



MARCH 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 | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 01 | 60 | 38 | 49 | 6 | 36 | 44 | 16 | 0 | RA BR | | | 0.0 | 0.06 | 29.85 | 29.99 | 7.1 | 14 | 7.8 | 30 | 17 | 24 | 17 | 01 | |
| 02 | 67 | 41 | 54 | 11 | 33 | 49 | 11 | 0 | RA DZ BR | | | 0.0 | 0.42 | 29.36 | 29.56 | 11.7 | 23 | 16.6 | 39 | 17 | 31 | 25 | 02 | |
| 03 | 67 | 38 | 53 | 10 | 19 | 41 | 12 | 0 | | | | 0.0 | 0.00 | 29.50 | 29.69 | 10.0 | 24 | 12.9 | 44* | 23 | 33* | 23 | 03 | |
| 04 | 47 | 34 | 41 | -3 | 16 | 32 | 24 | 0 | | | | 0.0 | 0.00 | 29.73 | 29.95 | 12.2 | 30 | 12.8 | 29 | 29 | 24 | 30 | 04 | |
| 05 | 63 | 30 | 47 | 3 | 18 | 35 | 18 | 0 | | | | 0.0 | 0.00 | 29.82 | 30.01 | 12.2 | 27 | 15.1 | 35 | 31 | 29 | 27 | 05 | |
| 06 | 42 | 27 | 35* | -9 | 8 | 26 | 30 | 0 | | | | 0.0 | 0.00 | 30.16 | 30.39 | 8.7 | 02 | 10.2 | 24 | 01 | 20 | 02 | 06 | |
| 07 | 47 | 26 | 37 | -8 | 20 | 30 | 28 | 0 | | | | 0.0 | 0.00 | 30.06 | 30.24 | 4.3 | 07 | 7.1 | 22 | 04 | 18 | 03 | 07 | |
| 08 | 48 | 23* | 36 | -9 | 20 | 29 | 29 | 0 | | | | 0.0 | 0.00 | 30.12 | 30.32 | 4.2 | 04 | 6.0 | 17 | 06 | 13 | 07 | 08 | |
| 09 | 52 | 24 | 38 | -7 | 24 | 33 | 27 | 0 | | | | 0.0 | 0.00 | 30.24 | 30.43 | 4.2 | 14 | 6.2 | 17 | 13 | 15 | 18 | 09 | |
| 10 | 69 | 35 | 52 | 7 | 40 | 47 | 13 | 0 | | | | 0.0 | 0.00 | 30.07 | 30.24 | 8.9 | 19 | 9.2 | 24 | 19 | 21 | 19 | 10 | |
| 11 | 67 | 44 | 56 | 10 | 29 | 45 | 9 | 0 | | | | 0.0 | 0.00 | 30.04 | 30.26 | 7.4 | 36 | 9.6 | 21 | 36 | 17 | 01 | 11 | |
| 12 | 61 | 31 | 46 | 0 | 27 | 39 | 19 | 0 | | | | 0.0 | 0.00 | 30.15 | 30.33 | 2.7 | 15 | 3.6 | 14 | 15 | 12 | 14 | 12 | |
| 13 | 73 | 43 | 58 | 11 | 39 | 49 | 7 | 0 | | | | 0.0 | 0.00 | 30.01 | 30.18 | 6.5 | 19 | 7.1 | 18 | 21 | 16 | 21 | 13 | |
| 14 | 83 | 52 | 68 | 21 | 47 | 56 | 0 | 3 | | | | 0.0 | 0.00 | 29.86 | 30.04 | 9.4 | 21 | 10.0 | 28 | 22 | 22 | 25 | 14 | |
| 15 | 82 | 44 | 63 | 15 | 49 | 55 | 2 | 0 | RA BR SQ | | | 0.0 | 0.39 | 29.77 | 29.97 | 3.9 | 23 | 12.9 | 41 | 01 | 30 | 36 | 15 | |
| 16 | 44 | 33 | 39 | -9 | 37 | 39 | 26 | 0 | RA DZ BR | | | 0.0 | 1.61 | 29.73 | 29.89 | 11.6 | 01 | 12.9 | 29 | 01 | 23 | 01 | 16 | |
| 17 | 44 | 31 | 38 | -10 | 23 | 32 | 27 | 0 | | | | 0.0 | 0.00 | 29.69 | 29.89 | 11.0 | 31 | 11.5 | 31 | 30 | 25 | 31 | 17 | |
| 18 | 48 | 28 | 38 | -10 | 13 | 30 | 27 | 0 | | | | 0.0 | 0.00 | 29.98 | 30.21 | 9.9 | 30 | 10.9 | 33 | 27 | 24 | 28 | 18 | |
| 19 | 61 | 25 | 43 | -6 | 23 | 36 | 22 | 0 | | | | 0.0 | 0.00 | 30.16 | 30.35 | 11.7 | 20 | 12.0 | 33 | 22 | 26 | 22 | 19 | |
| 20 | 74 | 49 | 62 | 13 | 38 | 49 | 3 | 0 | | | | 0.0 | 0.00 | 30.13 | 30.35 | 2.0 | 18 | 9.9 | 26 | 21 | 22 | 21 | 20 | |
| 21 | 50 | 44 | 47 | -2 | 31 | 40 | 18 | 0 | RA | | | 0.0 | T | 30.44 | 30.63 | 6.9 | 09 | 7.7 | 20 | 09 | 16 | 09 | 21 | |
| 22 | 76 | 44 | 60 | 10 | 45 | 52 | 5 | 0 | | | | 0.0 | 0.00 | 30.17 | 30.33 | 10.7 | 21 | 11.0 | 30 | 20 | 25 | 20 | 22 | |
| 23 | 84 | 54 | 69 | 19 | 51 | 59 | 0 | 4 | | | | 0.0 | 0.00 | 29.98 | 30.17 | 5.5 | 21 | 9.6 | 24 | 03 | 22 | 03 | 23 | |
| 24 | 76 | 56 | 66 | 16 | 53 | 58 | 0 | 1 | BR HZ | | | 0.0 | 0.00 | 30.03 | 30.23 | 3.1 | 09 | 6.1 | 14 | 13 | 12 | 03 | 24 | |
| 25 | 68 | 43 | 56 | 5 | 44 | 50 | 9 | 0 | HZ | | | 0.0 | 0.00 | 30.20 | 30.39 | 6.7 | 07 | 9.4 | 26 | 14 | 22 | 14 | 25 | |
| 26 | 72 | 42 | 57 | 6 | 43 | 50 | 8 | 0 | | | | 0.0 | 0.00 | 30.16 | 30.34 | 7.9 | 20 | 8.5 | 24 | 20 | 21 | 20 | 26 | |
| 27 | 86* | 56 | 71* | 19 | 51 | 60 | 0 | 6 | | | | 0.0 | 0.00 | 29.92 | 30.11 | 5.2 | 27 | 7.1 | 25 | 31 | 18 | 32 | 27 | |
| 28 | 77 | 57 | 67 | 15 | 50 | 58 | 0 | 2 | RA | | | 0.0 | T | 30.00 | 30.00 | 5.2 | 08 | 6.0 | 20 | 06 | 16 | 11 | 28 | |
| 29 | 65 | 41 | 53 | 1 | 23 | 42 | 12 | 0 | RA | | | 0.0 | 0.02 | 30.21 | 30.42 | 7.2 | 04 | 7.6 | 23 | 04 | 18 | 04 | 29 | |
| 30 | 68 | 37 | 53 | 0 | 23 | 40 | 12 | 0 | | | | 0.0 | 0.00 | 30.17 | 30.34 | 0.8 | 19 | 3.4 | 14 | 21 | 10 | 22 | 30 | |
| 31 | 73 | 43 | 58 | 5 | 39 | 49 | 7 | 0 | RA BR | | | 0.0 | 0.16 | 29.96 | 30.15 | 3.2 | 10 | 4.9 | 17 | 11 | 14 | 10 | 31 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|---|------------------------------------|------|------|-----|--|--|----------------------------------|--|--|------|----------------------------------|--|--|----|------------------------------------|--------------------|--|--|---|--|--|--|
| 64.3 | 39.1 | 51.7 | ☼ | 32.6 | 43.7 | 13.6 | 0.5 | < MONTHLY AVERAGES TOTALS > | | | | 0.0 | 2.66 | 29.99 | 30.31 | 1.5 | 24 | 9.2 | < MONTHLY AVERAGES | | | | | | |
| 5.9 | 2.1 | 4.0 | | <-----DEPARTURE FROM NORMAL -----> | | | | | | | | | | -1.43 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | | |
| DEGREE DAYS | | | | | | | | GREATEST 24-HR PRECIPITATION : 1.96 DATE : 15-16 | | | | | | | | SEA LEVEL PRESSURE | | | | | | | | | |
| MONTHLY | | | | SEASON TO DATE | | | | GREATEST 24-HR SNOWFALL : 0.0 DATE : | | | | MAXIMUM : 30.69 DATE 21 TIME 1054 | | | | MINIMUM : 29.34 DATE 02 TIME 0554 | | | | | | | | | |
| TOTAL DEPARTURE | | | | TOTAL DEPARTURE | | | | GREATEST SNOW DEPTH : | | | | MINIMUM TEMP <= 32 : 9 | | | | PRECIPITATION >= 0.01 INCH: 6 | | | | | | | | | |
| HEATING : | | 421 | | -107 | | 2979 | | -598 | | NUMBER OF -> DAYS WITH | | | | MAXIMUM TEMP >= 90 : 0 | | | | MINIMUM TEMP <= 0 : 0 | | | | PRECIPITATION >= 0.10 INCH: 4 | | | |
| COOLING : | | 16 | | 8 | | 16 | | 7 | | THUNDERSTORMS : 0 | | | | HEAVY FOG : 0 | | | | SNOWFALL >= 1.0 INCH : 0 | | | | | | | |

**MARCH 2007
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MARCH 2007

WBAN # 13740

| Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | Sum of Hourly Data | 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 | 0.06 | 0.06 | |
| 02 | 0.02 | 0.04 | 0.13 | 0.07 | T | T | 0.11 | 0.05 | | | | | 02 | | | | | | | | | | | | 02 | 0.42 | 0.42 | |
| 03 | | | | | | | | | | | | | 03 | | | | | | | | | | | | 03 | 0.00 | 0.00 | |
| 04 | | | | | | | | | | | | | 04 | | | | | | | | | | | | 04 | 0.00 | 0.00 | |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | | | 05 | 0.00 | 0.00 | |
| 06 | | | | | | | | | | | | | 06 | | | | | | | | | | | | 06 | 0.00 | 0.00 | |
| 07 | | | | | | | | | | | | | 07 | | | | | | | | | | | | 07 | 0.00 | 0.00 | |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | | | | | 08 | 0.00 | 0.00 | |
| 09 | | | | | | | | | | | | | 09 | | | | | | | | | | | | 09 | 0.00 | 0.00 | |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | 10 | 0.00 | 0.00 | |
| 11 | | | | | | | | | | | | | 11 | | | | | | | | | | | | 11 | 0.00 | 0.00 | |
| 12 | | | | | | | | | | | | | 12 | | | | | | | | | | | | 12 | 0.00 | 0.00 | |
| 13 | | | | | | | | | | | | | 13 | | | | | | | | | | | | 13 | 0.00 | 0.00 | |
| 14 | | | | | | | | | | | | | 14 | | | | | | | | | | | | 14 | 0.00 | 0.00 | |
| 15 | | | | | | | | | | | | | 15 | | | | | T | 0.07 | 0.07 | T | 0.09 | 0.14 | 0.02 | 15 | 0.39 | 0.39 | |
| 16 | | | T | 0.11 | 0.04 | 0.03 | T | 0.01 | 0.01 | 0.10 | 0.14 | 0.13 | 16 | 0.20 | 0.18 | 0.19 | 0.11 | 0.28 | 0.04 | 0.04 | T | T | | | 16 | 1.61 | 1.61 | |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | 17 | 0.00 | 0.00 | |
| 18 | | | | | | | | | | | | | 18 | | | | | | | | | | | | 18 | 0.00 | 0.00 | |
| 19 | | | | | | | | | | | | | 19 | | | | | | | | | | | | 19 | 0.00 | 0.00 | |
| 20 | | | | | | | | | | | | | 20 | | | | | | | | | | | | 20 | 0.00 | 0.00 | |
| 21 | | | | | | | | | | | | T | 21 | | T | | | T | T | | | | | 21 | T | T | | |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 22 | 0.00 | 0.00 | |
| 23 | | | | | | | | | | | | | 23 | | | | | | | | | | | | 23 | 0.00 | 0.00 | |
| 24 | | | | | | | | | | | | | 24 | | | | | | | | | | | | 24 | 0.00 | 0.00 | |
| 25 | | | | | | | | | | | | | 25 | | | | | | | | | | | | 25 | 0.00 | 0.00 | |
| 26 | | | | | | | | | | | | | 26 | | | | | | | | | | | | 26 | 0.00 | 0.00 | |
| 27 | | | | | | | | | | | | | 27 | | | | | | | | | | | | 27 | 0.00 | 0.00 | |
| 28 | | | | | | | | | | | | | 28 | | | | | | | | T | T | T | T | 28 | T | T | |
| 29 | 0.01 | 0.01 | T | T | T | | | | | | | | 29 | | | | | | | | | | | | 29 | 0.02 | 0.02 | |
| 30 | | | | | | | | | | | | | 30 | | | | | | | | | | | | 30 | 0.00 | 0.00 | |
| 31 | | | | | | | | | | | | | 31 | | | | | | | | | | | | 31 | 0.16 | 0.16 | |

* 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) | | | | | | | | | | | | |
| Ending Date | | | | | | | | | | | | |
| Ending Time (Hr/Min) | | | | | | | | | | | | |

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 MARCH 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 | | | | | | | 7.00 | 10.00 | |
| 02 | | | | | | | 2.00 | 10.00 | |
| 03 | | | | | | | 10.00 | 10.00 | |
| 04 | | | | | | | 10.00 | 10.00 | |
| 05 | | | | | | | 10.00 | 10.00 | |
| 06 | | | | | | | 10.00 | 10.00 | |
| 07 | | | | | | | 10.00 | 10.00 | |
| 08 | | | | | | | 9.00 | 10.00 | |
| 09 | | | | | | | 10.00 | 10.00 | |
| 10 | | | | | | | 9.00 | 10.00 | |
| 11 | | | | | | | 10.00 | 10.00 | |
| 12 | | | | | | | 10.00 | 10.00 | |
| 13 | | | | | | | 10.00 | 10.00 | |
| 14 | | | | | | | 9.00 | 10.00 | |
| 15 | | | | | | | 3.00 | 10.00 | |
| 16 | | | | | | | 1.50 | 10.00 | |
| 17 | | | | | | | 10.00 | 10.00 | |
| 18 | | | | | | | 10.00 | 10.00 | |
| 19 | | | | | | | 10.00 | 10.00 | |
| 20 | | | | | | | 10.00 | 10.00 | |
| 21 | | | | | | | 10.00 | 10.00 | |
| 22 | | | | | | | 10.00 | 10.00 | |
| 23 | | | | | | | 8.00 | 10.00 | |
| 24 | | | | | | | 4.00 | 10.00 | |
| 25 | | | | | | | 6.00 | 10.00 | |
| 26 | | | | | | | 10.00 | 10.00 | |
| 27 | | | | | | | 7.00 | 10.00 | |
| 28 | | | | | | | 10.00 | 10.00 | |
| 29 | | | | | | | 7.00 | 10.00 | |
| 30 | | | | | | | 10.00 | 10.00 | |
| 31 | | | | | | | 3.00 | 10.00 | |
| MONTHLY AVGS | | | | | | | 8.24 | 10.00 | |
| SUNSHINE (Minutes) | | | | | | | | | |
| Total : 0 | | | | | Possible : 22283 | | | | |
| Percent Possible : 0 | | | | | | | | | |
| NUMBER OF DAYS WITH : SKY CONDITION | | | | | | | | | |
| Clear | | Partly CLDY | | | Cloudy | | | Missing | |
| MINIMUM VISIBILITY (MILES) | | | | | | | | | |
| <= .25 | | <= 3.0 | | | >= 7.0 | | | | |
| 0 | | 4 | | | 25 | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUNRISE: 0641 MAR 01 | | | | | | SUNSET: 1803 | | | | | | SUNRISE: 0632 MAR 07 | | | | | | SUNSET: 1809 | | | | | | | | | |
| 01 | OVC | 200 | | | 10.00 | 39 | 31 | 36 | 73 | 6 | 14 | 29.95 | 30.15 | 01 | OVC | 200 | | | 10.00 | 28 | 12 | 23 | 51 | 5 | 18 | 30.25 | 30.45 |
| 04 | OVC | 200 | | | 10.00 | 39 | 28 | 35 | 65 | 5 | 17 | 29.95 | 30.14 | 04 | OVC | 085 | | | 10.00 | 29 | 14 | 24 | 53 | 6 | 12 | 30.18 | 30.38 |
| 07 | BKN | 200 | | | 10.00 | 38 | 29 | 34 | 70 | 3 | 06 | 29.94 | 30.14 | 07 | OVC | 040 | | | 10.00 | 32 | 15 | 27 | 49 | 5 | 18 | 30.12 | 30.31 |
| 10 | BKN | 250 | | | 10.00 | 50 | 29 | 41 | 44 | 7 | 18 | 29.91 | 30.11 | 10 | OVC | 030 | | | 10.00 | 34 | 17 | 28 | 50 | 6 | 13 | 30.06 | 30.26 |
| 13 | OVC | 180 | | | 10.00 | 56 | 33 | 46 | 42 | 8 | 15 | 29.83 | 30.03 | 13 | OVC | 022 | | | 10.00 | 40 | 23 | 34 | 51 | 0 | 00 | 29.93 | 30.13 |
| 16 | OVC | 150 | | | 10.00 | 57 | 37 | 48 | 47 | 9 | 13 | 29.75 | 29.94 | 16 | OVC | 200 | | | 10.00 | 47 | 28 | 39 | 48 | 8 | 04 | 29.87 | 30.06 |
| 19 | OVC | 150 | | | 10.00 | 54 | 40 | 47 | 59 | 8 | 10 | 29.65 | 29.84 | 19 | OVC | 090 | | | 10.00 | 36 | 26 | 32 | 67 | 14 | 03 | 29.93 | 30.13 |
| 22 | OVC | 150 | | | 8.00 | 59 | 53 | 56 | 81 | 13 | 15 | 29.57 | 29.76 | 22 | OVC | 150 | | | 10.00 | 32 | 24 | 29 | 72 | 7 | 05 | 30.03 | 30.23 |
| SUNRISE: 0640 MAR 02 | | | | | | SUNSET: 1804 | | | | | | SUNRISE: 0631 MAR 08 | | | | | | SUNSET: 1810 | | | | | | | | | |
| 01 | OVC | 055 | | | 9.00 | 59 | 55 | 57 | 87 | 20 | 16 | 29.41 | 29.59 | 01 | SCT | 100 | | | 10.00 | 30 | 21 | 27 | 69 | 8 | 04 | 30.07 | 30.27 |
| 04 | OVC | 027 | | | 5.00 | 60 | 56 | 58 | 87 | 24 | 18 | 29.23 | 29.43 | 04 | CLR | NC | | | 10.00 | 25 | 19 | 23 | 78 | 6 | 01 | 30.08 | 30.28 |
| 07 | OVC | 060 | | | 2.00 | 63 | 60 | 61 | 90 | 16 | 20 | 29.17 | 29.36 | 07 | CLR | NC | | | 9.00 | 24 | 20 | 23 | 85 | 0 | 00 | 30.10 | 30.30 |
| 10 | BKN | 250 | | | 10.00 | 65 | 49 | 56 | 56 | 15 | 29 | 29.29 | 29.48 | 10 | SCT | 250 | | | 10.00 | 35 | 18 | 29 | 50 | 11 | 01 | 30.16 | 30.36 |
| 13 | SCT | 250 | | | 10.00 | 66 | 14 | 45 | 13 | 20 | 29 | 29.39 | 29.57 | 13 | SCT | 250 | | | 10.00 | 41 | 19 | 33 | 41 | 5 | 21 | 30.09 | 30.29 |
| 16 | SCT | 250 | | | 10.00 | 65 | 12 | 44 | 12 | 17 | 26 | 29.41 | 29.60 | 16 | SCT | 250 | | | 10.00 | 48 | 20 | 37 | 33 | 6 | 05 | 30.06 | 30.26 |
| 19 | FEW | 150 | | | 10.00 | 59 | 7 | 40 | 12 | 9 | 25 | 29.48 | 29.67 | 19 | FEW | 250 | | | 10.00 | 43 | 19 | 34 | 38 | 6 | 08 | 30.11 | 30.31 |
| 22 | BKN | 200 | | | 10.00 | 50 | 17 | 38 | 27 | 9 | 22 | 29.56 | 29.75 | 22 | CLR | NC | | | 10.00 | 35 | 22 | 30 | 59 | 10 | 10 | 30.22 | 30.42 |
| SUNRISE: 0638 MAR 03 | | | | | | SUNSET: 1805 | | | | | | SUNRISE: 0630 MAR 09 | | | | | | SUNSET: 1811 | | | | | | | | | |
| 01 | BKN | 200 | | | 10.00 | 44 | 22 | 36 | 42 | 6 | 20 | 29.56 | 29.76 | 01 | FEW | 250 | | | 10.00 | 31 | 19 | 27 | 61 | 0 | 00 | 30.23 | 30.43 |
| 04 | BKN | 200 | | | 10.00 | 43 | 24 | 36 | 47 | 8 | 20 | 29.54 | 29.73 | 04 | CLR | NC | | | 10.00 | 28 | 19 | 25 | 69 | 3 | 36 | 30.24 | 30.43 |
| 07 | SCT | 250 | | | 10.00 | 39 | 24 | 33 | 55 | 8 | 19 | 29.56 | 29.75 | 07 | FEW | 250 | | | 10.00 | 25 | 19 | 23 | 78 | 5 | 36 | 30.28 | 30.48 |
| 10 | SCT | 200 | | | 10.00 | 62 | 23 | 45 | 22 | 13 | 24 | 29.54 | 29.73 | 10 | SCT | 250 | | | 10.00 | 39 | 22 | 33 | 51 | 7 | VR | 30.32 | 30.52 |
| 13 | FEW | 200 | | | 10.00 | 65 | 18 | 46 | 16 | 26 | 25 | 29.44 | 29.63 | 13 | BKN | 250 | | | 10.00 | 48 | 23 | 38 | 37 | 7 | VR | 30.26 | 30.46 |
| 16 | SCT | 200 | | | 10.00 | 65 | 12 | 44 | 12 | 23 | 26 | 29.39 | 29.58 | 16 | SCT | 250 | | | 10.00 | 52 | 27 | 42 | 38 | 9 | 15 | 30.17 | 30.37 |
| 19 | FEW | 070 | | | 10.00 | 60 | 12 | 42 | 15 | 15 | 27 | 29.44 | 29.63 | 19 | SCT | 250 | | | 10.00 | 43 | 30 | 38 | 60 | 11 | 12 | 30.19 | 30.39 |
| 22 | BKN | 250 | | | 10.00 | 51 | 26 | 41 | 38 | 10 | 02 | 29.54 | 29.74 | 22 | SCT | 250 | | | 10.00 | 36 | 29 | 33 | 76 | 5 | 13 | 30.21 | 30.40 |
| SUNRISE: 0637 MAR 04 | | | | | | SUNSET: 1806 | | | | | | SUNRISE: 0628 MAR 10 | | | | | | SUNSET: 1811 | | | | | | | | | |
| 01 | BKN | 250 | | | 10.00 | 46 | 22 | 37 | 39 | 10 | 33 | 29.63 | 29.83 | 01 | FEW | 250 | | | 10.00 | 36 | 30 | 34 | 79 | 3 | 16 | 30.16 | 30.35 |
| 04 | FEW | 250 | | | 10.00 | 41 | 19 | 33 | 41 | 10 | 29 | 29.66 | 29.85 | 04 | OVC | 047 | | | 10.00 | 39 | 34 | 37 | 82 | 5 | 18 | 30.13 | 30.33 |
| 07 | FEW | 100 | | | 10.00 | 37 | 18 | 30 | 46 | 14 | 32 | 29.73 | 29.92 | 07 | SCT | 250 | | | 9.00 | 37 | 34 | 36 | 89 | 0 | 00 | 30.13 | 30.33 |
| 10 | FEW | 065 | | | 10.00 | 42 | 15 | 33 | 33 | 16 | 32 | 29.78 | 29.97 | 10 | SCT | 250 | | | 10.00 | 56 | 44 | 50 | 64 | 13 | 19 | 30.12 | 30.32 |
| 13 | BKN | 065 | | | 10.00 | 43 | 14 | 33 | 31 | 16 | 30 | 29.75 | 29.95 | 13 | BKN | 250 | | | 10.00 | 67 | 44 | 55 | 44 | 14 | 20 | 30.02 | 30.22 |
| 16 | FEW | 065 | | | 10.00 | 45 | 14 | 34 | 29 | 18 | 31 | 29.73 | 29.93 | 16 | OVC | 250 | | | 10.00 | 68 | 44 | 55 | 42 | 13 | 20 | 29.95 | 30.14 |
| 19 | CLR | NC | | | 10.00 | 40 | 13 | 31 | 33 | 8 | 31 | 29.80 | 30.00 | 19 | BKN | 250 | | | 10.00 | 59 | 43 | 51 | 56 | 10 | 18 | 29.97 | 30.16 |
| 22 | CLR | NC | | | 10.00 | 37 | 14 | 29 | 39 | 8 | 28 | 29.85 | 30.05 | 22 | BKN | 250 | | | 10.00 | 60 | 44 | 52 | 56 | 15 | 19 | 29.98 | 30.17 |
| SUNRISE: 0635 MAR 05 | | | | | | SUNSET: 1807 | | | | | | SUNRISE: 0627 MAR 11 | | | | | | SUNSET: 1812 | | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | 32 | 15 | 27 | 49 | 9 | 26 | 29.86 | 30.06 | 01 | BKN | 090 | | | 10.00 | 55 | 47 | 51 | 75 | 8 | 21 | 29.97 | 30.16 |
| 04 | CLR | NC | | | 10.00 | 31 | 14 | 26 | 49 | 8 | 26 | 29.85 | 30.04 | 04 | BKN | 080 | | | 10.00 | 51 | 46 | 49 | 83 | 8 | 36 | 29.98 | 30.17 |
| 07 | CLR | NC | | | 10.00 | 31 | 14 | 26 | 49 | 10 | 24 | 29.87 | 30.06 | 07 | OVC | 120 | | | 10.00 | 53 | 36 | 45 | 53 | 7 | 02 | 30.06 | 30.25 |
| 10 | FEW | 250 | | | 10.00 | 44 | 16 | 34 | 32 | 18 | 25 | 29.84 | 30.04 | 10 | FEW | 200 | | | 10.00 | 58 | 31 | 46 | 36 | 13 | 01 | 30.12 | 30.31 |
| 13 | FEW | 050 | | | 10.00 | 54 | 19 | 40 | 25 | 20 | 25 | 29.77 | 29.96 | 13 | CLR | NC | | | 10.00 | 63 | 22 | 46 | 21 | 7 | VR | 30.07 | 30.27 |
| 16 | BKN | 100 | | | 10.00 | 62 | 21 | 45 | 21 | 18 | 29 | 29.70 | 29.89 | 16 | CLR | NC | | | 10.00 | 66 | 16 | 46 | 14 | 9 | 36 | 30.04 | 30.24 |
| 19 | FEW | 100 | | | 10.00 | 54 | 22 | 41 | 29 | 20 | 31 | 29.79 | 29.98 | 19 | FEW | 250 | | | 10.00 | 57 | 17 | 41 | 21 | 6 | 02 | 30.08 | 30.28 |
| 22 | CLR | NC | | | 10.00 | 49 | 22 | 38 | 35 | 11 | 31 | 29.86 | 30.05 | 22 | SCT | 250 | | | 10.00 | 50 | 26 | 40 | 39 | 10 | 03 | 30.15 | 30.34 |
| SUNRISE: 0634 MAR 06 | | | | | | SUNSET: 1808 | | | | | | SUNRISE: 0625 MAR 12 | | | | | | SUNSET: 1813 | | | | | | | | | |
| 01 | FEW | 050 | | | 10.00 | 38 | 21 | 32 | 50 | 15 | 04 | 29.94 | 30.14 | 01 | CLR | NC | | | 10.00 | 45 | 26 | 37 | 47 | 5 | 06 | 30.20 | 30.40 |
| 04 | CLR | NC | | | 10.00 | 30 | 15 | 25 | 54 | 16 | 01 | 30.06 | 30.26 | 04 | CLR | NC | | | 10.00 | 36 | 27 | 33 | 70 | 0 | 00 | 30.18 | 30.37 |
| 07 | CLR | NC | | | 10.00 | 27 | 9 | 22 | 47 | 10 | 02 | 30.19 | 30.38 | 07 | FEW | 250 | | | 10.00 | 34 | 26 | 31 | 73 | 0 | 00 | 30.20 | 30.40 |
| 10 | CLR | NC | | | 10.00 | 32 | 5 | 25 | 32 | 13 | 01 | 30.28 | 30.47 | 10 | BKN | 250 | | | 10.00 | 50 | 26 | 40 | 39 | 0 | 00 | 30.21 | 30.40 |
| 13 | FEW | 250 | | | 10.00 | 37 | 3 | 27 | 24 | 11 | 33 | 30.26 | 30.46 | 13 | BKN | 250 | | | 10.00 | 58 | 23 | 43 | 26 | 0 | 00 | 30.14 | 30.33 |
| 16 | SCT | 250 | | | 10.00 | 40 | 3 | 29 | 21 | 0 | 00 | 30.22 | 30.42 | 16 | OVC | 250 | | | 10.00 | 59 | 23 | 44 | 25 | 10 | 19 | 30.05 | 30.25 |
| 19 | FEW | 250 | | | 10.00 | 34 | 4 | 26 | 28 | 8 | 07 | 30.24 | 30.44 | 19 | BKN | 250 | | | 10.00 | 49 | 29 | 41 | 46 | 8 | 13 | 30.06 | 30.26 |
| 22 | SCT | 250 | | | 10.00 | 29 | 4 | 22 | 34 | 5 | 11 | 30.27 | 30.47 | 22 | BKN | 250 | | | 10.00 | 45 | 30 | 39 | 56 | 7 | 13 | 30.08 | 30.28 |

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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 | | DRY BULB | DEW POINT | WET BULB | | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Observation Time (LST) | Eff Cld Amt Oktas | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION Tens of Deg | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION Tens of Deg | STATION |
| SUNRISE: 0624 MAR 13 | | | | | | SUNSET: 1814 | | | | | | SUNRISE: 0615 MAR 19 | | | | | | SUNSET: 1820 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | BKN | 120 | | | 10.00 | | | | | | | 01 | CLR | NC | | | | | | | | | 01 | CLR | NC | | | | 10.00 | | | | | | 29 | 18 | 25 | 63 | 0 | 00 | 30.19 | 30.39 |
| 04 | BKN | 110 | | | 10.00 | | | | | | | 04 | CLR | NC | | | | | | | | | 04 | CLR | NC | | | | 10.00 | | | | | | 26 | 20 | 24 | 78 | 3 | 20 | 30.22 | 30.42 |
| 07 | OVC | 250 | | | 10.00 | | | | | | | 07 | FEW | 250 | | | | | | | | | 07 | FEW | 250 | | | | 10.00 | | | | | | 29 | 19 | 26 | 66 | 0 | 00 | 30.27 | 30.47 |
| 10 | SCT | 100 | | | 10.00 | | | | | | | 10 | FEW | 250 | | | | | | | | | 10 | FEW | 250 | | | | 10.00 | | | | | | 46 | 16 | 35 | 30 | 17 | 18 | 30.25 | 30.45 |
| 13 | OVC | 250 | | | 10.00 | | | | | | | 13 | SCT | 250 | | | | | | | | | 13 | SCT | 250 | | | | 10.00 | | | | | | 56 | 20 | 42 | 25 | 17 | 23 | 30.16 | 30.36 |
| 16 | BKN | 250 | | | 10.00 | | | | | | | 16 | SCT | 200 | | | | | | | | | 16 | SCT | 200 | | | | 10.00 | | | | | | 60 | 24 | 45 | 25 | 17 | 22 | 30.06 | 30.26 |
| 19 | BKN | 250 | | | 10.00 | | | | | | | 19 | BKN | 250 | | | | | | | | | 19 | BKN | 250 | | | | 10.00 | | | | | | 55 | 28 | 43 | 36 | 13 | 19 | 30.05 | 30.25 |
| 22 | BKN | 250 | | | 10.00 | | | | | | | 22 | BKN | 250 | | | | | | | | | 22 | BKN | 250 | | | | 10.00 | | | | | | 55 | 31 | 44 | 40 | 17 | 20 | 30.05 | 30.24 |
| SUNRISE: 0622 MAR 14 | | | | | | SUNSET: 1815 | | | | | | SUNRISE: 0613 MAR 20 | | | | | | SUNSET: 1821 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | OVC | 250 | | | 10.00 | | | | | | | 01 | FEW | 095 | | | | | | | | | 01 | FEW | 095 | | | | 10.00 | | | | | | 54 | 34 | 45 | 47 | 17 | 21 | 30.04 | 30.23 |
| 04 | BKN | 250 | | | 10.00 | | | | | | | 04 | FEW | 095 | | | | | | | | | 04 | FEW | 095 | | | | 10.00 | | | | | | 52 | 37 | 45 | 57 | 11 | 22 | 30.03 | 30.22 |
| 07 | BKN | 250 | | | 10.00 | | | | | | | 07 | CLR | NC | | | | | | | | | 07 | CLR | NC | | | | 10.00 | | | | | | 52 | 38 | 45 | 59 | 13 | 22 | 30.08 | 30.28 |
| 10 | BKN | 250 | | | 10.00 | | | | | | | 10 | CLR | NC | | | | | | | | | 10 | CLR | NC | | | | 10.00 | | | | | | 63 | 42 | 52 | 46 | 5 | VR | 30.14 | 30.34 |
| 13 | BKN | 250 | | | 10.00 | | | | | | | 13 | SCT | 050 | | | | | | | | | 13 | SCT | 050 | | | | 10.00 | | | | | | 71 | 44 | 57 | 38 | 6 | 36 | 30.15 | 30.35 |
| 16 | BKN | 200 | | | 10.00 | | | | | | | 16 | BKN | 070 | | | | | | | | | 16 | BKN | 070 | | | | 10.00 | | | | | | 71 | 42 | 56 | 35 | 7 | 08 | 30.14 | 30.34 |
| 19 | SCT | 200 | | | 10.00 | | | | | | | 19 | SCT | 090 | | | | | | | | | 19 | SCT | 090 | | | | 10.00 | | | | | | 60 | 40 | 50 | 48 | 9 | 08 | 30.24 | 30.43 |
| 22 | BKN | 250 | | | 10.00 | | | | | | | 22 | SCT | 250 | | | | | | | | | 22 | SCT | 250 | | | | 10.00 | | | | | | 53 | 28 | 42 | 38 | 7 | 07 | 30.35 | 30.54 |
| SUNRISE: 0621 MAR 15 | | | | | | SUNSET: 1816 | | | | | | SUNRISE: 0612 MAR 21 | | | | | | SUNSET: 1822 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | FEW | 250 | | | 9.00 | | | | | | | 01 | BKN | 100 | | | | | | | | | 01 | BKN | 100 | | | | 10.00 | | | | | | 48 | 31 | 41 | 52 | 10 | 08 | 30.41 | 30.60 |
| 04 | CLR | NC | | | 9.00 | | | | | | | 04 | OVC | 060 | | | | | | | | | 04 | OVC | 060 | | | | 10.00 | | | | | | 45 | 28 | 38 | 51 | 14 | 08 | 30.43 | 30.62 |
| 07 | FEW | 250 | | | 8.00 | | | | | | | 07 | OVC | 039 | | | | | | | | | 07 | OVC | 039 | | | | 10.00 | | | | | | 44 | 24 | 36 | 45 | 8 | 07 | 30.47 | 30.67 |
| 10 | OVC | 250 | | | 10.00 | | | | | | | 10 | OVC | 039 | | | | | | | | | 10 | OVC | 039 | | | | 10.00 | | | | | | 45 | 26 | 38 | 47 | 11 | 07 | 30.49 | 30.68 |
| 13 | OVC | 250 | | | 10.00 | | | | | | | 13 | OVC | 037 | | | | | | | | | 13 | OVC | 037 | | | | 10.00 | | | | | | 46 | 30 | 39 | 54 | 6 | 07 | 30.48 | 30.67 |
| 16 | OVC | 250 | | | 10.00 | | | | | | | 16 | OVC | 033 | | | | | | | | | 16 | OVC | 033 | | | | 10.00 | | | | | | 47 | 34 | 41 | 61 | 6 | 09 | 30.42 | 30.62 |
| 19 | OVC | 075 | | | 4.00 | | | | | | | 19 | OVC | 025 | | | | | | | | | 19 | OVC | 025 | | | | 10.00 | | | | | | 47 | 36 | 42 | 66 | 6 | 13 | 30.40 | 30.60 |
| 22 | OVC | 018 | | | 3.00 | | | | | | | 22 | OVC | 019 | | | | | | | | | 22 | OVC | 019 | | | | 10.00 | | | | | | 45 | 36 | 41 | 71 | 3 | 13 | 30.38 | 30.58 |
| SUNRISE: 0619 MAR 16 | | | | | | SUNSET: 1817 | | | | | | SUNRISE: 0610 MAR 22 | | | | | | SUNSET: 1823 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | OVC | 010 | | | 10.00 | | | | | | | 01 | OVC | 015 | | | | | | | | | 01 | OVC | 015 | | | | 10.00 | | | | | | 46 | 36 | 42 | 68 | 3 | 14 | 30.31 | 30.51 |
| 04 | OVC | 011 | | | 2.50 | | | | | | | 04 | OVC | 012 | | | | | | | | | 04 | OVC | 012 | | | | 10.00 | | | | | | 46 | 37 | 42 | 71 | 3 | 18 | 30.26 | 30.46 |
| 07 | OVC | 015 | | | 1.50 | | | | | | | 07 | OVC | 015 | | | | | | | | | 07 | OVC | 015 | | | | 10.00 | | | | | | 45 | 38 | 42 | 77 | 5 | 19 | 30.27 | 30.46 |
| 10 | OVC | 015 | | | 2.00 | | | | | | | 10 | BKN | 014 | | | | | | | | | 10 | BKN | 014 | | | | 10.00 | | | | | | 57 | 45 | 51 | 64 | 13 | 22 | 30.24 | 30.43 |
| 13 | OVC | 014 | | | 3.00 | | | | | | | 13 | FEW | 050 | | | | | | | | | 13 | FEW | 050 | | | | 10.00 | | | | | | 72 | 52 | 61 | 50 | 16 | 23 | 30.10 | 30.30 |
| 16 | OVC | 015 | | | 3.00 | | | | | | | 16 | BKN | 200 | | | | | | | | | 16 | BKN | 200 | | | | 10.00 | | | | | | 75 | 50 | 61 | 42 | 18 | 21 | 30.00 | 30.20 |
| 19 | OVC | 012 | | | 10.00 | | | | | | | 19 | SCT | 250 | | | | | | | | | 19 | SCT | 250 | | | | 10.00 | | | | | | 69 | 49 | 58 | 49 | 11 | 21 | 30.02 | 30.21 |
| 22 | OVC | 070 | | | 10.00 | | | | | | | 22 | BKN | 250 | | | | | | | | | 22 | BKN | 250 | | | | 10.00 | | | | | | 65 | 51 | 57 | 61 | 13 | 20 | 30.02 | 30.22 |
| SUNRISE: 0618 MAR 17 | | | | | | SUNSET: 1818 | | | | | | SUNRISE: 0609 MAR 23 | | | | | | SUNSET: 1824 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | SCT | 090 | | | 10.00 | | | | | | | 01 | FEW | 110 | | | | | | | | | 01 | FEW | 110 | | | | 10.00 | | | | | | 61 | 52 | 56 | 72 | 10 | 21 | 30.01 | 30.20 |
| 04 | BKN | 100 | | | 10.00 | | | | | | | 04 | CLR | NC | | | | | | | | | 04 | CLR | NC | | | | 10.00 | | | | | | 59 | 52 | 55 | 78 | 9 | 21 | 29.99 | 30.18 |
| 07 | BKN | 041 | | | 10.00 | | | | | | | 07 | BKN | 200 | | | | | | | | | 07 | BKN | 200 | | | | 8.00 | | | | | | 57 | 52 | 54 | 83 | 7 | 20 | 30.01 | 30.20 |
| 10 | SCT | 050 | | | 10.00 | | | | | | | 10 | BKN | 200 | | | | | | | | | 10 | BKN | 200 | | | | 10.00 | | | | | | 72 | 53 | 61 | 51 | 9 | 21 | 30.03 | 30.22 |
| 13 | OVC | 140 | | | 10.00 | | | | | | | 13 | BKN | 200 | | | | | | | | | 13 | BKN | 200 | | | | 10.00 | | | | | | 80 | 51 | 63 | 37 | 6 | 23 | 29.97 | 30.16 |
| 16 | BKN | 060 | | | 10.00 | | | | | | | 16 | SCT | 200 | | | | | | | | | 16 | SCT | 200 | | | | 10.00 | | | | | | 82 | 48 | 62 | 31 | 10 | 22 | 29.91 | 30.10 |
| 19 | FEW | 060 | | | 10.00 | | | | | | | 19 | OVC | 200 | | | | | | | | | 19 | OVC | 200 | | | | 10.00 | | | | | | 71 | 50 | 59 | 48 | 9 | 19 | 29.93 | 30.13 |
| 22 | CLR | NC | | | 10.00 | | | | | | | 22 | BKN | 200 | | | | | | | | | 22 | BKN | 200 | | | | 10.00 | | | | | | 66 | 54 | 59 | 65 | 16 | 03 | 30.00 | 30.19 |
| SUNRISE: 0616 MAR 18 | | | | | | SUNSET: 1819 | | | | | | SUNRISE: 0607 MAR 24 | | | | | | SUNSET: 1824 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | | | | | | 01 | BKN | 200 | | | | | | | | | 01 | BKN | 200 | | | | 9.00 | | | | | | 62 | 54 | 58 | 75 | 6 | 08 | 30.01 | 30.20 |
| 04 | FEW | 100 | | | 10.00 | | | | | | | 04 | BKN | 200 | | | | | | | | | 04 | BKN | 200 | | | | 7.00 | | | | | | 58 | 53 | 55 | 84 | 10 | 03 | 30.01 | 30.20 |
| 07 | CLR | NC | | | 10.00 | | | | | | | 07 | BKN | 250 | | | | | | | | | 07 | BKN | 250 | | | | 4.00 | | | | | | 57 | 52 | 54 | 83 | 8 | 03 | 30.07 | 30.26 |
| 10 | FEW | 030 | | | 10.00 | | | | | | | 10 | OVC | 150 | | | | | | | | | 10 | OVC | 150 | | | | 6.00 | | | | | | 63 | 52 | 57 | 68 | 7 | 03 | 30.12 | 30.31 |
| 13 | SCT | 090 | | | 10.00 | | | | | | | 13 | BKN | 250 | | | | | | | | | 13 | BKN | 250 | | | | 10.00 | | | | | | | | | | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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 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: 0606 | | | | | | MAR 25 | | | | | | SUNSET: 1825 | | | | | |
| 01 | BKN | 250 | | | | 57 | 51 | 54 | 80 | 5 | 01 | 30.04 | 30.23 | | | | |
| 04 | SCT | 250 | | | | 54 | 50 | 52 | 86 | 8 | 02 | 30.06 | 30.25 | | | | |
| 07 | FEW | 250 | | | HZ | 54 | 49 | 51 | 83 | 7 | 05 | 30.16 | 30.35 | | | | |
| 10 | FEW | 250 | | | | 64 | 43 | 53 | 47 | 16 | 02 | 30.22 | 30.41 | | | | |
| 13 | SCT | 250 | | | | 67 | 42 | 54 | 40 | 10 | 06 | 30.21 | 30.41 | | | | |
| 16 | SCT | 250 | | | | 67 | 40 | 53 | 37 | 10 | 08 | 30.20 | 30.40 | | | | |
| 19 | BKN | 250 | | | | 51 | 40 | 46 | 66 | 14 | 13 | 30.27 | 30.46 | | | | |
| 22 | FEW | 110 | | | | 45 | 38 | 42 | 77 | 9 | 12 | 30.29 | 30.48 | | | | |
| SUNRISE: 0604 | | | | | | MAR 26 | | | | | | SUNSET: 1826 | | | | | |
| 01 | OVC | 015 | | | | 44 | 38 | 41 | 80 | 3 | 13 | 30.31 | 30.50 | | | | |
| 04 | BKN | 250 | | | | 43 | 38 | 41 | 83 | 0 | 00 | 30.27 | 30.46 | | | | |
| 07 | BKN | 250 | | | | 42 | 39 | 41 | 89 | 3 | 09 | 30.28 | 30.47 | | | | |
| 10 | OVC | 049 | | | | 50 | 41 | 46 | 71 | 7 | 19 | 30.26 | 30.46 | | | | |
| 13 | OVC | 250 | | | | 64 | 47 | 55 | 54 | 16 | 21 | 30.14 | 30.33 | | | | |
| 16 | OVC | 250 | | | | 71 | 46 | 57 | 41 | 17 | 20 | 30.03 | 30.22 | | | | |
| 19 | OVC | 250 | | | | 68 | 44 | 55 | 42 | 14 | 21 | 30.01 | 30.20 | | | | |
| 22 | OVC | 250 | | | | 64 | 49 | 56 | 58 | 10 | 20 | 29.99 | 30.18 | | | | |
| SUNRISE: 0603 | | | | | | MAR 27 | | | | | | SUNSET: 1827 | | | | | |
| 01 | OVC | 250 | | | | 60 | 50 | 55 | 70 | 9 | 20 | 29.96 | 30.15 | | | | |
| 04 | BKN | 250 | | | | 56 | 50 | 53 | 80 | 7 | 21 | 29.93 | 30.12 | | | | |
| 07 | BKN | 250 | | | | 62 | 55 | 58 | 78 | 6 | 23 | 29.94 | 30.13 | | | | |
| 10 | OVC | 250 | | | | 74 | 56 | 63 | 54 | 9 | 27 | 29.94 | 30.13 | | | | |
| 13 | BKN | 250 | | | | 83 | 49 | 63 | 31 | 10 | 33 | 29.90 | 30.09 | | | | |
| 16 | BKN | 250 | | | | 85 | 49 | 64 | 29 | 16 | 27 | 29.87 | 30.06 | | | | |
| 19 | BKN | 250 | | | | 78 | 49 | 61 | 36 | 3 | 30 | 29.89 | 30.09 | | | | |
| 22 | SCT | 250 | | | | 66 | 51 | 58 | 59 | 5 | 02 | 29.92 | 30.11 | | | | |
| SUNRISE: 0601 | | | | | | MAR 28 | | | | | | SUNSET: 1828 | | | | | |
| 01 | OVC | 250 | | | | 62 | 51 | 56 | 67 | 0 | 00 | 29.93 | 30.11 | | | | |
| 04 | SCT | 250 | | | | 64 | 52 | 57 | 65 | 0 | 00 | 29.90 | 30.09 | | | | |
| 07 | SCT | 250 | | | | 60 | 52 | 56 | 75 | 0 | 00 | 29.95 | 30.14 | | | | |
| 10 | BKN | 250 | | | | 72 | 51 | 60 | 48 | 6 | 08 | 29.99 | | | | | |
| 13 | BKN | 250 | | | | 76 | 49 | 61 | 39 | 10 | 10 | 29.99 | | | | | |
| 16 | OVC | 250 | | | | 76 | 50 | 61 | 40 | 11 | 10 | 29.96 | | | | | |
| 19 | OVC | 200 | | | | 67 | 49 | 57 | 53 | 7 | 10 | 30.04 | | | | | |
| 22 | OVC | 047 | | | -RA | 60 | 52 | 56 | 75 | 3 | 15 | 30.12 | 30.31 | | | | |
| SUNRISE: 0560 | | | | | | MAR 29 | | | | | | SUNSET: 1829 | | | | | |
| 01 | OVC | 055 | | | -RA | 53 | 48 | 50 | 83 | 3 | 04 | 30.16 | 30.35 | | | | |
| 04 | OVC | 085 | | | -RA | 52 | 38 | 46 | 59 | 8 | 05 | 30.17 | 30.36 | | | | |
| 07 | OVC | 200 | | | | 50 | 25 | 40 | 38 | 11 | 04 | 30.25 | 30.44 | | | | |
| 10 | BKN | 250 | | | | 57 | 21 | 42 | 25 | 13 | 05 | 30.30 | 30.49 | | | | |
| 13 | BKN | 250 | | | | 62 | 12 | 43 | 14 | 14 | 05 | 30.25 | 30.45 | | | | |
| 16 | SCT | 250 | | | | 65 | 11 | 44 | 12 | 9 | 05 | 30.18 | 30.38 | | | | |
| 19 | FEW | 250 | | | | 57 | 12 | 40 | 17 | 5 | 06 | 30.20 | 30.40 | | | | |
| 22 | FEW | 250 | | | | 49 | 19 | 38 | 30 | 5 | 07 | 30.24 | 30.44 | | | | |
| SUNRISE: 0558 | | | | | | MAR 30 | | | | | | SUNSET: 1830 | | | | | |
| 01 | CLR | NC | | | | 39 | 24 | 33 | 55 | 0 | 00 | 30.25 | 30.45 | | | | |
| 04 | CLR | NC | | | | 39 | 27 | 34 | 62 | 6 | 03 | 30.23 | 30.42 | | | | |
| 07 | FEW | 250 | | | | 40 | 27 | 35 | 60 | 5 | 36 | 30.26 | 30.45 | | | | |
| 10 | FEW | 250 | | | | 54 | 17 | 40 | 23 | 0 | 00 | 30.26 | 30.45 | | | | |
| 13 | CLR | NC | | | | 62 | 14 | 43 | 15 | 0 | 00 | 30.16 | 30.35 | | | | |
| 16 | FEW | 250 | | | | 67 | 15 | 46 | 13 | 5 | 28 | 30.05 | 30.24 | | | | |
| 19 | FEW | 250 | | | | 56 | 26 | 43 | 32 | 7 | 21 | 30.01 | 30.21 | | | | |
| 22 | CLR | NC | | | | 54 | 27 | 43 | 35 | 0 | 00 | 30.03 | 30.22 | | | | |

| 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: 0557 | | | | | | MAR 31 | | | | | | SUNSET: 1831 | | | | | |
| 01 | SCT | 250 | | | | 51 | 28 | 41 | 41 | 0 | 00 | 30.00 | 30.19 | | | | |
| 04 | SCT | 250 | | | | 47 | 32 | 41 | 56 | 5 | 15 | 29.95 | 30.15 | | | | |
| 07 | BKN | 250 | | | | 47 | 35 | 42 | 63 | 3 | 18 | 29.97 | 30.16 | | | | |
| 10 | SCT | 250 | | | | 62 | 39 | 51 | 43 | 0 | 00 | 29.96 | 30.15 | | | | |
| 13 | BKN | 150 | | | | 71 | 43 | 56 | 37 | 5 | VR | 29.93 | 30.13 | | | | |
| 16 | OVC | 200 | | | | 71 | 44 | 57 | 38 | 3 | 36 | 29.91 | 30.10 | | | | |
| 19 | OVC | 200 | | | | 60 | 44 | 52 | 56 | 9 | 08 | 29.96 | 30.15 | | | | |
| 22 | OVC | 085 | | | | 55 | 43 | 49 | 64 | 9 | 10 | 29.97 | 30.16 | | | | |

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.

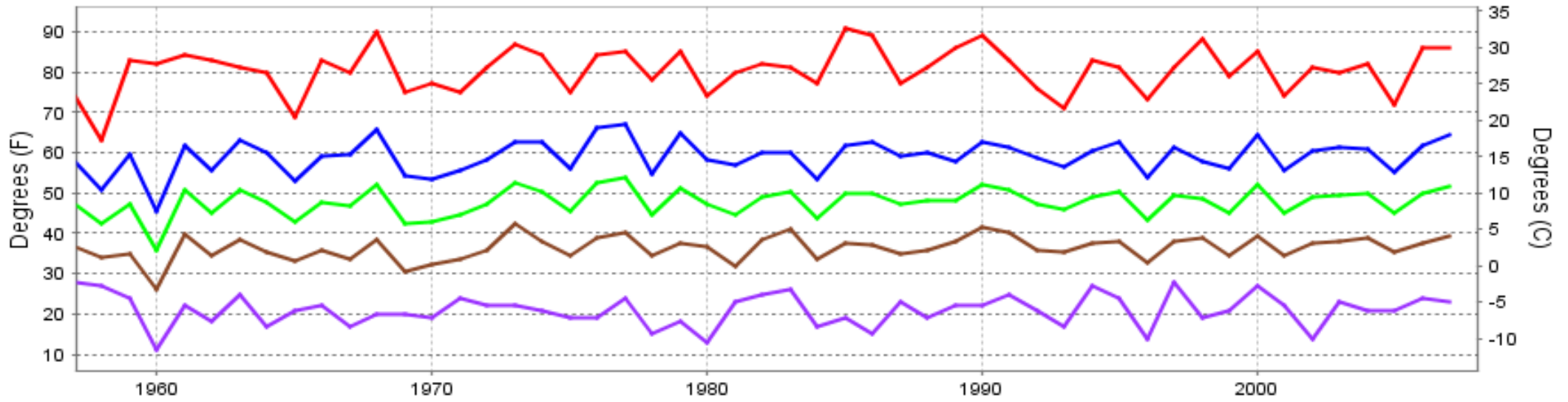
& = Original observation contained additional weather elements.

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 | | | 46 | 34 | 41 | 64 | 30.00 | 30.19 | 9.90 | 7 | 2 | 17 |
| 02 | | | 45 | 34 | 40 | 66 | 29.99 | 30.19 | 9.65 | 7 | 2 | 17 |
| 03 | | | 44 | 34 | 40 | 68 | 29.99 | 30.18 | 9.52 | 6 | 2 | 18 |
| 04 | | | 44 | 34 | 40 | 68 | 29.98 | 30.18 | 9.40 | 8 | 2 | 19 |
| 05 | | | 43 | 33 | 39 | 68 | 29.99 | 30.18 | 9.61 | 7 | 2 | 18 |
| 06 | | | 43 | 33 | 39 | 68 | 30.00 | 30.20 | 9.52 | 7 | 2 | 19 |
| 07 | | | 43 | 33 | 39 | 68 | 30.01 | 30.21 | 8.85 | 7 | 2 | 20 |
| 08 | | | 47 | 34 | 41 | 62 | 30.03 | 30.22 | 9.45 | 8 | 2 | 20 |
| 09 | | | 51 | 34 | 44 | 53 | 30.03 | 30.23 | 9.55 | 10 | 2 | 22 |
| 10 | | | 54 | 33 | 45 | 47 | 30.03 | 30.23 | 9.61 | 10 | 3 | 23 |
| 11 | | | 56 | 32 | 46 | 43 | 30.02 | 30.21 | 9.61 | 10 | 4 | 24 |
| 12 | | | 59 | 32 | 47 | 39 | 30.00 | 30.19 | 9.74 | 11 | 3 | 24 |
| 13 | | | 61 | 31 | 47 | 36 | 29.98 | 30.17 | 9.77 | 11 | 7 | 25 |
| 14 | | | 62 | 31 | 48 | 34 | 29.95 | 30.14 | 9.77 | 13 | 6 | 25 |
| 15 | | | 63 | 31 | 48 | 33 | 29.94 | 30.13 | 9.77 | 12 | 6 | 25 |
| 16 | | | 63 | 31 | 48 | 34 | 29.93 | 30.12 | 9.77 | 12 | 4 | 25 |
| 17 | | | 61 | 31 | 48 | 35 | 29.93 | 30.12 | 9.77 | 12 | 3 | 24 |
| 18 | | | 58 | 32 | 47 | 40 | 29.94 | 30.14 | 9.77 | 12 | 2 | 20 |
| 19 | | | 55 | 32 | 45 | 46 | 29.96 | 30.15 | 9.81 | 10 | 2 | 16 |
| 20 | | | 53 | 32 | 44 | 49 | 29.98 | 30.17 | 9.87 | 9 | 2 | 16 |
| 21 | | | 51 | 33 | 43 | 52 | 29.99 | 30.18 | 10.00 | 8 | 2 | 14 |
| 22 | | | 50 | 34 | 43 | 56 | 30.00 | 30.19 | 9.71 | 9 | 2 | 14 |
| 23 | | | 48 | 34 | 43 | 60 | 30.01 | 30.20 | 9.71 | 8 | 2 | 16 |
| 24 | | | 47 | 34 | 42 | 62 | 30.00 | 30.19 | 9.77 | 8 | 2 | 16 |

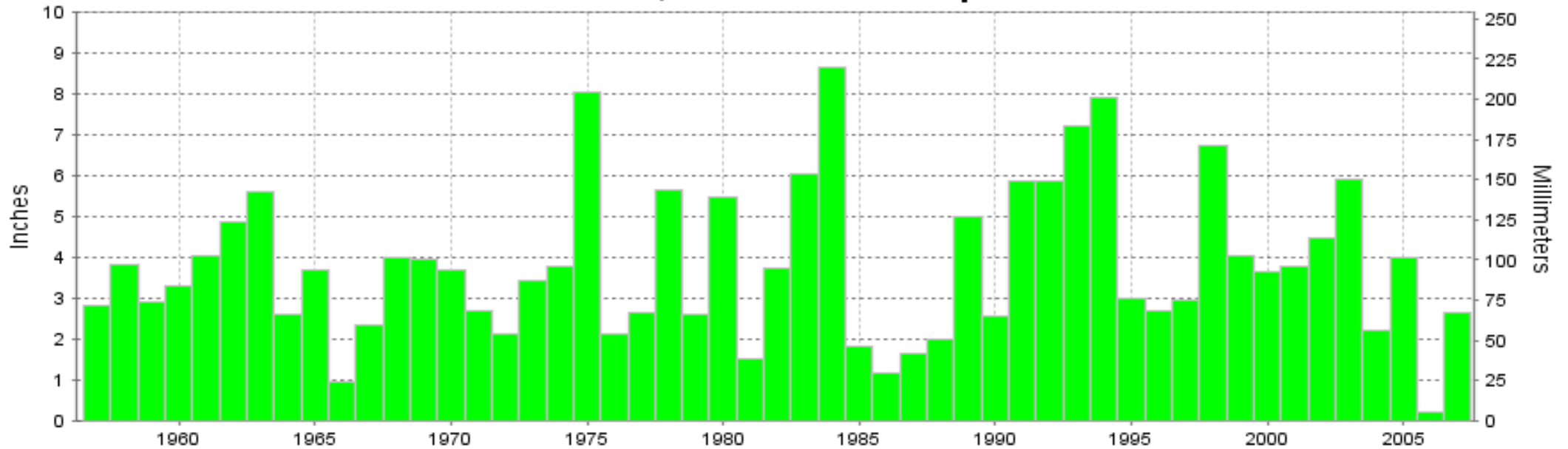
RICHMOND, VA MARCH Temperatures



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

Long-Term (1957-2007) Mean: 47.7
1971-2000 Normal: 47.7

RICHMOND, VA MARCH Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.81

1971-2000 Normal: 4.09



MARCH 2007
RICHMOND, VA

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