



AUGUST 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	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		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		0700 LST	1300 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	94	68	81	3	65	70	0	16	BR HZ			0.0	0.00	29.78	29.98	1.4	09	3.7	15	10	12	09	01	
02	93	69	81	3	64	70	0	16				0.0	0.00	29.85	30.04	5.3	18	5.8	18	15	13	14	02	
03	95	70	83	5	66	71	0	18	BR HZ			0.0	0.00	29.83	30.02	5.2	19	6.4	22	10	15	16	03	
04	95	72	84	7	68	73	0	19	TS RA HZ			0.0	T	29.79	29.97	1.1	21	1.9	21	30	16	30	04	
05	96	73	85	8	70	74	0	20	TS TSRA RA BR HZ			0.0	0.42	29.76	29.95	2.7	15	4.4	25	10	21	10	05	
06	96	71	84	7	70	74	0	19	BR HZ			0.0	0.00	29.70	29.88	3.9	28	5.3	17	31	14	32	06	
07	97	78	88	11	73	77	0	23	HZ			0.0	0.00	29.72	29.88	1.0	07	2.4	14	33	10	33	07	
08	104*	77	91*	14	71	77	0	26	BR HZ			0.0	0.00	29.65	29.83	4.7	29	6.5	24	32	17	32	08	
09	100	77	89	12	73	77	0	24	TS TSRA RA BR HZ			0.0	0.58	29.67	29.86	3.6	08	5.2	29	08	22	05	09	
10	94	72	83	6	73	75	0	18	TS TSRA RA BR HZ			0.0	0.70	29.63	29.81	2.8	01	5.3	41	35	30	36	10	
11	86	67	77	0	64	68	0	12				0.0	0.00	29.80	30.00	6.3	06	7.7	21	02	15	05	11	
12	89	64	77	0	61	67	0	12				0.0	0.00	29.88	30.06	1.7	15	3.5	17	12	13	12	12	
13	92	69	81	5	62	69	0	16				0.0	0.00	29.75	29.93	4.3	35	6.2	22	03	17	34	13	
14	88	67	78	2	56	64	0	13				0.0	0.00	29.78	29.97	3.4	04	6.1	17	04	13	05	14	
15	95	66	81	5	63	69	0	16				0.0	0.00	29.78	29.97	3.4	20	4.7	21	22	14	27	15	
16	100	71	86	10	70	74	0	21	TS TSRA RA BR HZ SQ			0.0	3.10	29.77	29.96	5.3	24	10.3	59*	30	36*	30	16	
17	93	71	82	6	69	73	0	17	TS TSRA RA BR			0.0	0.40	29.76	29.94	4.6	27	6.9	22	32	18	32	17	
18	83	64	74	-2	53	62	0	9				0.0	0.00	29.97	30.16	4.7	02	6.7	20	02	16	02	18	
19	89	62*	76	0	66	69	0	11	TS TSRA RA BR HZ			0.0	0.70	29.94	30.11	4.2	20	5.6	37	02	28	03	19	
20	78	69	74	-2	68	70	0	9	DZ BR HZ			0.0	0.01	29.88	30.07	5.0	06	5.8	17	06	14	02	20	
21	91	71	81	5	70	72	0	16	TS TSRA RA DZ FG BR HZ			0.0	0.66	29.87	30.06	1.5	04	4.1	41	30	32	30	21	
22	79	68	74*	-2	68	70	0	9	RA FG BR HZ			0.0	T	29.94	30.13	5.4	03	6.1	14	35	10	35	22	
23	81	70	76	0	69	71	0	11	BR HZ			0.0	0.00	29.95	30.14	2.5	10	3.3	12	13	10	13	23	
24	92	70	81	5	72	75	0	16	BR HZ			0.0	0.00	29.85	30.03	3.9	18	4.6	15	21	12	21	24	
25	96	75	86	10	73	76	0	21	BR HZ			0.0	0.00	29.73	29.92	5.2	20	6.9	24	32	21	33	25	
26	91	71	81	5	70	73	0	16	TS TSRA RA BR			0.0	0.24	29.77	29.97	1.7	05	4.2	28	16	22	15	26	
27	88	71	80	5	69	72	0	15				0.0	0.00	29.91	30.10	4.1	05	4.9	14	07	12	03	27	
28	87	69	78	3	68	71	0	13	FG+ BR			0.0	0.00	29.96	30.14	2.7	12	3.0	14	12	12	12	28	
29	85	69	77	2	65	68	0	12				0.0	0.00	29.93	30.11	2.9	14	3.0	13	14	9	14	29	
30	84	68	76	1	64	68	0	11	BR			0.0	0.00	29.81	29.99	1.2	13	2.0	12	08	8	16	30	
31	88	67	78	3	67	71	0	13	HZ			0.0	0.00	29.77	29.97	3.9	02	4.4	22	02	13	36	31	

90.9	69.9	80.4	☼	67.1	71.3	0.0	15.7	< MONTHLY AVERAGES TOTALS >				0.0	6.81	29.81	30.00	0.5	10	5.1	< MONTHLY AVERAGES			
5.2	3.1	4.1		-----DEPARTURE FROM NORMAL ----->								2.63	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 3.50 DATE : 16-17				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.22 19 0621			
SEASON TO DATE				GREATEST SNOW DEPTH :				MINIMUM : 29.75 10 1454			
TOTAL DEPARTURE		TOTAL DEPARTURE		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 18		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 9	
HEATING : 0 -1		0 -1		THUNDERSTORMS : 9		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8	
COOLING : 488 121		1451 243				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0	

**AUGUST 2007
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
AUGUST 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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	T	T	
05													05												05	0.42	0.42	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.58	0.58	
10	0.69	0.01											10												10	0.70	0.70	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	3.10	3.10	
17	0.26	0.01	0.10	0.03									17												17	0.40	0.40	
18													18												18	0.00	0.00	
19													19												19	0.70	0.70	
20													20												20	0.01	0.01	
21	T												21												21	0.66	0.66	
22	T												22												22	T	T	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.24	0.24	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
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)	0.36	0.58	0.78	0.92	1.12	1.34	1.51	1.59	1.62	1.65	2.18	2.62
Ending Date	10	10	16	16	16	16	16	16	16	16	16	16
Ending Time (Hr/Min)	0054	0055	2210	2214	2212	2216	2229	2235	2252	2324	2211	2217

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 AUGUST 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							2.50	10.00	
02							7.00	10.00	
03							6.00	10.00	
04							4.00	10.00	
05							2.50	5.00	
06							1.50	8.00	
07							3.00	5.00	
08							3.00	10.00	
09							4.00	10.00	
10							0.75	10.00	
11							8.00	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							10.00	10.00	
15							8.00	10.00	
16							1.50	9.00	
17							3.00	10.00	
18							10.00	10.00	
19							4.00	10.00	
20							1.75	8.00	
21							3.00	9.00	
22							0.75	6.00	
23							2.50	10.00	
24							5.00	10.00	
25							3.00	10.00	
26							2.50	10.00	
27							7.00	10.00	
28							0.12	10.00	
29							10.00	10.00	
30							6.00	10.00	
31							4.00	10.00	
MONTHLY AVGS							4.56	9.35	
SUNSHINE (Minutes)									
Total : 0					Possible : 25234				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
1			15				9		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

AUGUST 2007

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)																							
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT			WET BULB	STATION	SEA LEVEL																					
														Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	STATION	SEA LEVEL										
SUNRISE: 0513						AUG 01						SUNSET: 1918																						
01	CLR	NC			3.00	BR			73	69	70	87	0	00	29.77	29.96	01	CLR	NC			5.00	HZ			81	72	75	74	3	35	29.70	29.89	
04	CLR	NC			2.50	BR			70	68	69	93	0	00	29.75	29.94	04	BKN	250			4.00	HZ			80	72	75	77	0	00	29.70	29.88	
07	FEW	250			7.00				73	64	67	74	3	34	29.80	29.98	07	FEW	250			3.00	HZ			82	74	76	77	0	00	29.75	29.93	
10	FEW	250			10.00				87	63	71	45	7	03	29.81	30.00	10	SCT	250			4.00	HZ			91	72	78	54	0	00	29.76	29.94	
13	SCT	060			10.00				89	62	71	41	3	VR	29.80	29.99	13	BKN	250			5.00	HZ			95	70	77	44	8	31	29.72	29.91	
16	FEW	065			10.00				91	61	71	37	3	12	29.77	29.96	16	BKN	250			5.00	HZ			95	71	78	46	3	07	29.67	29.86	
19	FEW	070			10.00				85	65	72	51	5	16	29.78	29.96	19	OVC	250			4.00	HZ			89	75	79	63	5	14	29.68	29.87	
22	CLR	NC			10.00				76	66	70	71	7	15	29.82	30.01	22	BKN	250			4.00	HZ			84	75	78	74	7	16	29.70	29.88	
SUNRISE: 0514						AUG 02						SUNRISE: 0519						AUG 07						SUNSET: 1912										
01	SCT	075			10.00				76	65	69	69	3	19	29.84	30.02	01	CLR	NC			4.00	HZ			81	76	77	85	0	00	29.67	29.86	
04	BKN	150			9.00				72	65	68	79	0	00	29.85	30.03	04	FEW	250			3.00	BR			78	74	75	88	5	23	29.67	29.85	
07	SCT	150			7.00				75	67	70	76	0	00	29.87	30.06	07	CLR	NC			3.00	HZ			81	75	77	82	5	21	29.67	29.86	
10	FEW	065			10.00				86	67	73	53	5	20	29.88	30.07	10	CLR	NC			7.00				95	71	78	46	8	27	29.67	29.85	
13	SCT	065			10.00				93	64	74	38	9	15	29.87	30.05	13	SCT	250			9.00				102	68	78	33	13	30	29.63	29.81	
16	FEW	065			10.00				92	59	71	33	8	19	29.84	30.02	16	SCT	250			10.00				103	66	77	30	15	32	29.60	29.78	
19	CLR	NC			10.00				83	60	68	46	8	14	29.84	30.02	19	OVC	250			8.00				99	68	77	37	6	31	29.62	29.80	
22	CLR	NC			10.00				79	63	69	58	9	19	29.86	30.05	22	SCT	250			8.00				93	70	77	47	0	00	29.64	29.82	
SUNRISE: 0515						AUG 03						SUNRISE: 0520						AUG 08						SUNSET: 1911										
01	CLR	NC			10.00				74	66	69	76	7	20	29.86	30.05	01	BKN	250			8.00				86	73	77	65	0	00	29.65	29.83	
04	SCT	070			9.00				71	66	68	84	5	22	29.86	30.04	04	SCT	100			6.00	HZ			82	73	76	74	0	00	29.67	29.86	
07	FEW	070			6.00	HZ			74	68	70	82	5	VR	29.87	30.06	07	SCT	250			8.00				87	72	77	61	3	03	29.70	29.89	
10	SCT	070			10.00				88	63	72	43	6	VR	29.86	30.05	10	FEW	250			10.00				93	72	78	51	0	00	29.70	29.89	
13	BKN	250			10.00				93	65	74	40	9	19	29.83	30.01	13	BKN	250			10.00				98	72	79	43	6	07	29.67	29.85	
16	FEW	065			10.00				93	63	73	37	14	17	29.78	29.96	16	BKN	250			8.00				95	75	80	53	15	11	29.61	29.80	
19	SCT	250			10.00				85	66	72	53	8	14	29.80	29.98	19	OVC	250			4.00	TS BR			79	75	76	88	8	05	29.65	29.84	
22	SCT	250			10.00				79	67	71	67	0	00	29.81	30.00	22	OVC	065			4.00	BR			79	75	76	88	9	04	29.69	29.88	
SUNRISE: 0516						AUG 04						SUNRISE: 0521						AUG 09						SUNSET: 1910										
01	SCT	250			10.00				77	66	70	69	7	23	29.81	29.99	01					0.75									26	03		
04	FEW	250			9.00				73	66	69	79	0	00	29.80	29.98	04	SCT	003			10.00				72	72	72	100	5	22	29.62	29.80	
07	CLR	NC			8.00				76	68	71	76	5	22	29.82	30.00	07	SCT	200			10.00				76	72	73	87	3	24	29.63	29.82	
10	CLR	NC			7.00				89	67	74	48	0	00	29.82	30.01	10	OVC	013			2.00	HZ			81	75	77	82	0	00	29.65	29.83	
13	SCT	060			5.00	HZ			94	67	75	41	3	17	29.78	29.97	13	SCT	100			5.00	HZ			88	75	79	65	10	31	29.60	29.79	
16	BKN	060			5.00	HZ			93	67	75	43	0	00	29.75	29.93	16	SCT	200			8.00				94	74	80	52	6	36	29.57	29.76	
19	SCT	250			5.00	HZ			87	71	76	59	0	00	29.75	29.94	19	SCT	250			10.00				83	70	74	65	0	00	29.60	29.79	
22	SCT	250			5.00	HZ			80	71	74	74	0	00	29.78	29.97	22	SCT	250			10.00				79	71	74	77	5	36	29.64	29.83	
SUNRISE: 0516						AUG 05						SUNRISE: 0522						AUG 10						SUNSET: 1909										
01	BKN	250			4.00	HZ			78	72	74	82	0	00	29.77	29.96	01	OVC	250			8.00				78	72	74	82	13	06	29.69	29.88	
04	OVC	250			3.00	BR			76	72	73	87	3	19	29.76	29.95	04	BKN	095			10.00				73	68	70	84	6	04	29.72	29.91	
07	OVC	200			2.50	HZ			80	72	75	77	5	02	29.79	29.97	07	BKN	100			10.00				72	65	68	79	9	04	29.80	29.99	
10	OVC	200			5.00	HZ			89	67	74	48	0	00	29.79	29.98	10	SCT	020			10.00				77	64	69	64	8	02	29.83	30.02	
13	OVC	250			4.00	HZ			95	68	76	41	8	23	29.75	29.94	13	SCT	034			10.00				83	65	71	55	10	01	29.83	30.01	
16	OVC	250			4.00	HZ			93	66	75	41	0	00	29.71	29.90	16	SCT	100			10.00				85	59	69	41	10	10	29.82	30.01	
19	OVC	150			4.00	HZ			80	67	71	65	6	16	29.74	29.92	19	CLR	NC			10.00				78	59	66	52	5	10	29.86	30.05	
22	OVC	095			3.00	BR			74	71	72	90	7	14	29.76	29.94	22	CLR	NC			10.00				69	63	65	81	5	15	29.90	30.09	
SUNRISE: 0517						AUG 06						SUNRISE: 0522						AUG 11						SUNSET: 1908										
01	OVC	150			4.00	BR			74	70	71	87	6	18	29.75	29.93	01	CLR	NC			10.00				78	62	64	84	0	00	29.91	30.10	
04	BKN	150			4.00	BR			73	70	71	90	0	00	29.72	29.90	04	CLR	NC			10.00				68	63	65	84	3	30	29.92	30.11	
07	BKN	150			2.50	BR			74	71	72	90	7	24	29.73	29.92	07	FEW	100			10.00				69	63	65	81	0	00	29.94	30.13	
10	BKN	250			4.00	HZ			82	72	75	72	8	24	29.72	29.91	10	CLR	NC			10.00				81	57	66	44	0	00	29.93	30.12	
13	SCT	250			6.00	HZ			93	72	78	51	6	25	29.69	29.87	13	FEW	060			10.00				87	60	70	40	5	VR	29.88	30.07	
16	SCT	250			6.00	HZ			95	68	76	41	10	32	29.65	29.83	16	SCT	250			10.00				87	62	71	43	8	10	29.82	30.01	
19	SCT	250			6.00	HZ			90	69	76	50	6	31	29.65	29.83	19	FEW	065			10.00				80	63	69	56	5	15	29.81	30.00	
22	FEW	250			6.00	HZ			85	71	75	63	3	33	29.68	29.87	22	SCT	250			10.00				75								

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

AUGUST 2007

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																						
																												WEATHER	WEATHER																				
SUNRISE: 0523						AUG 13						SUNSET: 1906						SUNRISE: 0528						AUG 19						SUNSET: 1857																			
01	OVC	200			10.00	73	63	67	71	3	20	29.80	29.99	01	SCT	250			10.00	65	55	59	70	0	00	30.02	30.21	04	BKN	250			10.00	63	59	61	87	0	00	30.00	30.19								
04	FEW	100			10.00	70	62	65	76	3	23	29.77	29.95	07	CLR	NC			10.00	67	62	64	84	6	15	30.01	30.20	10	OVC	022			10.00	77	66	70	69	11	21	29.99	30.18								
07	CLR	NC			10.00	73	64	67	74	3	24	29.78	29.97	13	BKN	028			10.00	83	70	74	65	9	20	29.92	30.11	16	FEW	060			10.00	91	58	70	33	14	01	29.70	29.89								
10	CLR	NC			9.00	87	65	72	48	9	35	29.77	29.96	19	CLR	NC			10.00	83	59	68	44	5	01	29.69	29.88	22	CLR	NC			10.00	76	61	67	60	5	33	29.72	29.91								
13	SCT	050			8.00	90	65	73	44	11	35	29.74	29.92	SUNRISE: 0524						AUG 14						SUNSET: 1904						SUNRISE: 0529						AUG 20						SUNSET: 1855					
16	FEW	060			10.00	91	58	70	33	14	01	29.70	29.89	01	CLR	NC			10.00	71	57	63	61	8	36	29.76	29.94	04	CLR	NC			10.00	70	55	61	59	9	36	29.75	29.94								
19	CLR	NC			10.00	83	59	68	44	5	01	29.69	29.88	07	CLR	NC			10.00	72	57	63	59	6	03	29.79	29.98	10	SCT	250			10.00	80	54	64	41	7	09	29.83	30.02								
22	CLR	NC			10.00	76	61	67	60	5	33	29.72	29.91	13	BKN	250			10.00	85	55	67	36	9	31	29.81	30.00	16	BKN	250			10.00	85	54	66	35	9	10	29.75	29.94								
SUNRISE: 0525						AUG 15						SUNSET: 1903						SUNRISE: 0530						AUG 21						SUNSET: 1854																			
01	CLR	NC			10.00	68	59	63	73	7	17	29.79	29.98	01	OVC	012			10.00	72	69	70	90	7	09	29.86	30.05	04	CLR	NC			10.00	66	60	62	81	0	00	29.80	29.98								
04	CLR	NC			10.00	70	63	66	79	6	22	29.81	30.00	07	OVC	004			10.00	71	68	69	90	5	02	29.90	30.09	10	CLR	NC			10.00	83	67	72	59	7	24	29.80	29.99								
07	CLR	NC			10.00	92	56	69	30	6	20	29.78	29.97	13	BKN	017			10.00	78	70	73	77	7	VR	29.90	30.09	16	SCT	250			10.00	94	57	70	29	7	26	29.76	29.94								
10	CLR	NC			10.00	87	64	72	46	5	15	29.76	29.95	13	OVC	250			10.00	85	71	75	63	3	28	29.86	30.05	16	CLR	NC			10.00	94	57	70	29	7	26	29.76	29.94								
13	SCT	250			10.00	79	67	71	67	0	00	29.80	29.98	19	OVC	070			10.00	87	64	72	46	5	15	29.76	29.95	19	CLR	NC			10.00	87	64	72	46	5	15	29.76	29.95								
16	CLR	NC			10.00	79	67	71	67	0	00	29.80	29.98	22	SCT	250			9.00	71	69	70	90	5	18	29.87	30.06	22	SCT	250			9.00	79	67	71	67	0	00	29.80	29.98								
19	CLR	NC			10.00	78	70	73	77	9	21	29.77	29.96	SUNRISE: 0531						AUG 22						SUNSET: 1853																							
22	SCT	250			9.00	77	70	72	79	7	22	29.77	29.96	01	OVC	007			7.00	72	70	71	93	6	03	29.90	30.09	04	OVC	200			6.00	77	70	73	79	8	22	29.80	29.98								
SUNRISE: 0526						AUG 16						SUNSET: 1902						SUNRISE: 0531						AUG 22						SUNSET: 1853																			
01	BKN	200			7.00	89	71	76	55	6	22	29.80	29.98	04	OVC	002			6.00	68	66	67	93	7	02	29.94	30.13	07	OVC	002			4.00	70	67	68	90	3	VR	29.98	30.17								
04	OVC	200			6.00	93	71	78	49	8	18	29.76	29.95	10	OVC	003			6.00	70	67	68	90	3	VR	29.98	30.17	13	SCT	250			6.00	77	69	72	76	7	03	29.96	30.15								
07	BKN	250			4.00	99	66	76	34	10	24	29.70	29.89	16	BKN	020			6.00	78	69	72	74	3	06	29.91	30.10	19	OVC	200			6.00	75	69	71	82	8	03	29.93	30.12								
10	BKN	250			7.00	85	66	72	53	29	35	29.74	29.92	22	OVC	025			6.00	75	69	71	82	8	03	29.93	30.12	22	OVC	060			1.50	76	72	73	87	23	35	29.83	30.02								
13	SCT	250			6.00	76	72	73	87	23	35	29.83	30.02	SUNRISE: 0531						AUG 23						SUNSET: 1851																							
16	SCT	250			9.00	76	72	73	87	23	35	29.83	30.02	01	OVC	027			9.00	72	67	69	84	5	05	29.96	30.15	04	OVC	150			4.00	71	70	70	97	8	20	29.83	30.02								
19	OVC	200			6.00	71	70	70	97	9	20	29.78	29.97	04	OVC	007			7.00	71	67	68	87	5	06	29.95	30.14	07	SCT	150			4.00	71	70	70	97	8	25	29.80	29.98								
22	OVC	060			1.50	80	70	73	72	7	27	29.78	29.96	10	OVC	016			2.50	71	67	68	87	0	00	29.98	30.17	10	CLR	NC			10.00	80	70	73	72	7	27	29.78	29.96								
SUNRISE: 0527						AUG 17						SUNSET: 1859						SUNRISE: 0532						AUG 23						SUNSET: 1851																			
01	OVC	039			4.00	89	71	76	55	6	23	29.72	29.91	13	OVC	020			5.00	78	69	72	74	3	06	29.91	30.10	16	FEW	037			10.00	89	71	76	55	6	23	29.72	29.91								
04	OVC	150			4.00	93	68	76	44	11	29	29.69	29.87	19	OVC	025			5.00	80	70	73	72	6	10	29.91	30.10	16	SCT	045			10.00	93	68	76	44	11	29	29.69	29.87								
07	SCT	150			4.00	87	71	76	59	3	02	29.69	29.87	19	OVC	045			6.00	78	71	73	79	3	13	29.92	30.11	19	SCT	080			10.00	87	71	76	59	3	02	29.69	29.87								
10	CLR	NC			10.00	83	67	72	59	3	32	29.75	29.94	22	SCT	040			10.00	74	69	71	84	0	00	29.93	30.11	22	CLR	NC			10.00	83	67	72	59	3	32	29.75	29.94								
13	FEW	250			10.00	77	59	66	54	11	36	29.80	29.99	SUNRISE: 0533						AUG 24						SUNSET: 1850																							
16	BKN	200			10.00	72	58	64	62	3	34	29.86	30.04	01	OVC	150			9.00	72	69	70	90	5	16	29.91	30.10	04	OVC	150			10.00	71	68	69	90	0	00	29.89	30.08								
19	BKN	250			10.00	73	57	63	57	7	36	29.96	30.15	07	SCT	150			6.00	72	69	70	90	5	16	29.89	30.08	07	SCT	250			10.00	73	57	63	57	7	36	29.96	30.15								
22	FEW	200			10.00	78	54	64	44	13	01	30.02	30.20	10	BKN	250			10.00	82	73	76	74	6	19	29.88	30.07	10	FEW	250			10.00	78	54	64	44	13	01	30.02	30.20								
SUNRISE: 0527						AUG 18						SUNSET: 1858						SUNRISE: 0533						AUG 24						SUNSET: 1850																			
01	CLR	NC			10.00	82	50	63	33	3	02	30.02	30.21	13	BKN	250			8.00	89	73	78	59	7	18	29.84	30.03	13	BKN	250			10.00	82	50	63	33	3	02	30.02	30.21								
04	CLR	NC			10.00	83	46	62	27	8	01	30.01	30.20	16	BKN	250			8.00	91	72	78	54	3	23	29.80	29.98	16	BKN	250			10.00	83	46	62	27	8	01	30.01	30.20								
07	SCT	250			10.00	73	50	60	44	3	10	30.01	30.20	19	BKN	250			6.00	85	76	79	75	8	16	29.76	29.95	19	BKN	250			10.00	73	50	60	44	3	10	30.01	30.20								
10	FEW	250			10.00	66	51	58	59	5	12	30.01	30.20	22	FEW	250			6.00	80	74	76	82	5	14	29.80	29.98	22	FEW	200			10.00	66	51	58	59	5	12	30.01	30.20								

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

AUGUST 2007

KRIC

WBAN # 13740

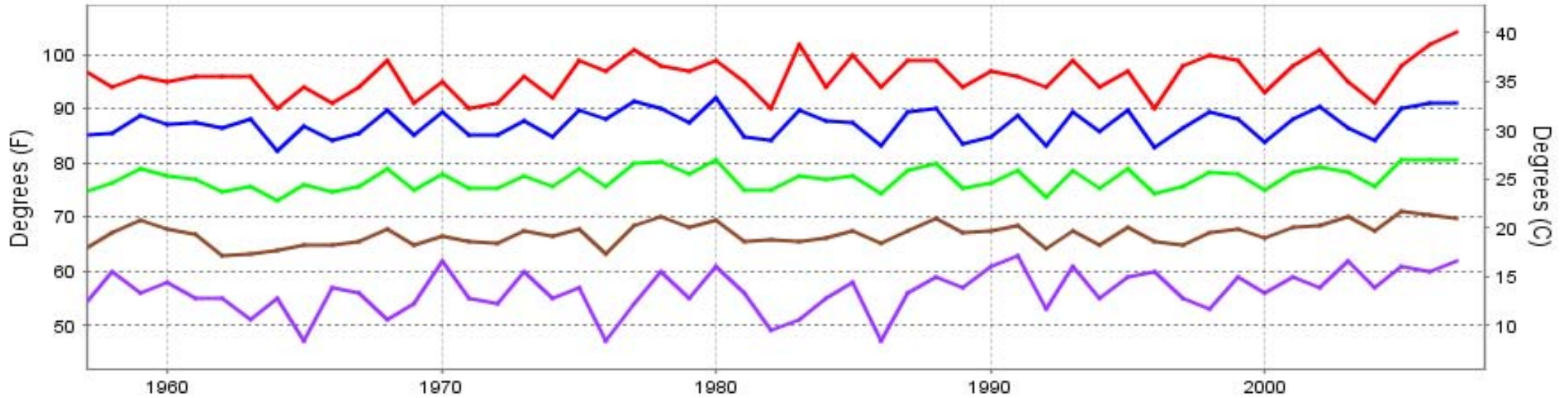
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Clد Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						
															Observation Time (LST)	Eff Clد Amt Oktas	VISIBILITY (MILES)	WEATHER	DRY BULB	DEW POINT
SUNRISE: 0533 AUG 25 SUNSET: 1849						01	FEW	250			6.00	HZ	78	73	75	85	6	20	29.79	29.97
04	CLR	NC			5.00	BR	76	72	73	87	5	21	29.76	29.95						
07	FEW	250			4.00	HZ	77	72	74	85	3	20	29.78	29.97						
10	CLR	NC			7.00		87	74	78	65	6	21	29.77	29.95						
13	FEW	045			8.00		94	74	80	52	10	22	29.72	29.91						
16	FEW	050			7.00		96	71	78	44	10	21	29.67	29.85						
19	SCT	200			8.00		88	74	78	63	8	17	29.66	29.85						
22	BKN	250			9.00		83	73	76	72	7	20	29.71	29.90						
SUNRISE: 0534 AUG 26 SUNSET: 1847						01	OVC	250			10.00		77	68	71	74	5	02	29.73	29.91
04	BKN	250			10.00		74	68	70	82	0	00	29.70	29.89						
07	BKN	250			9.00		76	70	72	82	0	00	29.76	29.95						
10	SCT	250			10.00		85	72	76	65	3	07	29.78	29.97						
13	BKN	150			10.00		88	72	77	59	6	10	29.77	29.95						
16	OVC	150			10.00	TS	85	71	75	63	6	03	29.76	29.95						
19	OVC	110			6.00	-RA BR	73	70	71	90	3	01	29.83	30.02						
22	SCT	110			9.00		72	69	70	90	5	35	29.85	30.03						
SUNRISE: 0535 AUG 27 SUNSET: 1846						01	BKN	150			8.00		72	69	70	90	5	33	29.87	30.05
04	BKN	150			8.00		72	68	69	87	5	03	29.87	30.06						
07	SCT	250			8.00		72	68	69	87	6	02	29.92	30.11						
10	SCT	250			10.00		79	69	72	72	6	06	29.96	30.15						
13	SCT	030			10.00		86	71	76	61	6	04	29.92	30.11						
16	SCT	085			10.00		85	69	74	59	0	00	29.90	30.09						
19	SCT	044			10.00		81	69	73	67	3	08	29.91	30.10						
22	CLR	NC			10.00		75	69	71	82	3	06	29.95	30.14						
SUNRISE: 0536 AUG 28 SUNSET: 1844						01	FEW	065			6.00	BR	73	69	70	87	3	11	29.96	30.14
04	CLR	NC			4.00	BR	70	68	69	93	0	00	29.96	30.14						
07	VV	001			0.25	FG	71	70	70	97	0	00	29.98	30.17						
10	SCT	250			10.00		82	68	73	63	3	13	29.98	30.16						
13	OVC	250			10.00		84	67	73	57	0	00	29.96	30.15						
16	SCT	250			10.00		85	68	74	57	5	09	29.92	30.11						
19	SCT	250			10.00		77	66	70	69	5	13	29.91	30.10						
22	CLR	NC			10.00		72	66	68	82	5	14	29.95	30.14						
SUNRISE: 0537 AUG 29 SUNSET: 1843						01	FEW	085			10.00		70	66	67	87	0	00	29.95	30.14
04	BKN	046			10.00		70	67	68	90	0	00	29.95	30.14						
07	BKN	200			10.00		71	67	68	87	0	00	29.96	30.15						
10	BKN	150			10.00		77	67	70	71	5	12	29.96	30.15						
13	BKN	150			10.00		83	64	71	53	8	16	29.93	30.12						
16	BKN	150			10.00		82	65	71	56	8	13	29.89	30.07						
19	CLR	NC			10.00		74	64	68	71	6	15	29.86	30.05						
22	CLR	NC			10.00		70	61	65	73	3	14	29.88	30.06						
SUNRISE: 0538 AUG 30 SUNSET: 1842						01	BKN	070			10.00		69	62	65	79	0	00	29.87	30.06
04	OVC	048			10.00		70	63	66	79	0	00	29.84	30.03						
07	OVC	047			10.00		72	63	66	73	3	28	29.85	30.03						
10	OVC	150			10.00		77	62	68	60	3	13	29.84	30.02						
13	BKN	250			10.00		82	64	70	55	0	00	29.80	29.99						
16	BKN	250			10.00		82	64	70	55	5	12	29.75	29.93						
19	BKN	250			9.00		77	67	70	71	5	12	29.73	29.92						
22	BKN	250			9.00		74	65	68	74	0	00	29.78	29.96						

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)		WIND SPEED (MPH)	DIRECTION		
							STATION	SEA LEVEL				
01			74	67	69	80	29.82	30.01	7.48	5	1	09
02			73	67	69	82	29.81	29.99	7.81	3	0	09
03			73	67	69	83	29.80	29.99	7.45	3	0	27
04			72	67	69	84	29.81	29.99	7.17	3	1	27
05			72	66	68	84	29.82	30.00	7.03	4	0	26
06			71	67	68	85	29.83	30.02	6.06	3	0	10
07			74	67	70	81	29.84	30.02	6.54	4	1	27
08			77	67	71	73	29.84	30.03	7.45	6	0	09
09			80	67	72	67	29.84	30.03	7.66	5	0	27
10			82	67	72	61	29.84	30.03	8.06	5	0	27
11			85	67	73	56	29.84	30.03	8.06	6	0	09
12			87	67	73	54	29.83	30.01	8.19	5	1	27
13			88	67	74	51	29.81	30.00	8.10	7	1	27
14			89	67	74	49	29.80	29.98	8.06	6	1	09
15			90	66	74	47	29.78	29.97	8.26	7	1	09
16			89	66	74	48	29.77	29.96	8.06	7	1	09
17			87	66	73	52	29.77	29.96	7.73	8	2	09
18			85	67	73	57	29.77	29.96	7.84	7	2	09
19			82	67	72	63	29.78	29.97	7.55	6	2	09
20			79	68	72	71	29.79	29.98	7.65	4	2	09
21			77	68	71	75	29.81	30.00	7.74	5	1	09
22			76	67	71	75	29.81	30.00	7.92	5	1	09
23			75	67	70	77	29.82	30.01	7.77	4	1	09
24			74	67	70	79	29.82	30.01	7.48	4	0	09

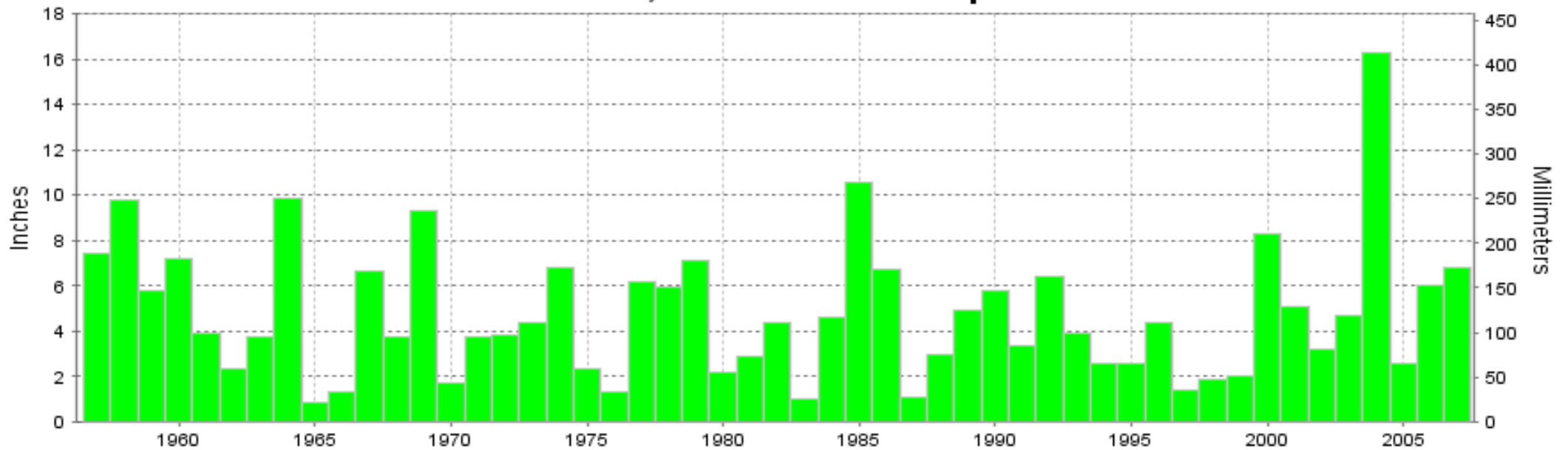
RICHMOND, VA AUGUST Temperatures



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

Long-Term (1957-2007) Mean: 77.0
1971-2000 Normal: 76.3

RICHMOND, VA AUGUST Precipitation



Long-Term (1957-2007) Mean Monthly Total: 4.77

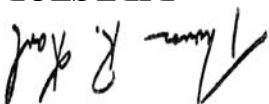
1971-2000 Normal: 4.18



**AUGUST 2007
RICHMOND, VA**

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

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