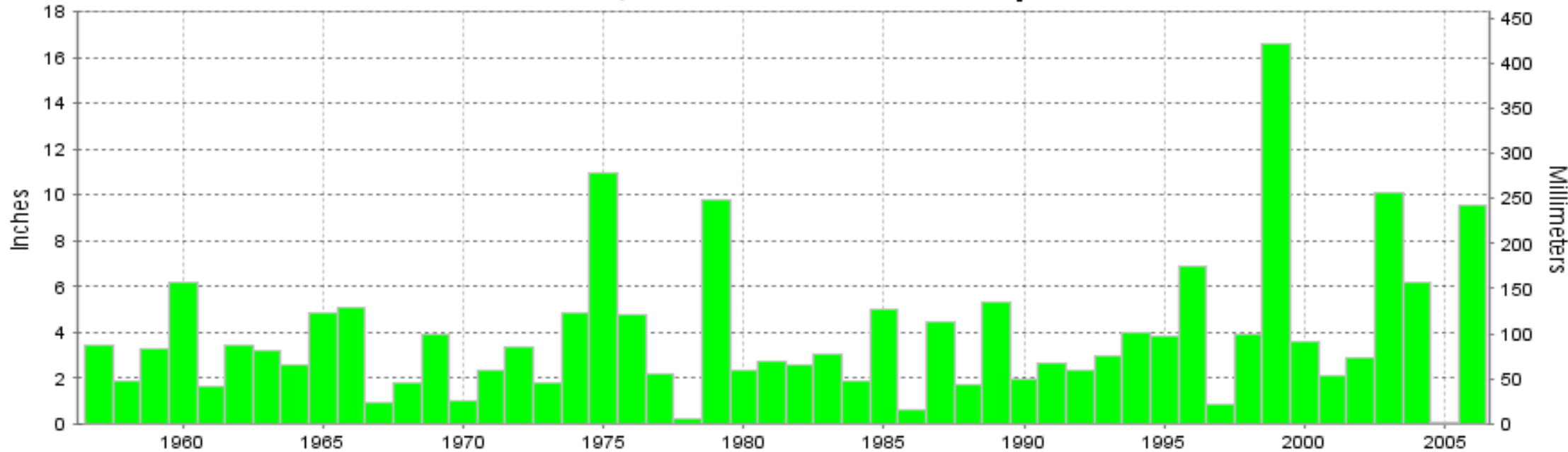
RICHMOND, VA SEPTEMBER Temperatures



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

Long-Term (1957-2006) Mean: 70.2
1971-2000 Normal: 69.8

RICHMOND, VA SEPTEMBER Precipitation



Long-Term (1957-2006) Mean Monthly Total: 3.87

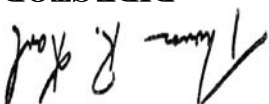
1971-2000 Normal: 3.98



SEPTEMBER 2006
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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