



JUNE 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 | 88 | 65 | 77 | 7 | 60 | 66 | 0 | 12 | | | | 0.0 | 0.00 | 29.90 | 30.07 | 6.5 | 21 | 7.2 | 18 | 21 | 14 | 21 | 01 | |
| 02 | 85 | 65 | 75 | 5 | 62 | 67 | 0 | 10 | | | | 0.0 | 0.00 | 29.78 | 29.97 | 7.9 | 20 | 8.1 | 17 | 19 | 14 | 20 | 02 | |
| 03 | 75 | 66 | 71 | 1 | 67 | 68 | 0 | 6 | TSRA RA DZ BR | | | 0.0 | 1.02 | 29.44 | 29.58 | 5.8 | 07 | 6.8 | 26 | 06 | 18 | 07 | 03 | |
| 04 | 87 | 67 | 77 | 7 | 62 | 67 | 0 | 12 | TS TSRA RA | | | 0.0 | 0.01 | 29.33 | 29.52 | 8.8 | 28 | 10.3 | 29 | 27 | 22 | 28 | 04 | |
| 05 | 86 | 64 | 75 | 5 | 58 | 65 | 0 | 10 | TSRA RA | | | 0.0 | 0.04 | 29.46 | 29.66 | 10.9 | 27 | 11.8 | 33 | 25 | 25 | 26 | 05 | |
| 06 | 80 | 63 | 72 | 2 | 55 | 62 | 0 | 7 | RA | | | 0.0 | 0.06 | 29.68 | 29.91 | 4.7 | 32 | 7.4 | 24 | 31 | 17 | 31 | 06 | |
| 07 | 89 | 59 | 74 | 3 | 63 | 68 | 0 | 9 | | | | 0.0 | 0.00 | 29.85 | 30.04 | 4.4 | 18 | 5.0 | 18 | 19 | 14 | 20 | 07 | |
| 08 | 95 | 72 | 84 | 13 | 70 | 74 | 0 | 19 | TS TSRA RA HZ | | | 0.0 | 0.01 | 29.77 | 29.95 | 6.9 | 24 | 6.9 | 38 | 32 | 30 | 33 | 08 | |
| 09 | 89 | 69 | 79 | 7 | 65 | 70 | 0 | 14 | RA | | | 0.0 | 0.03 | 29.72 | 29.91 | 9.2 | 02 | 9.9 | 28 | 04 | 22 | 03 | 09 | |
| 10 | 79 | 62 | 71 | -2 | 61 | 64 | 0 | 6 | | | | 0.0 | 0.00 | 29.82 | 30.00 | 3.5 | 07 | 5.4 | 15 | 13 | 13 | 13 | 10 | |
| 11 | 83 | 59 | 71 | -2 | 61 | 65 | 0 | 6 | TS TSRA RA BR | | | 0.0 | 0.26 | 29.86 | 30.05 | 0.8 | 23 | 2.6 | 29 | 34 | 22 | 34 | 11 | |
| 12 | 86 | 60 | 73 | -1 | 62 | 66 | 0 | 8 | TS TSRA RA BR | | | 0.0 | 0.13 | 29.83 | 30.02 | 4.2 | 01 | 4.8 | 33 | 01 | 25 | 02 | 12 | |
| 13 | 83 | 63 | 73 | -1 | 61 | 65 | 0 | 8 | RA BR | | | 0.0 | T | 29.84 | 30.02 | 3.2 | 11 | 5.6 | 20 | 14 | 16 | 14 | 13 | |
| 14 | 73 | 60 | 67 | -7 | 55 | 59 | 0 | 2 | RA DZ BR | | | 0.0 | 0.01 | 29.90 | 30.09 | 5.4 | 08 | 6.1 | 18 | 05 | 13 | 09 | 14 | |
| 15 | 75 | 57 | 66* | -8 | 54 | 59 | 0 | 1 | | | | 0.0 | 0.00 | 29.91 | 30.10 | 1.1 | 06 | 3.4 | 13 | 14 | 10 | 13 | 15 | |
| 16 | 80 | 57* | 69 | -5 | 58 | 63 | 0 | 4 | HZ | | | 0.0 | 0.00 | 29.87 | 30.06 | 3.0 | 25 | 3.5 | 14 | 25 | 12 | 23 | 16 | |
| 17 | 91 | 60 | 76 | 2 | 59 | 66 | 0 | 11 | BR HZ | | | 0.0 | 0.00 | 29.84 | 30.03 | 3.1 | 27 | 4.2 | 17 | 25 | 13 | 35 | 17 | |
| 18 | 97 | 68 | 83 | 9 | 64 | 71 | 0 | 18 | HZ | | | 0.0 | 0.00 | 29.83 | 30.02 | 0.7 | 30 | 3.5 | 15 | 02 | 12 | 03 | 18 | |
| 19 | 99* | 72 | 86* | 12 | 66 | 73 | 0 | 21 | HZ | | | 0.0 | 0.00 | 29.79 | 29.97 | 5.2 | 21 | 5.5 | 22 | 19 | 17 | 21 | 19 | |
| 20 | 85 | 67 | 76 | 1 | 60 | 68 | 0 | 11 | RA | | | 0.0 | 0.02 | 29.79 | 29.97 | 6.6 | 36 | 7.9 | 22 | 02 | 17 | 02 | 20 | |
| 21 | 88 | 65 | 77 | 2 | 50 | 62 | 0 | 12 | | | | 0.0 | 0.00 | 29.85 | 30.03 | 4.0 | 32 | 7.0 | 30 | 34 | 21 | 34 | 21 | |
| 22 | 84 | 61 | 73 | -2 | 52 | 61 | 0 | 8 | | | | 0.0 | 0.00 | 29.75 | 29.95 | 7.8 | 36 | 9.1 | 25 | 36 | 22 | 35 | 22 | |
| 23 | 84 | 60 | 72 | -3 | 50 | 59 | 0 | 7 | | | | 0.0 | 0.00 | 29.79 | 29.99 | 3.7 | 04 | 5.2 | 21 | 29 | 14 | 29 | 23 | |
| 24 | 85 | 62 | 74 | -1 | 62 | 67 | 0 | 9 | RA | | | 0.0 | T | 29.90 | 30.10 | 3.4 | 15 | 4.0 | 15 | 21 | 10 | 14 | 24 | |
| 25 | 87 | 71 | 79 | 3 | 67 | 71 | 0 | 14 | RA HZ | | | 0.0 | T | 30.01 | 30.21 | 4.6 | 21 | 5.1 | 18 | 21 | 12 | 24 | 25 | |
| 26 | 95 | 72 | 84 | 8 | 68 | 73 | 0 | 19 | RA BR HZ | | | 0.0 | T | 30.06 | 30.24 | 5.6 | 22 | 6.6 | 18 | 22 | 12 | 20 | 26 | |
| 27 | 98 | 72 | 85 | 9 | 69 | 73 | 0 | 20 | TS TSRA RA BR HZ | | | 0.0 | 0.66 | 29.96 | 30.12 | 7.9 | 22 | 8.6 | 54* | 23 | 43* | 21 | 27 | |
| 28 | 97 | 72 | 85 | 9 | 69 | 73 | 0 | 20 | TS TSRA RA BR HZ | | | 0.0 | 0.67 | 29.82 | 30.01 | 7.1 | 24 | 8.1 | 39 | 26 | 31 | 23 | 28 | |
| 29 | 88 | 71 | 80 | 4 | 70 | 73 | 0 | 15 | TSRA RA BR HZ | | | 0.0 | 0.63 | 29.82 | 30.00 | 1.4 | 03 | 4.9 | 22 | 35 | 18 | 35 | 29 | |
| 30 | 85 | 70 | 78 | 1 | 67 | 71 | 0 | 13 | TSRA RA BR HZ | | | 0.0 | 1.67 | 29.80 | 29.98 | 3.5 | 01 | 5.8 | 28 | 33 | 24 | 32 | 30 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|------|--------|---|----------------------------------|------|------|------|--|--|------------------------|--|-------------------------|--|---------------------------------|-------|-----------|----|-----|--------------------|--|--|--|
| 86.5 | 65.0 | 75.8 | ☼ | 61.6 | 67.0 | 0.0 | 11.1 | < MONTHLY AVERAGES TOTALS > | | | | 0.0 | 5.22 | 29.80 | 29.99 | 1.2 | 27 | 6.3 | < MONTHLY AVERAGES | | | |
| 2.9 | 1.7 | 2.3 | | -----DEPARTURE FROM NORMAL ----- | | | | | | | | 1.68 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | |
| DEGREE DAYS | | | | | | | | GREATEST 24-HR PRECIPITATION : 2.30 DATE : 29-30 | | | | SEA LEVEL PRESSURE | | | | DATE TIME | | | | | | |
| MONTHLY | | | | SEASON TO DATE | | | | GREATEST 24-HR SNOWFALL : 0.0 DATE : | | | | MAXIMUM : 30.29 26 0944 | | | | | | | | | | |
| TOTAL DEPARTURE | | | | TOTAL DEPARTURE | | | | GREATEST SNOW DEPTH : DATE : | | | | MINIMUM : 29.41 03 1854 | | | | | | | | | | |
| HEATING : | | 0 -8 | | 3307 | | -612 | | NUMBER OF -> | | MAXIMUM TEMP >= 90 : 7 | | MINIMUM TEMP <= 32 : 0 | | PRECIPITATION >= 0.01 INCH : 14 | | | | | | | | |
| COOLING : | | 332 55 | | 532 | | 106 | | DAYS WITH | | MAXIMUM TEMP <= 32 : 0 | | MINIMUM TEMP <= 0 : 0 | | PRECIPITATION >= 0.10 INCH : 7 | | | | | | | | |
| | | | | | | | | | | THUNDERSTORMS : 10 | | HEAVY FOG : 0 | | SNOWFALL >= 1.0 INCH : 0 | | | | | | | | |

JUNE 2007
RICHMOND, VA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
JUNE 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 | | 0.01 | T | 0.01 | 0.04 | 0.07 | 0.08 | 0.15 | 0.34 | 0.05 | 0.07 | 0.02 | 03 | 0.03 | T | | T | | T | 0.08 | T | | T | 0.01 | 0.06 | 1.02 | 1.02 | |
| 04 | T | 0.01 | | T | | | | | | | | | 04 | | | | | | | | | T | T | 0.01 | 0.01 | 0.01 | 0.01 | |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | | 0.02 | 0.02 | 0.04 | 0.04 | |
| 06 | 0.04 | T | | 0.02 | | | | | | | | | 06 | | | | | | | | | | | | 0.06 | 0.06 | | |
| 07 | | | | | | | | | | | | | 07 | | | | | | | | | | | | 0.00 | 0.00 | | |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | 0.01 | T | T | 0.01 | 0.01 | 0.01 | 0.01 | |
| 09 | | | | | | | | | | | | | 09 | | | | | | | | | | | | 0.00* | 0.03 | 0.00 | 0.00 |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | | | | | | | | | | | | | 11 | | | 0.23 | 0.02 | 0.01 | | | | | | 11 | 0.26 | 0.26 | | |
| 12 | | | | | | | | | | | | | 12 | | T | | | | | T | 0.01 | 0.12 | T | T | 0.13 | 0.13 | 0.13 | 0.13 |
| 13 | | | | | | | | | | | | | 13 | | | | | | | | | | | T | T | T | T | T |
| 14 | 0.01 | | | | T | T | | | | | | | 14 | | | | | | | | | | | | 0.01 | 0.01 | 0.01 | 0.01 |
| 15 | | | | | | | | | | | | | 15 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | | | | | | | | | | | | | 16 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | | | | | | | | | | | | | 18 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | | | | | | | | | | | | | 19 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | | | | | | T | | 0.02 | T | T | | | 20 | | | | | | | | | | | | 0.02 | 0.02 | 0.02 | 0.02 |
| 21 | | | | | | | | | | | | | 21 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | | | | | | | | | | | | | 23 | | | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | | | | | | | | | | | | | 24 | | | | | | | | | | T | | T | T | T | T |
| 25 | T | | | | | | | | | | | | 25 | | | | | | | | | | | | T | T | T | T |
| 26 | | | T | T | | | | | | | | | 26 | | | | | | | | | | | | T | T | T | T |
| 27 | | | | | | | | | | | | | 27 | | | | | 0.65 | 0.01 | | | | | | 0.66 | 0.66 | 0.66 | 0.66 |
| 28 | | | | | | | | | | | | | 28 | | | | | | | 0.64 | 0.03 | | | | 0.67 | 0.67 | 0.67 | 0.67 |
| 29 | | | | | | | | | | | | | 29 | | | | | T | | 0.11 | 0.50 | 0.01 | | 0.01 | 0.63 | 0.63 | 0.63 | 0.63 |
| 30 | 0.39 | 0.36 | 0.91 | 0.01 | | | | | | | | | 30 | | | | | | | | | | | | 1.67 | 1.67 | 1.67 | 1.67 |

* 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 | 0.48 | 0.58 | 0.65 | 0.79 | 0.88 | 0.95 | 1.02 | 1.21 | 1.29 | 1.56 | 1.67 |
| Ending Date | 29 | 29 | 27 | 27 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Ending Time (Hr/Min) | 2006 | 2006 | 1745 | 1749 | 0248 | 0254 | 0254 | 0254 | 0254 | 0249 | 0250 | 0254 |

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 JUNE 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:MMS, 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 | | | | | | | 10.00 | 10.00 | |
| 02 | | | | | | | 10.00 | 10.00 | |
| 03 | | | | | | | 1.25 | 10.00 | |
| 04 | | | | | | | 8.00 | 10.00 | |
| 05 | | | | | | | 7.00 | 10.00 | |
| 06 | | | | | | | 10.00 | 10.00 | |
| 07 | | | | | | | 7.00 | 10.00 | |
| 08 | | | | | | | 5.00 | 10.00 | |
| 09 | | | | | | | 10.00 | 10.00 | |
| 10 | | | | | | | 10.00 | 10.00 | |
| 11 | | | | | | | 5.00 | 10.00 | |
| 12 | | | | | | | 2.00 | 10.00 | |
| 13 | | | | | | | 6.00 | 10.00 | |
| 14 | | | | | | | 6.00 | 10.00 | |
| 15 | | | | | | | 10.00 | 10.00 | |
| 16 | | | | | | | 5.00 | 10.00 | |
| 17 | | | | | | | 1.00 | 10.00 | |
| 18 | | | | | | | 5.00 | 9.00 | |
| 19 | | | | | | | 3.00 | 8.00 | |
| 20 | | | | | | | 7.00 | 10.00 | |
| 21 | | | | | | | 10.00 | 10.00 | |
| 22 | | | | | | | 10.00 | 10.00 | |
| 23 | | | | | | | 10.00 | 10.00 | |
| 24 | | | | | | | 10.00 | 10.00 | |
| 25 | | | | | | | 6.00 | 10.00 | |
| 26 | | | | | | | 3.00 | 10.00 | |
| 27 | | | | | | | 4.00 | 10.00 | |
| 28 | | | | | | | 2.00 | 10.00 | |
| 29 | | | | | | | 3.00 | 10.00 | |
| 30 | | | | | | | 1.50 | 10.00 | |
| MONTHLY AVGS | | | | | | | 6.26 | 9.90 | |
| SUNSHINE (Minutes) | | | | | | | | | |
| Total : 0 | | | | | Possible : 26456 | | | | |
| Percent Possible : 0 | | | | | | | | | |
| NUMBER OF DAYS WITH : SKY CONDITION | | | | | | | | | |
| Clear | | Partly CLDY | | Cloudy | | Missing | | | |
| MINIMUM VISIBILITY (MILES) | | | | | | | | | |
| <= .25 | | <= 3.0 | | | | >= 7.0 | | | |
| 0 | | 8 | | | | 14 | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JUNE 2007

KRIC

WBAN # 13740

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | WIND SPEED (MPH) DIRECTION Tens of Deg | PRESSURE (INCHES, HG) | | HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | WIND SPEED (MPH) DIRECTION Tens of Deg | PRESSURE (INCHES, HG) | | | | | |
|---------------|-----------|-------------------------|---------------------------|----------------------|-----------------------|---------|-------------------|-----------|----------|---|----------------------------|--------------|------------|-----------|-------------------------|--------------|---------------------------|-----------------------|---------|----------------------|----------|-----------|---|--------------------------|----------------------------|-------------|--------------------------|---------|--------------|
| | | | Observation Time (LST) | Eff Cld Amt Oktas | | | DRY BULB | DEW POINT | WET BULB | | RELATIVE HUMIDITY (PCT) | STATION | | | | SEA LEVEL | Observation Time (LST) | | | Eff Cld Amt Oktas | DRY BULB | DEW POINT | | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUNRISE: 0450 | | | | | | JUN 01 | | | | | | SUNSET: 1924 | | | | | | | | | | | | | | | | | |
| 01 | SCT | 250 | | | 10.00 | | 68 | 58 | 62 | 71 | 6 | 21 | 29.95 | 30.14 | 01 | CLR | NC | | | 10.00 | | 62 | 57 | 59 | 84 | 5 | 12 | 29.87 | 30.06 |
| 04 | BKN | 250 | | | 10.00 | | 66 | 58 | 61 | 76 | 8 | 22 | 29.93 | 30.12 | 04 | CLR | NC | | | 9.00 | | 60 | 57 | 58 | 90 | 3 | 14 | 29.88 | 30.06 |
| 07 | FEW | 160 | | | 10.00 | | 70 | 60 | 64 | 71 | 7 | 22 | 29.94 | 30.13 | 07 | SCT | 250 | | | 7.00 | | 65 | 62 | 63 | 90 | 0 | 00 | 29.91 | 30.09 |
| 10 | SCT | 250 | | | 10.00 | | 80 | 62 | 69 | 54 | 7 | VR | 29.92 | 30.11 | 10 | OVC | 250 | | | 10.00 | | 78 | 62 | 68 | 58 | 8 | 18 | 29.91 | 30.10 |
| 13 | SCT | 250 | | | 10.00 | | 87 | 61 | 70 | 42 | 9 | 22 | 29.88 | 30.07 | 13 | BKN | 250 | | | 10.00 | | 85 | 64 | 71 | 49 | 10 | 17 | 29.85 | 30.03 |
| 16 | FEW | 060 | | | 10.00 | | 88 | 59 | 70 | 38 | 8 | 22 | 29.83 | 30.02 | 16 | SCT | 250 | | | 10.00 | | 88 | 64 | 72 | 45 | 7 | 21 | 29.80 | 29.99 |
| 19 | FEW | 250 | | | 10.00 | | 81 | 62 | 69 | 53 | 7 | 18 | 29.82 | 30.01 | 19 | BKN | 250 | | | 10.00 | | 84 | 66 | 72 | 55 | 5 | 18 | 29.80 | 29.99 |
| 22 | SCT | 250 | | | 10.00 | | 72 | 59 | 64 | 64 | 5 | 18 | 29.85 | 30.04 | 22 | BKN | 250 | | | 10.00 | | 76 | 69 | 71 | 79 | 0 | 00 | 29.82 | 30.01 |
| SUNRISE: 0450 | | | | | | JUN 02 | | | | | | SUNSET: 1925 | | | | | | | | | | | | | | | | | |
| 01 | BKN | 250 | | | 10.00 | | 70 | 60 | 64 | 71 | 7 | 20 | 29.84 | 30.03 | 01 | FEW | 250 | | | 10.00 | | 77 | 69 | 72 | 76 | 9 | 23 | 29.82 | 30.01 |
| 04 | BKN | 250 | | | 10.00 | | 66 | 60 | 62 | 81 | 3 | 20 | 29.83 | 30.01 | 04 | FEW | 250 | | | 10.00 | | 74 | 69 | 71 | 84 | 6 | 21 | 29.81 | 30.00 |
| 07 | OVC | 250 | | | 10.00 | | 70 | 62 | 65 | 76 | 8 | 22 | 29.83 | 30.02 | 07 | SCT | 250 | | | 10.00 | | 78 | 70 | 73 | 77 | 10 | 24 | 29.83 | 30.01 |
| 10 | SCT | 250 | | | 10.00 | | 79 | 63 | 69 | 58 | 9 | 21 | 29.82 | 30.01 | 10 | BKN | 250 | | | 10.00 | | 86 | 71 | 76 | 61 | 7 | 28 | 29.81 | 29.99 |
| 13 | OVC | 250 | | | 10.00 | | 85 | 63 | 71 | 48 | 10 | 22 | 29.78 | 29.97 | 13 | BKN | 250 | | | 10.00 | | 92 | 70 | 77 | 49 | 6 | 24 | 29.76 | 29.95 |
| 16 | OVC | 200 | | | 10.00 | | 83 | 61 | 69 | 48 | 9 | 18 | 29.73 | 29.92 | 16 | BKN | 250 | | | 10.00 | | 94 | 70 | 77 | 46 | 7 | 21 | 29.69 | 29.88 |
| 19 | OVC | 200 | | | 10.00 | | 76 | 61 | 67 | 60 | 6 | 19 | 29.71 | 29.90 | 19 | OVC | 250 | | | 10.00 | | 86 | 72 | 76 | 63 | 6 | 22 | 29.69 | 29.87 |
| 22 | OVC | 140 | | | 10.00 | | 73 | 63 | 67 | 71 | 10 | 19 | 29.72 | 29.91 | 22 | OVC | 095 | | | 5.00 | -TSRA HZ | 75 | 68 | 70 | 79 | 12 | 25 | 29.75 | 29.94 |
| SUNRISE: 0449 | | | | | | JUN 03 | | | | | | SUNSET: 1925 | | | | | | | | | | | | | | | | | |
| 01 | OVC | 150 | | | 10.00 | | 71 | 63 | 66 | 76 | 3 | 19 | 29.67 | 29.85 | 01 | OVC | 250 | | | 10.00 | | 73 | 69 | 70 | 87 | 7 | 34 | 29.73 | 29.91 |
| 04 | OVC | 100 | | | 10.00 | -RA | 67 | 64 | 65 | 90 | 5 | 08 | 29.60 | 29.79 | 04 | BKN | 250 | | | 10.00 | | 72 | 68 | 69 | 87 | 5 | 32 | 29.70 | 29.89 |
| 07 | OVC | 050 | | | 6.00 | RA BR | 67 | 65 | 66 | 93 | 8 | 08 | 29.54 | 29.73 | 07 | BKN | 250 | | | 10.00 | | 77 | 68 | 71 | 74 | 10 | 01 | 29.75 | 29.93 |
| 10 | OVC | 012 | | | 1.50 | -RA BR | 68 | 66 | 67 | 93 | 13 | 07 | 29.44 | 29.63 | 10 | SCT | 250 | | | 10.00 | | 82 | 66 | 71 | 58 | 16 | 04 | 29.77 | 29.96 |
| 13 | OVC | 013 | | | 1.50 | -RA BR | 71 | 69 | 70 | 93 | 14 | 07 | 29.34 | 29.52 | 13 | SCT | 250 | | | 10.00 | | 86 | 65 | 72 | 50 | 15 | 02 | 29.73 | 29.91 |
| 16 | OVC | 003 | | | 2.00 | BR | 71 | 69 | 70 | 93 | 8 | 05 | 29.26 | 29.45 | 16 | SCT | 200 | | | 10.00 | | 87 | 62 | 71 | 43 | 14 | 03 | 29.69 | 29.88 |
| 19 | BKN | 036 | | | 1.25 | -RA BR | 72 | 70 | 71 | 93 | 3 | 10 | 29.23 | 29.41 | 19 | FEW | 250 | | | 10.00 | | 82 | 63 | 70 | 53 | 5 | 03 | 29.71 | 29.89 |
| 22 | OVC | 075 | | | 10.00 | -RA | 70 | 67 | 68 | 90 | 0 | 00 | 29.26 | 29.44 | 22 | FEW | 250 | | | 10.00 | | 73 | 61 | 66 | 66 | 6 | 02 | 29.75 | 29.94 |
| SUNRISE: 0449 | | | | | | JUN 04 | | | | | | SUNSET: 1926 | | | | | | | | | | | | | | | | | |
| 01 | OVC | 007 | | | 9.00 | | 70 | 68 | 69 | 93 | 9 | 31 | 29.23 | 29.42 | 01 | FEW | 250 | | | 10.00 | | 67 | 58 | 62 | 73 | 5 | 03 | 29.74 | 29.93 |
| 04 | OVC | 010 | | | 8.00 | -RA | 68 | 65 | 66 | 90 | 7 | 30 | 29.26 | 29.45 | 04 | CLR | NC | | | 10.00 | | 62 | 54 | 58 | 75 | 6 | 02 | 29.76 | 29.94 |
| 07 | SCT | 200 | | | 10.00 | | 69 | 63 | 65 | 81 | 9 | 31 | 29.36 | 29.54 | 07 | BKN | 023 | | | 10.00 | | 68 | 58 | 62 | 71 | 5 | 02 | 29.82 | 30.01 |
| 10 | BKN | 250 | | | 10.00 | | 78 | 62 | 68 | 58 | 10 | 27 | 29.39 | 29.57 | 10 | OVC | 027 | | | 10.00 | | 72 | 64 | 67 | 76 | 3 | VR | 29.82 | 30.01 |
| 13 | BKN | 250 | | | 10.00 | | 85 | 59 | 68 | 41 | 15 | 27 | 29.36 | 29.55 | 13 | OVC | 140 | | | 10.00 | | 76 | 64 | 68 | 67 | 8 | 06 | 29.82 | 30.01 |
| 16 | BKN | 250 | | | 10.00 | | 85 | 61 | 70 | 45 | 10 | 25 | 29.34 | 29.52 | 16 | SCT | 048 | | | 10.00 | | 77 | 62 | 68 | 60 | 9 | 11 | 29.81 | 30.00 |
| 19 | SCT | 250 | | | 10.00 | | 80 | 63 | 69 | 56 | 6 | 21 | 29.34 | 29.52 | 19 | BKN | 250 | | | 10.00 | | 72 | 62 | 66 | 71 | 7 | 10 | 29.84 | 30.03 |
| 22 | BKN | 250 | | | 10.00 | TS | 76 | 59 | 66 | 56 | 9 | 31 | 29.37 | 29.56 | 22 | SCT | 250 | | | 10.00 | | 67 | 61 | 63 | 81 | 5 | 15 | 29.86 | 30.05 |
| SUNRISE: 0449 | | | | | | JUN 05 | | | | | | SUNSET: 1926 | | | | | | | | | | | | | | | | | |
| 01 | SCT | 250 | | | 10.00 | | 69 | 63 | 65 | 81 | 6 | 22 | 29.39 | 29.58 | 01 | SCT | 250 | | | 10.00 | | 64 | 57 | 60 | 78 | 3 | 22 | 29.86 | 30.05 |
| 04 | FEW | 250 | | | 10.00 | | 65 | 62 | 63 | 90 | 8 | 21 | 29.39 | 29.58 | 04 | SCT | 250 | | | 10.00 | | 61 | 56 | 58 | 84 | 0 | 00 | 29.87 | 30.06 |
| 07 | FEW | 100 | | | 10.00 | | 72 | 57 | 63 | 59 | 11 | 27 | 29.44 | 29.63 | 07 | BKN | 250 | | | 10.00 | | 68 | 61 | 64 | 78 | 5 | 23 | 29.90 | 30.09 |
| 10 | FEW | 030 | | | 10.00 | | 80 | 57 | 66 | 45 | 22 | 27 | 29.47 | 29.66 | 10 | OVC | 250 | | | 10.00 | | 77 | 61 | 67 | 58 | 0 | 00 | 29.89 | 30.08 |
| 13 | SCT | 055 | | | 10.00 | | 84 | 56 | 67 | 38 | 20 | 28 | 29.48 | 29.67 | 13 | BKN | 250 | | | 10.00 | | 82 | 61 | 69 | 49 | 7 | 20 | 29.85 | 30.03 |
| 16 | BKN | 250 | | | 10.00 | | 83 | 55 | 66 | 38 | 18 | 26 | 29.49 | 29.67 | 16 | OVC | 140 | | | 10.00 | | 69 | 61 | 64 | 76 | 6 | 34 | 29.84 | 30.03 |
| 19 | SCT | 250 | | | 10.00 | | 81 | 53 | 64 | 38 | 7 | 29 | 29.52 | 29.70 | 19 | SCT | 250 | | | 10.00 | | 71 | 66 | 68 | 84 | 3 | 21 | 29.83 | 30.02 |
| 22 | BKN | 250 | | | 10.00 | | 72 | 59 | 64 | 64 | 3 | 16 | 29.54 | 29.73 | 22 | SCT | 100 | | | 7.00 | | 67 | 65 | 66 | 93 | 3 | 01 | 29.86 | 30.05 |
| SUNRISE: 0449 | | | | | | JUN 06 | | | | | | SUNSET: 1927 | | | | | | | | | | | | | | | | | |
| 01 | OVC | 085 | | | 10.00 | -RA | 65 | 62 | 63 | 90 | 3 | 20 | 29.57 | 29.75 | 01 | SCT | 200 | | | 5.00 | BR | 66 | 63 | 64 | 90 | 0 | 00 | 29.85 | 30.03 |
| 04 | SCT | 090 | | | 10.00 | | 66 | 60 | 62 | 81 | 8 | 29 | 29.58 | 29.77 | 04 | FEW | 001 | | | 2.00 | BR | 64 | 62 | 63 | 93 | 0 | 00 | 29.83 | 30.02 |
| 07 | SCT | 250 | | | 10.00 | | 69 | 59 | 63 | 71 | 10 | 36 | 29.67 | 29.85 | 07 | FEW | 250 | | | 8.00 | | 68 | 64 | 66 | 87 | 5 | 33 | 29.86 | 30.04 |
| 10 | BKN | 250 | | | 10.00 | | 76 | 56 | 64 | 50 | 11 | 36 | 29.73 | 29.92 | 10 | FEW | 250 | | | 10.00 | | 80 | 62 | 69 | 54 | 7 | 36 | 29.85 | 30.04 |
| 13 | OVC | 250 | | | 10.00 | | 77 | 49 | 61 | 37 | 10 | 31 | 29.74 | 29.93 | 13 | BKN | 250 | | | 10.00 | | 85 | 59 | 69 | 41 | 10 | 03 | 29.83 | 30.02 |
| 16 | SCT | 070 | | | 10.00 | | 80 | 48 | 62 | 33 | 10 | 32 | 29.75 | 29.93 | 16 | BKN | 250 | | | 10.00 | | 85 | 60 | 69 | 43 | 3 | VR | 29.79 | 29.98 |
| 19 | FEW | 180 | | | 10.00 | | 77 | 49 | 61 | 37 | 5 | 33 | 29.77 | 29.96 | 19 | BKN | 100 | | | 10.00 | -TSRA | 77 | 64 | 69 | 64 | 3 | 09 | 29.80 | 29.99 |
| 22 | CLR | NC | | | 10.00 | | 65 | 56 | 60 | 73 | 0 | 00 | 29.83 | 30.02 | 22 | BKN | 110 | | | 10.00 | | 66 | 63 | 64 | 90 | 0 | 00 | 29.85 | 30.04 |

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JUNE 2007

KRIC

WBAN # 13740

Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., SATELLITE (Observation Time (LST), Eff Cld Amt Oktas, VISIBILITY (MILES)), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED (MPH), DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). Rows are grouped by date (JUN 13-18) and time (SUNRISE/SUNSET).

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JUNE 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 Cld Amt Oktas | | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL |
| | | | | | | | | | | | | | | |
| JUN 25 | | | | | | | | | | | | | | |
| 01 | OVC | 130 | | | 10.00 | -RA | 74 | 66 | 69 | 76 | 9 | 22 | 30.00 | 30.19 |
| 04 | OVC | 140 | | | 9.00 | | 72 | 66 | 68 | 82 | 5 | 19 | 29.98 | 30.17 |
| 07 | OVC | 250 | | | 9.00 | | 75 | 67 | 70 | 76 | 7 | 24 | 30.02 | 30.20 |
| 10 | OVC | 150 | | | 10.00 | | 77 | 65 | 69 | 67 | 8 | 22 | 30.06 | 30.25 |
| 13 | OVC | 250 | | | 9.00 | | 85 | 66 | 72 | 53 | 9 | 21 | 30.05 | 30.23 |
| 16 | OVC | 150 | | | 9.00 | | 83 | 67 | 72 | 59 | 3 | 18 | 30.00 | 30.19 |
| 19 | BKN | 250 | | | 7.00 | | 83 | 70 | 74 | 65 | 3 | 18 | 30.01 | 30.19 |
| 22 | OVC | 250 | | | 7.00 | | 76 | 70 | 72 | 82 | 3 | 16 | 30.05 | 30.24 |
| JUN 26 | | | | | | | | | | | | | | |
| 01 | OVC | 250 | | | 5.00 | HZ | 75 | 70 | 72 | 85 | 6 | 20 | 30.06 | 30.24 |
| 04 | OVC | 140 | | | 4.00 | BR | 74 | 70 | 71 | 87 | 0 | 00 | 30.05 | 30.24 |
| 07 | SCT | 150 | | | 5.00 | HZ | 75 | 69 | 71 | 82 | 8 | 20 | 30.10 | 30.28 |
| 10 | FEW | 150 | | | 10.00 | | 84 | 66 | 72 | 55 | 5 | 23 | 30.10 | 30.28 |
| 13 | FEW | 050 | | | 10.00 | | 92 | 67 | 75 | 44 | 9 | 22 | 30.07 | 30.25 |
| 16 | SCT | 250 | | | 10.00 | | 95 | 64 | 74 | 36 | 6 | 28 | 30.02 | 30.21 |
| 19 | BKN | 250 | | | 7.00 | | 89 | 67 | 74 | 48 | 9 | 17 | 30.00 | 30.19 |
| 22 | BKN | 250 | | | 7.00 | | 80 | 69 | 73 | 69 | 3 | 19 | 30.02 | 30.21 |
| JUN 27 | | | | | | | | | | | | | | |
| 01 | BKN | 250 | | | 7.00 | | 78 | 69 | 72 | 74 | 7 | 20 | 30.00 | 30.18 |
| 04 | CLR | NC | | | 6.00 | HZ | 74 | 68 | 70 | 82 | 6 | 22 | 29.97 | 30.16 |
| 07 | CLR | NC | | | 6.00 | HZ | 78 | 68 | 71 | 71 | 7 | 22 | 29.99 | 30.18 |
| 10 | CLR | NC | | | 8.00 | | 88 | 67 | 74 | 50 | 6 | VR | 29.97 | 30.16 |
| 13 | SCT | 055 | | | 10.00 | | 95 | 66 | 75 | 39 | 13 | 23 | 29.94 | 30.12 |
| 16 | SCT | 065 | | | 7.00 | | 97 | 64 | 75 | 34 | 13 | 21 | 29.87 | 30.06 |
| 19 | BKN | 150 | | | 6.00 | BR | 77 | 75 | 76 | 94 | 6 | 23 | 29.89 | 30.08 |
| 22 | BKN | 120 | | | 5.00 | BR | 75 | 72 | 73 | 90 | 6 | 20 | 29.92 | 30.11 |
| JUN 28 | | | | | | | | | | | | | | |
| 01 | BKN | 180 | | | 6.00 | BR | 74 | 70 | 71 | 87 | 6 | 21 | 29.88 | 30.07 |
| 04 | BKN | 250 | | | 5.00 | BR | 72 | 69 | 70 | 90 | 6 | 21 | 29.86 | 30.04 |
| 07 | FEW | 250 | | | 5.00 | HZ | 76 | 70 | 72 | 82 | 9 | 23 | 29.87 | 30.06 |
| 10 | FEW | 250 | | | 7.00 | | 87 | 69 | 75 | 55 | 8 | 27 | 29.86 | 30.05 |
| 13 | SCT | 150 | | | 8.00 | | 95 | 66 | 75 | 39 | 10 | 28 | 29.82 | 30.01 |
| 16 | SCT | 150 | | | 10.00 | | 95 | 65 | 75 | 37 | 13 | 25 | 29.75 | 29.93 |
| 19 | BKN | 150 | | | 9.00 | | 84 | 70 | 74 | 63 | 22 | 23 | 29.78 | 29.97 |
| 22 | BKN | 150 | | | 5.00 | BR | 74 | 72 | 73 | 94 | 3 | 22 | 29.82 | 30.00 |
| JUN 29 | | | | | | | | | | | | | | |
| 01 | OVC | 250 | | | 4.00 | BR | 73 | 71 | 72 | 93 | 3 | 20 | 29.79 | 29.98 |
| 04 | FEW | 100 | | | 3.00 | BR | 72 | 70 | 71 | 93 | 0 | 00 | 29.79 | 29.97 |
| 07 | OVC | 140 | | | 4.00 | BR | 74 | 71 | 72 | 90 | 5 | 22 | 29.83 | 30.01 |
| 10 | OVC | 140 | | | 6.00 | HZ | 80 | 71 | 74 | 74 | 3 | 01 | 29.84 | 30.03 |
| 13 | BKN | 140 | | | 10.00 | | 86 | 68 | 74 | 55 | 6 | 01 | 29.84 | 30.02 |
| 16 | BKN | 200 | | | 10.00 | | 84 | 69 | 74 | 61 | 7 | 05 | 29.79 | 29.98 |
| 19 | BKN | 150 | | | 6.00 | HZ | 77 | 72 | 74 | 85 | 5 | 09 | 29.80 | 29.99 |
| 22 | OVC | 050 | | | 3.00 | BR | 73 | 71 | 72 | 93 | 5 | 11 | 29.84 | 30.03 |
| JUN 30 | | | | | | | | | | | | | | |
| 01 | OVC | 047 | | | 3.00 | TS+RA BR | 72 | 70 | 71 | 93 | 8 | 06 | 29.81 | 30.00 |
| 04 | BKN | 090 | | | 7.00 | | 71 | 69 | 70 | 93 | 0 | 00 | 29.78 | 29.97 |
| 07 | BKN | 150 | | | 7.00 | | 73 | 69 | 70 | 87 | 7 | 35 | 29.81 | 30.00 |
| 10 | BKN | 150 | | | 7.00 | | 79 | 69 | 72 | 72 | 6 | 05 | 29.82 | 30.01 |
| 13 | BKN | 250 | | | 8.00 | | 84 | 67 | 73 | 57 | 7 | VR | 29.80 | 29.99 |
| 16 | BKN | 150 | | | 10.00 | | 84 | 63 | 70 | 49 | 7 | 36 | 29.76 | 29.95 |
| 19 | SCT | 200 | | | 10.00 | | 79 | 63 | 69 | 58 | 5 | 34 | 29.76 | 29.95 |
| 22 | BKN | 200 | | | 6.00 | BR | 73 | 69 | 70 | 87 | 6 | 13 | 29.81 | 30.00 |

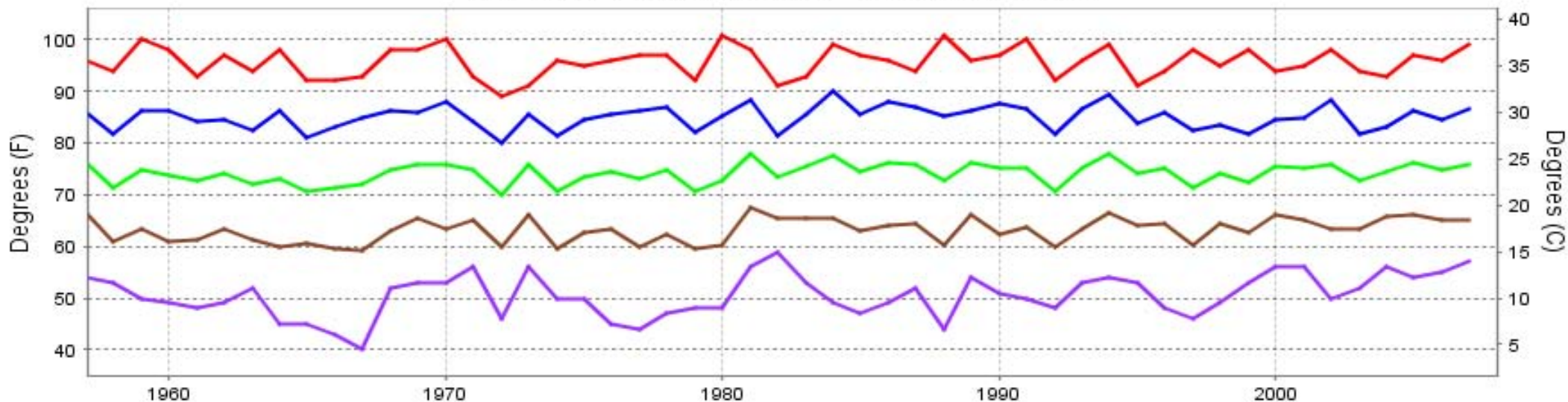
| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE | | WEATHER | TEMPERATURE °F | | | WIND | | PRESSURE (INCHES, HG) | | | |
|------------|-----------|-------------------------|---------------------------|----------------------|---------|-----------------------|----------|-----------|----------|----------------------------|--------------------------|--------------------------|---------|--------------|
| | | | Observation Time (LST) | Eff Cld 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 | | | 69 | 62 | 65 | 79 | 29.80 | 29.99 | 8.47 | 5 | 3 | 21 |
| 02 | | | 69 | 62 | 65 | 79 | 29.80 | 29.99 | 8.50 | 5 | 4 | 21 |
| 03 | | | 68 | 62 | 64 | 80 | 29.79 | 29.98 | 8.32 | 4 | 3 | 20 |
| 04 | | | 67 | 61 | 64 | 83 | 29.79 | 29.98 | 8.10 | 4 | 4 | 20 |
| 05 | | | 67 | 61 | 63 | 83 | 29.80 | 29.99 | 7.83 | 4 | 3 | 20 |
| 06 | | | 68 | 62 | 64 | 81 | 29.82 | 30.00 | 7.58 | 5 | 3 | 21 |
| 07 | | | 71 | 62 | 66 | 74 | 29.83 | 30.01 | 8.23 | 6 | 3 | 22 |
| 08 | | | 74 | 63 | 67 | 68 | 29.83 | 30.02 | 8.53 | 7 | 4 | 22 |
| 09 | | | 77 | 62 | 68 | 63 | 29.83 | 30.02 | 8.85 | 8 | 3 | 22 |
| 10 | | | 79 | 62 | 68 | 57 | 29.83 | 30.02 | 9.05 | 7 | 3 | 21 |
| 11 | | | 81 | 61 | 68 | 53 | 29.83 | 30.01 | 9.18 | 8 | 3 | 21 |
| 12 | | | 83 | 61 | 69 | 49 | 29.81 | 30.00 | 9.42 | 9 | 3 | 22 |
| 13 | | | 84 | 60 | 69 | 46 | 29.80 | 29.99 | 9.42 | 10 | 4 | 23 |
| 14 | | | 84 | 60 | 69 | 46 | 29.79 | 29.98 | 9.77 | 8 | 3 | 22 |
| 15 | | | 85 | 60 | 69 | 45 | 29.77 | 29.96 | 9.57 | 9 | 4 | 22 |
| 16 | | | 85 | 60 | 69 | 45 | 29.76 | 29.95 | 9.43 | 9 | 3 | 22 |
| 17 | | | 83 | 60 | 69 | 48 | 29.76 | 29.94 | 9.34 | 9 | 3 | 22 |
| 18 | | | 82 | 61 | 69 | 52 | 29.76 | 29.95 | 9.08 | 8 | 2 | 21 |
| 19 | | | 79 | 62 | 69 | 58 | 29.77 | 29.96 | 8.84 | 6 | 2 | 20 |
| 20 | | | 75 | 62 | 67 | 66 | 29.78 | 29.97 | 8.67 | 5 | 3 | 16 |
| 21 | | | 74 | 63 | 67 | 69 | 29.79 | 29.98 | 8.63 | 4 | 3 | 17 |
| 22 | | | 72 | 63 | 66 | 73 | 29.80 | 29.99 | 8.40 | 4 | 3 | 19 |
| 23 | | | 71 | 63 | 66 | 76 | 29.80 | 29.99 | 8.53 | 4 | 3 | 18 |
| 24 | | | 71 | 63 | 66 | 76 | 29.80 | 29.99 | 8.47 | 5 | 4 | 21 |

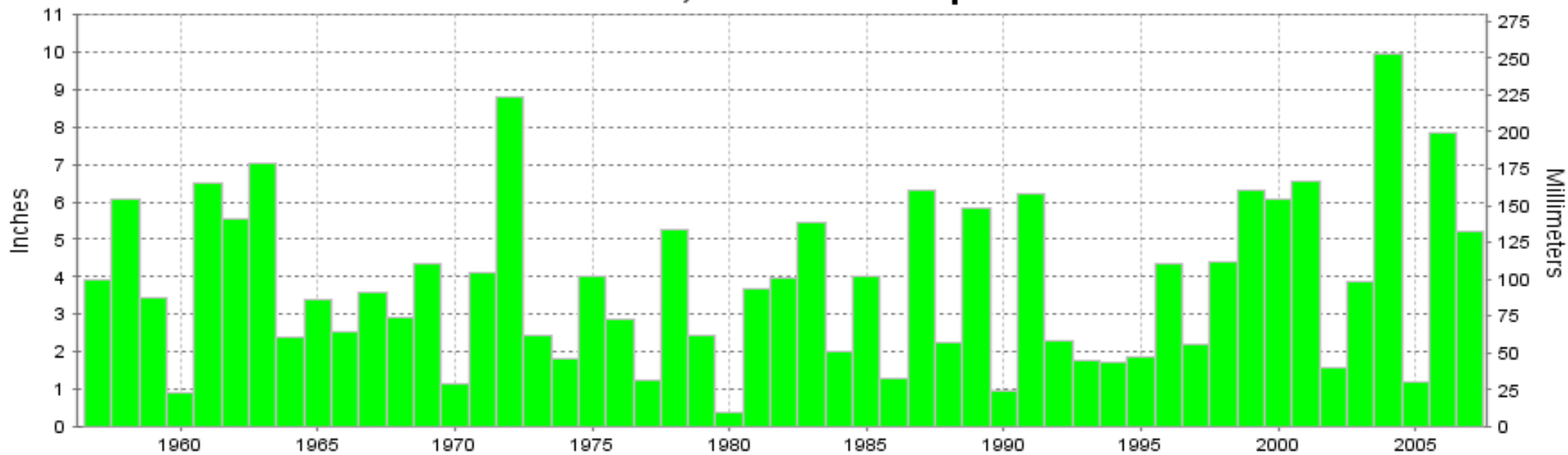
RICHMOND, VA JUNE Temperatures



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

Long-Term (1957-2007) Mean: 74.1
1971-2000 Normal: 73.5

RICHMOND, VA JUNE Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.85

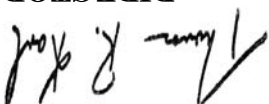
1971-2000 Normal: 3.54



**JUNE 2007
RICHMOND, VA**

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