

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



R.E. BYRD INTERNATIONAL APT.

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN 13740

JUN 1990
 RICHMOND, VA

| DATE | TEMPERATURE °F | | | | | | DEGREE DAYS BASE 65°F | | WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW | SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES | PRECIPITATION | | AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE M.S.L. | WIND (M.P.H.) | | | | | SUNSHINE | | SKY COVER (TENTHS) | | | | | |
|----------------|----------------|---------------|---------|-----------------------|-------------------|----------------------------------|----------------------------------|---------------------------|---|--|----------------------------|----------------|---|-------------------|-----------------------------------|---------------|-----------|--------------|----------|---------------------------|--------------------|----------------------|-----|----|--|--|
| | MAXIMUM | MINIMUM | AVERAGE | DEPARTURE FROM NORMAL | AVERAGE DEN POINT | HEATING I SEASON BEGINS WITH JUL | COOLING I SEASON BEGINS WITH JAN | WATER EQUIVALENT (INCHES) | | | SNOW, ICE PELLETS (INCHES) | RESULTANT DIR. | | RESULTANT SPEED | AVERAGE SPEED | PEAK GUST | DIRECTION | FATEST 1-MIN | MINUTES | PERCENT OF TOTAL POSSIBLE | SUNRISE TO SUNSET | MIDNIGHT TO MIDNIGHT | | | | |
| 01 | 84 | 52 | 68 | -2 | 58 | 0 | 3 | 1 | 8 | 0 | 0.00 | 0.0 | 30.060 | 19 | 8.1 | 8.2 | 20 | S | 15 | 20 | 725 | 83 | 1 | 1 | | |
| 02 | 83 | 62 | 73 | 3 | 61 | 0 | 8 | 1 | 8 | 0 | 0.00 | 0.0 | 30.030 | 22 | 12.2 | 12.6 | 30 | SW | 22 | 23 | 586 | 67 | 9 | 7 | | |
| 03 | 84 | 67 | 76 | 5 | 67 | 0 | 11 | 3 | 8 | 0 | 0.00 | 0.0 | 29.770 | 21 | 14.5 | 14.7 | 31 | SW | 22 | 21 | 640 | 73 | 9 | 8 | | |
| 04 | 86 | 55 | 71 | 0 | 59 | 0 | 6 | 1 | 8 | 0 | 0.00 | 0.0 | 29.650 | 30 | 7.1 | 12.7 | 28 | N | 20 | 26 | 766 | 87 | 4 | 3 | | |
| 05 | 73 | 51* | 62* | -9 | 45 | 3 | 0 | 0 | 0 | 0 | 0.00 | 0.0 | 29.890 | 03 | 4.2 | 7.3 | 21 | NE | 15 | 03 | 794 | 90 | 1 | 1 | | |
| 06 | 84 | 52 | 68 | -4 | 60 | 0 | 3 | 1 | 8 | 0 | 0.00 | 0.0 | 29.880 | 21 | 11.9 | 12.6 | 28 | SW | 22 | 20 | 709 | 81 | 3 | 3 | | |
| 07 | 88 | 67 | 78 | 6 | 64 | 0 | 13 | 8 | 8 | 0 | 0.00 | 0.0 | 29.830 | 27 | 4.5 | 8.9 | 23 | W | 15 | 28 | 664 | 75 | 7 | 7 | | |
| 08 | 93 | 66 | 80 | 8 | 69 | 0 | 15 | 1 | 3 | 8 | 0 | 0.0 | 29.860 | 19 | 7.4 | 8.7 | 22 | SW | 16 | 25 | 713 | 81 | 6 | 6 | | |
| 09 | 95 | 72 | 84 | 12 | 69 | 0 | 19 | 3 | 8 | 0 | 0.04 | 0.0 | 29.760 | 24 | 9.7 | 10.8 | 28 | SW | 15 | 21 | 650 | 74 | 8 | 8 | | |
| 10 | 89 | 69 | 79 | 7 | 62 | 0 | 14 | 0 | 0 | 0 | 0.0 | 0.0 | 29.720 | 32 | 7.9 | 10.5 | 25 | W | 17 | 29 | 717 | 81 | 4 | 5 | | |
| 11 | 80 | 62 | 71 | -2 | 50 | 0 | 6 | 0 | 0 | 0 | 0.00 | 0.0 | 29.800 | 36 | 13.7 | 14.2 | 31 | N | 22 | 34 | 822 | 93 | 5 | 4 | | |
| 12 | 79 | 58 | 69 | -4 | 49 | 0 | 4 | 0 | 0 | 0 | 0.00 | 0.0 | 29.990 | 36 | 8.2 | 8.7 | 20 | N | 16 | 34 | 781 | 89 | 7 | 6 | | |
| 13 | 86 | 52 | 69 | -4 | 50 | 0 | 4 | 0 | 0 | 0 | 0.00 | 0.0 | 29.980 | 21 | 2.9 | 5.2 | 16 | W | 12 | 29 | 781 | 88 | 8 | 6 | | |
| 14 | 88 | 59 | 74 | 1 | 61 | 0 | 9 | 0 | 8 | 0 | 0.00 | 0.0 | 29.790 | 14 | 5.9 | 6.6 | 16 | E | 12 | 12 | 659 | 75 | 5 | 5 | | |
| 15 | 78 | 63 | 71 | -3 | 58 | 0 | 6 | 0 | 8 | 0 | 0.00 | 0.0 | 29.780 | 10 | 6.3 | 8.0 | 18 | E | 13 | 08 | 351 | 40 | 10 | 10 | | |
| 16 | 86 | 60 | 73 | -1 | 60 | 0 | 8 | 1 | 8 | 0 | 0.00 | 0.0 | 29.900 | 07 | 4.5 | 5.8 | 18 | NE | 13 | 10 | 779 | 88 | 2 | 3 | | |
| 17 | 88 | 59 | 74 | 0 | 61 | 0 | 9 | 2 | 8 | 0 | 0.00 | 0.0 | 29.930 | 15 | 3.4 | 4.8 | 13 | E | 9 | 10 | 754 | 85 | 3 | 2 | | |
| 18 | 94 | 63 | 79 | 5 | 66 | 0 | 14 | 1 | 3 | 8 | 0 | 0.35 | 29.730 | 21 | 6.3 | 8.9 | 45 | N | 30 | 32 | 626 | 71 | 3 | 4 | | |
| 19 | 91 | 66 | 79 | 5 | 65 | 0 | 14 | 1 | 8 | 0 | 0.0 | 0.0 | 29.580 | 31 | 5.5 | 8.8 | 28 | NE | 18 | 04 | 598 | 68 | 5 | 4 | | |
| 20 | 86 | 61 | 74 | -1 | 58 | 0 | 9 | 0 | 8 | 0 | 0.00 | 0.0 | 29.720 | 33 | 2.0 | 7.5 | 16 | SW | 12 | 01 | 669 | 76 | 4 | 5 | | |
| 21 | 92 | 69 | 81 | 6 | 66 | 0 | 16 | 0 | 8 | 0 | 0.04 | 0.0 | 29.720 | 26 | 6.0 | 8.9 | 24 | NW | 14 | 33 | 677 | 77 | 8 | 7 | | |
| 22 | 93 | 65 | 79 | 4 | 66 | 0 | 14 | 1 | 3 | 8 | 0 | 0.24 | 29.715 | 17 | 5.8 | 7.8 | 43 | SW | 31 | 21 | 562 | 64 | 7 | 6 | | |
| 23 | 87 | 67 | 77 | 2 | 63 | 0 | 12 | 1 | 8 | 0 | 0.0 | 0.0 | 29.530 | 24 | 9.0 | 10.2 | 28 | W | 21 | 27 | 723 | 82 | 7 | 5 | | |
| 24 | 84 | 62 | 73 | -2 | 56 | 0 | 8 | 0 | 8 | 0 | 0.00 | 0.0 | 29.650 | 28 | 6.6 | 7.5 | 17 | W | 12 | 27 | 778 | 88 | 3 | 2 | | |
| 25 | 88 | 56 | 72 | -3 | 54 | 0 | 7 | 0 | 8 | 0 | 0.00 | 0.0 | 29.890 | 22 | 1.3 | 5.4 | 15 | NW | 12 | 28 | 788 | 89 | 1 | 1 | | |
| 26 | 91 | 62 | 77 | 1 | 61 | 0 | 12 | 0 | 8 | 0 | 0.00 | 0.0 | 29.930 | 17 | 4.7 | 6.7 | 16 | SE | 14 | 16 | 694 | 79 | 5 | 5 | | |
| 27 | 94 | 64 | 79 | 3 | 64 | 0 | 14 | 0 | 8 | 0 | 0.00 | 0.0 | 29.860 | 21 | 6.7 | 8.1 | 16 | S | 14 | 23 | 661 | 75 | 3 | 4 | | |
| 28 | 93 | 69 | 81 | 5 | 65 | 0 | 16 | 0 | 8 | 0 | 0.00 | 0.0 | 29.890 | 08 | 2.9 | 5.8 | 12 | NE | 8 | 11 | 696 | 79 | 3 | 2 | | |
| 29 | 97* | 68 | 83 | 7 | 65 | 0 | 18 | 1 | 8 | 0 | 0.00 | 0.0 | 29.820 | 25 | 8.7 | 9.5 | 26 | W | 17 | 24 | 719 | 81 | 3 | 3 | | |
| 30 | 94 | 75 | 85* | 9 | 67 | 0 | 20 | 1 | 3 | 8 | 0 | 0.30 | 29.730 | 26 | 4.6 | 7.9 | 28 | NE | 14 | 27 | 573 | 65 | 8 | 8 | | |
| SUM | SUM | SUM | SUM | SUM | SUM | TOTAL | TOTAL | NUMBER OF DAYS | | TOTAL | TOTAL | FOR THE MONTH: | | | | | TOTAL | % | SUM | SUM | | | | | | |
| 2628 | 1873 | | | | | 3 | 312 | | | 0.97 | 0.0 | 29.810 | 23 | 2.9 | 8.8 | 45 | N | 31 | 21 | 20655 | FOR | 152 | 141 | | | |
| AVG. | AVG. | AVG. | DEP. | AVG. | DEP. | DEP. | DEP. | PRECIPITATION | | DEP. | | | | | | DATE: 18 | DATE: 22 | POSSIBLE | MONTH | AVG. | AVG. | | | | | |
| 87.6 | 62.4 | 75.0 | 1.5 | 60.5 | 3 | 54 | 3 | ≥ .01 INCH. | | 5 | -2.63 | | | | | | | 26469 | 78 | 5.1 | 4.7 | | | | | |
| NUMBER OF DAYS | | | | | | SEASON TO DATE | | SNOW, ICE PELLETS | | GREATEST IN 24 HOURS AND DATES | | | | | GREATEST DEPTH ON GROUND OF | | | | | | | | | | | |
| | | | | | | TOTAL | TOTAL | ≥ 1.0 INCH. | | | | | | | SNOW, ICE PELLETS OR ICE AND DATE | | | | | | | | | | | |
| MAXIMUM TEMP. | | MINIMUM TEMP. | | 3519 | | 488 | | THUNDERSTORMS | | 6 | | PRECIPITATION | | SNOW, ICE PELLETS | | | | | | | | | | | | |
| ≥ 90° | | ≤ 32° | | ≤ 32° | | ≤ 0° | | DEP. | | DEP. | | HEAVY FOG | | 1 | | 0.35 | | 18 | | 0 | | 0 | | | | |
| 11 | | 0 | | 0 | | 0 | | -441 | | 118 | | CLEAR | | 11 | | PARTLY CLOUDY | | 12 | | CLOUDY | | 7 | | | | |

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 † TRACE AMOUNT.
 + ALSO ON EARLIER DATE(S).
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
 BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Haden
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUN 1990 RICHMOND, VA 13740

Table with columns for time (Hour, L.S.T.), sky cover, visibility, temperature, wind, and weather for each day from June 1st to June 18th. Each entry includes data for air, wet bulb, and dew point temperatures, relative humidity, wind direction and speed, and sky cover details.

WEATHER CODES

- * TORNADO
T THUNDERSTORM
Q SQUALL
R RAIN
RW RAIN SHOWERS
ZR FREEZING RAIN
L DRIZZLE
ZL FREEZING DRIZZLE
S SNOW
SW SNOW SHOWERS
SG SNOW GRAINS
SP SNOW PELLETS
IC ICE CRYSTALS
IP ICE PELLETS
IPW ICE PELLET SHOWERS
A HAIL
F FOG
IF ICE FOG
GF GROUND FOG
BD BLOWING DUST
BN BLOWING SAND
BS BLOWING SNOW
BY BLOWING SPRAY
K SMOKE
H HAZE
D DUST

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

JUN 1990
RICHMOND, VA

13740

| HOUR L.S.T. | SKY COVER (TENTHS) | | VISI-BILITY | | WEATHER | TEMPERATURE | | | | WIND | | SKY COVER (TENTHS) | | VISI-BILITY | | WEATHER | TEMPERATURE | | | | WIND | |
|-------------|-----------------------------|-------------|-------------|--------|---------|-------------|--------------|----------------|-----------|---------------|-----------------------------|--------------------|------------|-------------|-------------|---------|--------------|----------------|-----------|---------------|------|----|
| | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE | AIR OF | | WET BULB OF | DEW POINT OF | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE | AIR OF | WET BULB OF | | DEW POINT OF | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) | | |
| JUN 19th | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 10 | 3 | 3 | F | | 71 | 69 | 67 | 93 | 23 | 9 | 0 | UNL | 7 | | | 67 | 61 | 57 | 70 | 35 | 8 |
| 04 | 2 | UNL | 3 | F | | 69 | 68 | 67 | 93 | 00 | 0 | 0 | UNL | 7 | | | 63 | 59 | 56 | 78 | 04 | 6 |
| 07 | 10 | 4 | 1 | F | | 72 | 70 | 69 | 90 | 30 | 5 | 0 | UNL | 6 | H | | 67 | 60 | 55 | 66 | 03 | 10 |
| 10 | 0 | UNL | 5 | H | | 83 | 73 | 68 | 61 | 29 | 7 | 1 | UNL | 6 | H | | 75 | 65 | 58 | 56 | 36 | 8 |
| 13 | 5 | UNL | 7 | H | | 90 | 69 | 57 | 33 | 29 | 10 | 6 | UNL | 7 | | | 82 | 66 | 56 | 41 | 36 | 5 |
| 16 | 8 | 65 | 7 | | | 86 | 69 | 59 | 40 | 29 | 11 | 7 | UNL | 8 | | | 84 | 67 | 57 | 40 | 23 | 9 |
| 19 | 9 | 60 | 8 | | | 74 | 69 | 66 | 76 | 06 | 7 | 10 | 120 | 8 | | | 79 | 67 | 60 | 52 | 21 | 6 |
| 22 | 2 | UNL | 8 | | | 70 | 66 | 64 | 81 | 34 | 6 | 10 | 90 | 8 | | | 73 | 67 | 64 | 74 | 20 | 5 |
| JUN 20th | | | | | | | | | | | | | | | | | | | | | | |
| JUN 21st | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 10 | 3 | 3 | F | | 71 | 69 | 67 | 93 | 23 | 9 | 0 | UNL | 7 | | | 67 | 61 | 57 | 70 | 35 | 8 |
| 04 | 2 | UNL | 3 | F | | 69 | 68 | 67 | 93 | 00 | 0 | 0 | UNL | 7 | | | 63 | 59 | 56 | 78 | 04 | 6 |
| 07 | 10 | 4 | 1 | F | | 72 | 70 | 69 | 90 | 30 | 5 | 0 | UNL | 6 | H | | 67 | 60 | 55 | 66 | 03 | 10 |
| 10 | 0 | UNL | 5 | H | | 83 | 73 | 68 | 61 | 29 | 7 | 1 | UNL | 6 | H | | 75 | 65 | 58 | 56 | 36 | 8 |
| 13 | 5 | UNL | 7 | H | | 90 | 69 | 57 | 33 | 29 | 10 | 6 | UNL | 7 | | | 82 | 66 | 56 | 41 | 36 | 5 |
| 16 | 8 | 65 | 7 | | | 86 | 69 | 59 | 40 | 29 | 11 | 7 | UNL | 8 | | | 84 | 67 | 57 | 40 | 23 | 9 |
| 19 | 9 | 60 | 8 | | | 74 | 69 | 66 | 76 | 06 | 7 | 10 | 120 | 8 | | | 79 | 67 | 60 | 52 | 21 | 6 |
| 22 | 2 | UNL | 8 | | | 70 | 66 | 64 | 81 | 34 | 6 | 10 | 90 | 8 | | | 73 | 67 | 64 | 74 | 20 | 5 |
| JUN 22nd | | | | | | | | | | | | | | | | | | | | | | |
| JUN 23rd | | | | | | | | | | | | | | | | | | | | | | |
| JUN 24th | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 71 | 68 | 66 | 84 | 20 | 4 | 5 | UNL | 7 | | | 71 | 69 | 68 | 90 | 19 | 7 |
| 04 | 0 | UNL | 6 | | H | 66 | 64 | 63 | 90 | 18 | 4 | 1 | UNL | 3 | FH | | 71 | 70 | 69 | 93 | 20 | 6 |
| 07 | 8 | UNL | 5 | | FH | 74 | 70 | 68 | 82 | 29 | 3 | 10 | 150 | 3 | FH | | 74 | 72 | 71 | 90 | 23 | 7 |
| 10 | 3 | UNL | 3 | | H | 86 | 70 | 62 | 45 | 11 | 7 | 9 | 120 | 5 | H | | 81 | 74 | 71 | 72 | 22 | 6 |
| 13 | 8 | 250 | 5 | | H | 90 | 73 | 64 | 42 | 17 | 13 | 8 | 75 | 5 | H | | 85 | 71 | 63 | 48 | 25 | 11 |
| 16 | 10 | 100 | 7 | | | 72 | 69 | 68 | 87 | 18 | 7 | 3 | UNL | 7 | | | 86 | 67 | 56 | 36 | 24 | 17 |
| 19 | 10 | 65 | 7 | | | 73 | 71 | 70 | 90 | 15 | 9 | 3 | UNL | 7 | | | 83 | 65 | 54 | 37 | 26 | 8 |
| 22 | 10 | 200 | 7 | | | 71 | 70 | 69 | 93 | 18 | 8 | 0 | UNL | 7 | | | 70 | 63 | 58 | 66 | 24 | 6 |
| JUN 25th | | | | | | | | | | | | | | | | | | | | | | |
| JUN 26th | | | | | | | | | | | | | | | | | | | | | | |
| JUN 27th | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 0 | UNL | 8 | | | 63 | 59 | 55 | 75 | 00 | 0 | 0 | UNL | 8 | | | 64 | 62 | 61 | 90 | 12 | 5 |
| 04 | 0 | UNL | 8 | | | 58 | 56 | 54 | 87 | 14 | 4 | 2 | UNL | 8 | | | 64 | 62 | 60 | 87 | 11 | 4 |
| 07 | 0 | UNL | 8 | | | 70 | 60 | 55 | 66 | 28 | 5 | 0 | UNL | 7 | | | 71 | 66 | 63 | 76 | 21 | 3 |
| 10 | 0 | UNL | 8 | | | 79 | 63 | 52 | 39 | 00 | 0 | 3 | UNL | 7 | | | 83 | 70 | 62 | 49 | 20 | 5 |
| 13 | 2 | UNL | 8 | | | 82 | 63 | 50 | 33 | 33 | 5 | 5 | UNL | 7 | | | 89 | 68 | 54 | 30 | 24 | 7 |
| 16 | 5 | UNL | 8 | | | 83 | 63 | 49 | 31 | 19 | 6 | 10 | UNL | 7 | | | 89 | 68 | 55 | 32 | 21 | 8 |
| 19 | 2 | UNL | 8 | | | 81 | 64 | 53 | 38 | 06 | 5 | 10 | UNL | 7 | | | 79 | 70 | 65 | 62 | 15 | 11 |
| 22 | 0 | UNL | 8 | | | 69 | 64 | 60 | 73 | 15 | 3 | 8 | UNL | 7 | | | 74 | 68 | 64 | 71 | 17 | 7 |
| JUN 28th | | | | | | | | | | | | | | | | | | | | | | |
| JUN 29th | | | | | | | | | | | | | | | | | | | | | | |
| JUN 30th | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 3 | UNL | 6 | | H | 72 | 68 | 66 | 82 | 06 | 5 | 0 | UNL | 5 | H | | 72 | 69 | 68 | 87 | 00 | 0 |
| 04 | 0 | UNL | 6 | | H | 70 | 67 | 65 | 84 | 20 | 3 | 1 | UNL | 3 | FH | | 69 | 68 | 67 | 93 | 20 | 4 |
| 07 | 0 | UNL | 5 | | H | 75 | 70 | 67 | 76 | 34 | 6 | 5 | UNL | 3 | FH | | 76 | 72 | 70 | 82 | 26 | 4 |
| 10 | 6 | UNL | 5 | | H | 84 | 71 | 64 | 51 | 05 | 7 | 0 | UNL | 5 | H | | 90 | 76 | 69 | 50 | 24 | 10 |
| 13 | 4 | UNL | 5 | | H | 90 | 72 | 63 | 41 | 03 | 5 | 7 | UNL | 6 | H | | 95 | 71 | 58 | 29 | 28 | 12 |
| 16 | 3 | UNL | 5 | | H | 91 | 72 | 62 | 38 | 11 | 7 | 5 | UNL | 6 | H | | 97 | 73 | 60 | 29 | 24 | 15 |
| 19 | 7 | UNL | 5 | | H | 87 | 72 | 65 | 48 | 06 | 6 | 2 | UNL | 6 | H | | 89 | 72 | 63 | 42 | 23 | 10 |
| 22 | 3 | UNL | 5 | | H | 78 | 72 | 69 | 74 | 14 | 6 | 1 | UNL | 6 | H | | 83 | 71 | 64 | 53 | 25 | 9 |

SUMMARY BY HOURS

| HOUR L.S.T. | SKY COVER (TENTHS) | AVERAGES | | | | | | RESULTANT WIND | |
|-------------|--------------------|---------------------------|-------------|-------------|--------------|----------------|------------------|----------------|-------------|
| | | STATION PRESSURE (INCHES) | TEMPERATURE | | | REL HUMIDITY % | WIND SPEED (MPH) | DIRECTION | SPEED (MPH) |
| | | | AIR TEMP OF | WET BULB OF | DEW POINT OF | | | | |
| 01 | 3 | 29.820 | 67 | 63 | 60 | 80 | 7.7 | 20 | 3.0 |
| 04 | 3 | 29.810 | 65 | 62 | 60 | 84 | 6.3 | 21 | 2.9 |
| 07 | 4 | 29.840 | 70 | 65 | 62 | 75 | 7.7 | 25 | 3.1 |
| 10 | 4 | 29.840 | 80 | 68 | 61 | 53 | 9.9 | 27 | 4.3 |
| 13 | 6 | 29.810 | 85 | 69 | 59 | 43 | 11.2 | 26 | 5.2 |
| 16 | 6 | 29.780 | 84 | 69 | 60 | 46 | 11.9 | 23 | 4.9 |
| 19 | 6 | 29.785 | 78 | 68 | 62 | 59 | 8.5 | 18 | 2.3 |
| 22 | 5 | 29.810 | 71 | 65 | 62 | 74 | 7.4 | 19 | 2.8 |

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUN 1990
RICHMOND, VA

13740

| DATE | A.M. HOUR ENDING AT | | | | | | | | | | | | P.M. HOUR ENDING AT | | | | | | | | | | | | DATE |
|------|---------------------|------|---|---|---|---|---|---|---|----|----|----|---------------------|---|---|---|---|---|---|---|---|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 01 | | | | | | | | | | | | | | | | | | | | | | | | 01 | |
| 02 | | | | | | | | | | | | | | | | | | | | | | | | | 02 |
| 03 | | | | | | | | | | | | | | | | | | | | | | | | | 03 |
| 04 | | | | | | | | | | | | | | | | | | | | | | | | | 04 |
| 05 | | | | | | | | | | | | | | | | | | | | | | | | | 05 |
| 06 | | | | | | | | | | | | | | | | | | | | | | | | | 06 |
| 07 | | | | | | | | | | | | | | | | | | | | | | | | | 07 |
| 08 | | | | | | | | | | | | | | | | | | | | | | | | | 08 |
| 09 | | | | | | | | | | | | | | | | | | | | | | | | | 09 |
| 10 | T | T | | | | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 21 | 0.01 | 0.03 | | | | | | | | | | | | | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | 30 |

MAXIMUM SHORT DURATION PRECIPITATION

| TIME PERIOD (MINUTES) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRECIPITATION (INCHES) | 0.09 | 0.16 | 0.18 | 0.19 | 0.20 | 0.25 | 0.30 | 0.33 | 0.35 | 0.35 | 0.35 | 0.35 |
| ENDED: DATE | 30 | 30 | 30 | 30 | 30 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| ENDED: TIME | 1635 | 1635 | 1635 | 1635 | 1635 | 1757 | 1759 | 1827 | 1838 | 1900 | 1900 | 1900 |

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

VALIDATED BY:
CHARLOTTE WARD

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