

DEC 1985  
 RICHMOND, VIRGINIA  
 NAT'L WEA SER OFC  
 BOX A-63 BYRD AIRPORT

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# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

R.E. BYRD INTERNATIONAL AP.



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

DEC 1985  
 RICHMOND, VIRGINIA

| DATE           | TEMPERATURE °F |                |         | DEGREE DAYS BASE 65°F |                   | WEATHER TYPES                  | SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES | PRECIPITATION                    |                                  | AVERAGE STATION PRESSURE IN INCHES | WIND (M.P.H.)             |                            |                             | SUNSHINE          |                 | SKY COVER (TENTHS) |              |               |                           |                   |                      |          |  |
|----------------|----------------|----------------|---------|-----------------------|-------------------|--------------------------------|--|----------------------------------|----------------------------------|------------------------------------|---------------------------|----------------------------|-----------------------------|-------------------|-----------------|--------------------|--------------|---------------|---------------------------|-------------------|----------------------|----------|--|
|                | MAXIMUM        | MINIMUM        | AVERAGE | DEPARTURE FROM NORMAL | AVERAGE DEW POINT |                                |  | HEATING (SEASON BEGINS WITH JUL) | COOLING (SEASON BEGINS WITH JAN) |                                    | WATER EQUIVALENT (INCHES) | SNOW, ICE PELLETS (INCHES) | ELEV. 177 FEET ABOVE M.S.L. | RESULTANT DIR.    | RESULTANT SPEED | AVERAGE SPEED      | FASTEST MILE | MINUTES       | PERCENT OF TOTAL POSSIBLE | SUNRISE TO SUNSET | MIDNIGHT TO MIDNIGHT |          |  |
| 1              | 2              | 3              | 4       | 5                     | 6                 | 7A                             | 7B   | 8                                | 9                                | 10                                 | 11                        | 12                         | 13                          | 14                | 15              | 16                 | 17           | 18            | 19                        | 20                | 21                   | 22       |  |
| 01             | 50             | 46             | 48      | 4                     | 48                | 17                             | 0  | 2                                | 0                                | 0.0                                | 0.0                       | 29.805                     | 34                          | 4.7               | 8.4             | 15                 | 15           |               |                           | 10                | 10                   | 01       |  |
| 02             | 58             | 30             | 44      | 1                     | 30                | 21                             | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 29.575                     | 27                          | 15.5              | 18.3            | 28                 | 28           |               |                           | 0                 | 3                    | 02       |  |
| 03             | 39             | 27             | 33      | -10                   | 13                | 32                             | 0  | 0                                | 0.0                              | 0.0                                | 30.120                    | 33                         | 9.1                         | 10.4              | 18              | 30                 |              |               | 5                         | 3                 | 03                   |          |  |
| 04             | 43             | 24             | 34      | -9                    | 21                | 31                             | 0  | 0                                | 0.0                              | 0.0                                | 30.230                    | 33                         | 2.9                         | 4.4               | 12              | 27                 |              |               | 7                         | 7                 | 04                   |          |  |
| 05             | 47             | 33             | 40      | -2                    | 27                | 25                             | 0  | 8                                | 0                                | 0.0                                | 0.0                       | 30.020                     | 12                          | 2.4               | 4.4             | 8                  | 15           |               |                           | 9                 | 9                    | 05       |  |
| 06             | 45             | 28             | 37      | -5                    | 29                | 28                             | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 29.830                     | 35                          | 10.9              | 11.2            | 23                 | 36           |               |                           | 7                 | 6                    | 06       |  |
| 07             | 47             | 33             | 40      | -2                    | 27                | 25                             | 0  | 0                                | 0.0                              | 0.0                                | 30.070                    | 34                         | 4.8                         | 7.9               | 15              | 36                 |              |               | 7                         | 8                 | 07                   |          |  |
| 08             | 56             | 33             | 45      | 3                     | 30                | 20                             | 0  | 0                                | 0.0                              | 0.0                                | 29.930                    | 22                         | 5.6                         | 6.7               | 9               | 30                 |              |               | 4                         | 5                 | 08                   |          |  |
| 09             | 60             | 39             | 50      | 9                     | 34                | 15                             | 0  | 0                                | 0.0                              | 0.0                                | 30.030                    | 02                         | 0.2                         | 2.8               | 7               | 25                 |              |               | 4                         | 5                 | 09                   |          |  |
| 10             | 60             | 32             | 46      | 5                     | 38                | 19                             | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 30.150                     | 19                          | 2.6               | 3.9             | 8                  | 20           |               |                           | 4                 | 3                    | 10       |  |
| 11             | 70             | 42             | 56      | 15                    | 47                | 9                              | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 29.900                     | 22                          | 10.6              | 11.5            | 18                 | 24           | 494           | 85                        | 5                 | 6                    | 11       |  |
| 12             | 72*            | 51             | 62*     | 21                    | 53                | 3                              | 0  | 0                                | 0                                | 0.0                                | 0.0                       | 29.730                     | 26                          | 4.5               | 11.5            | 16                 | 25           | 398           | 69                        | 9                 | 10                   | 12       |  |
| 13             | 51             | 41             | 46      | 6                     | 41                | 19                             | 0  | 1                                | 0                                | 0.35                               | 0.0                       | 29.590                     | 02                          | 4.7               | 7.5             | 14                 | 01           | 61            | 11                        | 10                | 10                   | 13       |  |
| 14             | 44             | 24             | 34      | -6                    | 19                | 31                             | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 29.780                     | 33                          | 10.8              | 11.8            | 21                 | 32           | 405           | 70                        | 4                 | 5                    | 14       |  |
| 15             | 46             | 16             | 31      | -9                    | 13                | 34                             | 0  | 0                                | 0.0                              | 0.0                                | 30.015                    | 22                         | 8.3                         | 8.8               | 16              | 23                 | 510          | 89            | 2                         | 3                 | 15                   |          |  |
| 16             | 49             | 26             | 38      | -2                    | 21                | 27                             | 0  | 0                                | 0.0                              | 0.0                                | 29.920                    | 24                         | 7.9                         | 8.3               | 14              | 24                 | 575          | 100           | 1                         | 2                 | 16                   |          |  |
| 17             | 50             | 33             | 42      | 3                     | 21                | 23                             | 0  | 0                                | 0.0                              | 0.0                                | 29.850                    | 23                         | 9.0                         | 10.2              | 15              | 28                 | 575          | 100           | 1                         | 1                 | 17                   |          |  |
| 18             | 42             | 19             | 31      | -8                    | 12                | 34                             | 0  | 0                                | 0.0                              | 0.0                                | 29.965                    | 32                         | 6.9                         | 11.1              | 17              | 31                 | 345          | 60            | 8                         | 6                 | 18                   |          |  |
| 19             | 32             | 16             | 24      | -15                   | 5                 | 41                             | 0  | 0                                | 0.0                              | 0.0                                | 30.265                    | 02                         | 3.7                         | 4.5               | 10              | 02                 | 450          | 78            | 3                         | 2                 | 19                   |          |  |
| 20             | 29             | 16             | 23      | -16                   | 19                | 42                             | 0  | 1                                | 0                                | 0.10                               | 1.3                       | 30.060                     | 36                          | 2.3               | 4.3             | 8                  | 36           | 0             | 0                         | 10                | 7                    | 20       |  |
| 21             | 31             | 14             | 23      | -16                   | 12                | 42                             | 0  | 1                                | 0                                | 0.0                                | 0.0                       | 29.995                     | 31                          | 8.4               | 8.9             | 15                 | 30           | 385           | 67                        | 8                 | 4                    | 21       |  |
| 22             | 36             | 8*             | 22      | -16                   | 11                | 43                             | 0  | 1                                | 0.0                              | 0.0                                | 29.890                    | 20                         | 8.2                         | 8.7               | 17              | 20                 | 85           | 15            | 7                         | 5                 | 22                   |          |  |
| 23             | 57             | 34             | 46      | 8                     | 28                | 19                             | 0  | 0                                | 0.0                              | 0.0                                | 29.565                    | 21                         | 9.2                         | 10.2              | 16              | 28                 | 307          | 53            | 2                         | 4                 | 23                   |          |  |
| 24             | 59             | 41             | 50      | 12                    | 37                | 15                             | 0  | 0                                | 0.0                              | 0.0                                | 29.480                    | 21                         | 8.2                         | 10.2              | 15              | 23                 |              |               | 5                         | 4                 | 24                   |          |  |
| 25             | 43             | 20             | 32      | -6                    | 16                | 33                             | 0  | 0                                | 0.0                              | 0.0                                | 29.630                    | 35                         | 10.2                        | 11.3              | 17              | 02                 |              |               | 10                        | 9                 | 25                   |          |  |
| 26             | 25             | 12             | 19*     | -19                   | -2                | 46                             | 0  | 0                                | 0.0                              | 0.0                                | 29.960                    | 25                         | 7.9                         | 10.9              | 15              | 30                 |              |               | 4                         | 5                 | 26                   |          |  |
| 27             | 49             | 21             | 35      | -3                    | 14                | 30                             | 0  | 0                                | 0.0                              | 0.0                                | 29.860                    | 22                         | 12.0                        | 12.5              | 22              | 24                 | 519          | 90            | 3                         | 5                 | 27                   |          |  |
| 28             | 49             | 25             | 37      | -1                    | 17                | 28                             | 0  | 0                                | 0.0                              | 0.0                                | 29.900                    | 25                         | 6.7                         | 8.6               | 14              | 27                 | 501          | 87            | 5                         | 5                 | 28                   |          |  |
| 29             | 51             | 22             | 37      | 0                     | 16                | 28                             | 0  | 0                                | 0.0                              | 0.0                                | 29.740                    | 28                         | 5.7                         | 6.6               | 16              | 30                 | 576          | 100           | 0                         | 1                 | 29                   |          |  |
| 30             | 46             | 18             | 32      | -5                    | 10                | 33                             | 0  | 0                                | 0.0                              | 0.0                                | 29.940                    | 25                         | 4.8                         | 6.2               | 10              | 24                 | 576          | 100           | 0                         | 0                 | 30                   |          |  |
| 31             | 55             | 24             | 40      | 3                     | 21                | 25                             | 0  | 0                                | 0.13                             | 0.0                                | 29.820                    | 21                         | 10.6                        | 11.3              | 17              | 21                 | 382          | 66            | 8                         | 7                 | 31                   |          |  |
| SUM            | SUM            |                |         |                       | TOTAL             | TOTAL                          |  | NUMBER OF DAYS                   | TOTAL                            | TOTAL                              |                           | FOR THE MONTH:             |                             |                   |                 | TOTAL              | %            | SUM           | SUM                       |                   |                      |          |  |
| 1491           | 848            |                |         |                       | 838               | 0                              |  | 0.58                             | 1.3                              | 29.890                             | 27                        | 4.0                        | 8.8                         | 28                | 28              |                    |              | 162           | 160                       |                   |                      |          |  |
| AVG.           | AVG.           | AVG.           | DEP.    | AVG.                  | DEP.              | DEP.                           |  | PRECIPITATION                    | DEP.                             |                                    |                           |                            |                             | DATE: 2           | POSSIBLE        |                    |              | FOR MONTH     | AVG.                      | AVG.              |                      |          |  |
| 48.1           | 27.4           | 37.8           | -2.1    | 23.5                  | 6.0               | 0                              |  | > .01 INCH                       | 3                                | -2.81                              |                           |                            |                             |                   |                 |                    |              | 5.2           | 5.2                       |                   |                      |          |  |
| NUMBER OF DAYS |                | SEASON TO DATE |         | SNOW, ICE PELLETS     |                   | GREATEST IN 24 HOURS AND DATES |  | GREATEST DEPTH ON GROUND OF      |                                  |                                    |                           |                            |                             |                   |                 |                    |              |               |                           |                   |                      |          |  |
|                |                | TOTAL          |         | TOTAL                 |                   |                                |  | SNOW, ICE PELLETS                |                                  |                                    |                           |                            |                             |                   |                 |                    |              |               |                           |                   |                      |          |  |
|                |                | 1240           |         | 1654                  |                   |                                |  | > 1.0 INCH                       |                                  | 1                                  |                           |                            |                             |                   |                 |                    |              |               |                           |                   |                      |          |  |
|                |                | MAXIMUM TEMP.  |         | MINIMUM TEMP.         |                   |                                |  | THUNDERSTORMS                    |                                  | 0                                  |                           | PRECIPITATION              |                             | SNOW, ICE PELLETS |                 |                    |              |               |                           |                   |                      |          |  |
|                |                | ≤ 90°          |         | ≥ 32°                 |                   | ≤ 0°                           |  | HEAVY FOG                        |                                  | 1                                  |                           | 0.35                       |                             | 13                |                 | 1.3                |              | 20            |                           | 1                 |                      | 22+      |  |
|                |                | 0              |         | 4                     |                   | 20                             |  | 0                                |                                  | -266                               |                           | 318                        |                             | CLEAR             |                 | 9                  |              | PARTLY CLOUDY |                           | 13                |                      | CLOUDY 9 |  |

\* 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. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: 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). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED 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, ASHEVILLE, NORTH CAROLINA, 28801

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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. Walden*  
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

# OBSERVATIONS AT 3-HOUR INTERVALS

DEC 1985  
RICHMOND, VIRGINIA 13740

| HOUR    | L.S.T. | VISI-BILITY                 |    |             |            | TEMPERATURE |        |             |              | WIND           |           |               | SKY COVER (TENTHS) | VISI-BILITY                 |             |            |         | TEMPERATURE |             |              |                | WIND      |               |     |    |  |   |    |    |    |    |    |    |
|---------|--------|-----------------------------|----|-------------|------------|-------------|--------|-------------|--------------|----------------|-----------|---------------|--------------------|-----------------------------|-------------|------------|---------|-------------|-------------|--------------|----------------|-----------|---------------|-----|----|--|---|----|----|----|----|----|----|
|         |        | CEILING IN HUNDREDS OF FEET |    | WHOLE MILES | 16THS MILE | WEATHER     | AIR OF | WET BULB OF | DEN POINT OF | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) |                    | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE | WEATHER | AIR OF      | WET BULB OF | DEN POINT OF | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) |     |    |  |   |    |    |    |    |    |    |
|         |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| DEC 1st |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 5                           | 6  |             | 46         | 46          | 45     | 96          | 36           | 10             |           | 10            | 2                  | 1                           |             | 51         | 51      | 51          | 100         | 23           | 9              |           | 0             | UNL | 15 |  |   | 30 | 25 | 13 | 49 | 35 | 4  |
| 04      | 10     | 2                           | 2  |             | 47         | 47          | 47     | 100         | 36           | 8              |           | 9             | 10                 | 10                          |             | 54         | 53      | 52          | 93          | 22           | 12             |           | 0             | UNL | 15 |  |   | 28 | 23 | 11 | 49 | 30 | 9  |
| 07      | 10     | 3                           | 1  | 8           | 47         | 47          | 46     | 96          | 01           | 8              |           | 3             | UNL                | 12                          |             | 54         | 52      | 51          | 90          | 22           | 13             |           | 5             | UNL | 15 |  |   | 27 | 22 | 10 | 49 | 31 | 10 |
| 10      | 10     | 3                           | 0  | 12          | 48         | 48          | 47     | 96          | 36           | 8              |           | 0             | UNL                | 15                          |             | 58         | 47      | 34          | 41          | 25           | 24             |           | 7             | 80  | 15 |  |   | 31 | 25 | 12 | 45 | 30 | 16 |
| 13      | 10     | 3                           | 0  | 12          | 50         | 50          | 49     | 96          | 33           | 6              |           | 0             | UNL                | 15                          |             | 53         | 41      | 23          | 31          | 30           | 19             |           | 5             | UNL | 15 |  |   | 36 | 28 | 12 | 37 | 30 | 11 |
| 16      | 10     | 2                           | 0  | 12          | 50         | 50          | 49     | 96          | 33           | 5              |           | 0             | UNL                | 15                          |             | 47         | 35      | 14          | 26          | 29           | 20             |           | 3             | UNL | 15 |  |   | 38 | 30 | 13 | 36 | 03 | 9  |
| 19      | 10     | 1                           | 0  | 8           | 49         | 49          | 49     | 100         | 27           | 4              |           | 0             | UNL                | 15                          |             | 38         | 30      | 14          | 37          | 27           | 15             |           | 0             | UNL | 15 |  |   | 30 | 26 | 18 | 61 | 01 | 6  |
| 22      | 10     | 2                           | 2  | 8           | 49         | 49          | 49     | 100         | 15           | 8              |           | 0             | UNL                | 15                          |             | 33         | 27      | 12          | 42          | 30           | 13             |           | 0             | UNL | 15 |  |   | 28 | 25 | 18 | 66 | 01 | 6  |
| DEC 2nd |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 2                           | 1  | 8           | LF         |             |        |             |              |                |           |               |                    |                             |             | 51         | 51      | 51          | 100         | 23           | 9              |           | 0             | UNL | 15 |  |   | 30 | 25 | 13 | 49 | 35 | 4  |
| 04      | 10     | 10                          | 10 |             | 54         | 53          | 52     | 93          | 22           | 12             |           | 9             | 10                 | 10                          |             | 54         | 53      | 52          | 93          | 22           | 12             |           | 0             | UNL | 15 |  |   | 28 | 23 | 11 | 49 | 30 | 9  |
| 07      | 10     | 3                           | 1  | 8           | 54         | 52          | 51     | 90          | 22           | 13             |           | 5             | UNL                | 15                          |             | 54         | 52      | 51          | 90          | 22           | 13             |           | 5             | UNL | 15 |  |   | 27 | 22 | 10 | 49 | 31 | 10 |
| 10      | 10     | 3                           | 0  | 12          | 58         | 47          | 34     | 41          | 25           | 24             |           | 7             | 80                 | 15                          |             | 58         | 47      | 34          | 41          | 25           | 24             |           | 7             | 80  | 15 |  |   | 31 | 25 | 12 | 45 | 30 | 16 |
| 13      | 10     | 3                           | 0  | 12          | 53         | 41          | 23     | 31          | 30           | 19             |           | 5             | UNL                | 15                          |             | 53         | 41      | 23          | 31          | 30           | 19             |           | 5             | UNL | 15 |  |   | 36 | 28 | 12 | 37 | 30 | 11 |
| 16      | 10     | 2                           | 0  | 12          | 47         | 35          | 14     | 26          | 29           | 20             |           | 3             | UNL                | 15                          |             | 47         | 35      | 14          | 26          | 29           | 20             |           | 3             | UNL | 15 |  |   | 38 | 30 | 13 | 36 | 03 | 9  |
| 19      | 10     | 1                           | 0  | 8           | 38         | 30          | 14     | 37          | 27           | 15             |           | 0             | UNL                | 15                          |             | 38         | 30      | 14          | 37          | 27           | 15             |           | 0             | UNL | 15 |  |   | 30 | 26 | 18 | 61 | 01 | 6  |
| 22      | 10     | 2                           | 2  | 8           | 33         | 27          | 12     | 42          | 30           | 13             |           | 0             | UNL                | 15                          |             | 33         | 27      | 12          | 42          | 30           | 13             |           | 0             | UNL | 15 |  |   | 28 | 25 | 18 | 66 | 01 | 6  |
| DEC 3rd |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 120                         | 15 |             | 30         | 26          | 17     | 58          | 35           | 7              |           | 9             | 250                | 10                          |             | 35         | 32      | 28          | 76          | 00           | 0              |           | 9             | UNL | 10 |  |   | 34 | 33 | 30 | 85 | 35 | 4  |
| 04      | 0      | UNL                         | 15 |             | 27         | 24          | 19     | 72          | 02           | 4              |           | 10            | 80                 | 10                          |             | 36         | 31      | 22          | 57          | 09           | 4              |           | 2             | UNL | 7  |  |   | 30 | 29 | 28 | 92 | 00 | 0  |
| 07      | 3      | UNL                         | 15 |             | 25         | 23          | 20     | 81          | 35           | 5              |           | 10            | 80                 | 10                          |             | 36         | 32      | 25          | 64          | 16           | 4              |           | 0             | UNL | 5  |  | F | 30 | 29 | 28 | 92 | 36 | 6  |
| 10      | 8      | UNL                         | 15 |             | 33         | 29          | 21     | 61          | 02           | 4              |           | 10            | 55                 | 7                           |             | 39         | 35      | 28          | 65          | 17           | 5              |           | 2             | UNL | 8  |  |   | 40 | 37 | 33 | 76 | 01 | 9  |
| 13      | 7      | UNL                         | 15 |             | 41         | 34          | 21     | 45          | 26           | 6              |           | 10            | 70                 | 6                           |             | 43         | 37      | 27          | 53          | 15           | 5              |           | 7             | 23  | 10 |  |   | 45 | 38 | 29 | 54 | 36 | 20 |
| 16      | 9      | UNL                         | 15 |             | 42         | 33          | 17     | 36          | 28           | 6              |           | 6             | UNL                | 8                           |             | 47         | 40      | 29          | 50          | 12           | 4              |           | 8             | 30  | 8  |  |   | 44 | 37 | 26 | 49 | 35 | 13 |
| 19      | 4      | UNL                         | 15 |             | 34         | 30          | 23     | 64          | 00           | 0              |           | 10            | 100                | 15                          |             | 44         | 37      | 27          | 51          | 01           | 3              |           | 8             | 30  | 15 |  |   | 41 | 35 | 26 | 55 | 35 | 13 |
| 22      | 7      | UNL                         | 15 |             | 33         | 30          | 25     | 73          | 00           | 0              |           | 10            | 80                 | 15                          |             | 40         | 36      | 30          | 68          | 04           | 4              |           | 5             | UNL | 15 |  |   | 40 | 35 | 28 | 62 | 35 | 11 |
| DEC 4th |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 120                         | 15 |             | 30         | 26          | 17     | 58          | 35           | 7              |           | 9             | 250                | 10                          |             | 35         | 32      | 28          | 76          | 00           | 0              |           | 9             | UNL | 10 |  |   | 34 | 33 | 30 | 85 | 35 | 4  |
| 04      | 0      | UNL                         | 15 |             | 27         | 24          | 19     | 72          | 02           | 4              |           | 10            | 80                 | 10                          |             | 36         | 31      | 22          | 57          | 09           | 4              |           | 2             | UNL | 7  |  |   | 30 | 29 | 28 | 92 | 00 | 0  |
| 07      | 3      | UNL                         | 15 |             | 25         | 23          | 20     | 81          | 35           | 5              |           | 10            | 80                 | 10                          |             | 36         | 32      | 25          | 64          | 16           | 4              |           | 0             | UNL | 5  |  | F | 30 | 29 | 28 | 92 | 36 | 6  |
| 10      | 8      | UNL                         | 15 |             | 33         | 29          | 21     | 61          | 02           | 4              |           | 10            | 55                 | 7                           |             | 39         | 35      | 28          | 65          | 17           | 5              |           | 2             | UNL | 8  |  |   | 40 | 37 | 33 | 76 | 01 | 9  |
| 13      | 7      | UNL                         | 15 |             | 41         | 34          | 21     | 45          | 26           | 6              |           | 10            | 70                 | 6                           |             | 43         | 37      | 27          | 53          | 15           | 5              |           | 7             | 23  | 10 |  |   | 45 | 38 | 29 | 54 | 36 | 20 |
| 16      | 9      | UNL                         | 15 |             | 42         | 33          | 17     | 36          | 28           | 6              |           | 6             | UNL                | 8                           |             | 47         | 40      | 29          | 50          | 12           | 4              |           | 8             | 30  | 8  |  |   | 44 | 37 | 26 | 49 | 35 | 13 |
| 19      | 4      | UNL                         | 15 |             | 34         | 30          | 23     | 64          | 00           | 0              |           | 10            | 100                | 15                          |             | 44         | 37      | 27          | 51          | 01           | 3              |           | 8             | 30  | 15 |  |   | 41 | 35 | 26 | 55 | 35 | 13 |
| 22      | 7      | UNL                         | 15 |             | 33         | 30          | 25     | 73          | 00           | 0              |           | 10            | 80                 | 15                          |             | 40         | 36      | 30          | 68          | 04           | 4              |           | 5             | UNL | 15 |  |   | 40 | 35 | 28 | 62 | 35 | 11 |
| DEC 5th |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 120                         | 15 |             | 30         | 26          | 17     | 58          | 35           | 7              |           | 9             | 250                | 10                          |             | 35         | 32      | 28          | 76          | 00           | 0              |           | 9             | UNL | 10 |  |   | 34 | 33 | 30 | 85 | 35 | 4  |
| 04      | 0      | UNL                         | 15 |             | 27         | 24          | 19     | 72          | 02           | 4              |           | 10            | 80                 | 10                          |             | 36         | 31      | 22          | 57          | 09           | 4              |           | 2             | UNL | 7  |  |   | 30 | 29 | 28 | 92 | 00 | 0  |
| 07      | 3      | UNL                         | 15 |             | 25         | 23          | 20     | 81          | 35           | 5              |           | 10            | 80                 | 10                          |             | 36         | 32      | 25          | 64          | 16           | 4              |           | 0             | UNL | 5  |  | F | 30 | 29 | 28 | 92 | 36 | 6  |
| 10      | 8      | UNL                         | 15 |             | 33         | 29          | 21     | 61          | 02           | 4              |           | 10            | 55                 | 7                           |             | 39         | 35      | 28          | 65          | 17           | 5              |           | 2             | UNL | 8  |  |   | 40 | 37 | 33 | 76 | 01 | 9  |
| 13      | 7      | UNL                         | 15 |             | 41         | 34          | 21     | 45          | 26           | 6              |           | 10            | 70                 | 6                           |             | 43         | 37      | 27          | 53          | 15           | 5              |           | 7             | 23  | 10 |  |   | 45 | 38 | 29 | 54 | 36 | 20 |
| 16      | 9      | UNL                         | 15 |             | 42         | 33          | 17     | 36          | 28           | 6              |           | 6             | UNL                | 8                           |             | 47         | 40      | 29          | 50          | 12           | 4              |           | 8             | 30  | 8  |  |   | 44 | 37 | 26 | 49 | 35 | 13 |
| 19      | 4      | UNL                         | 15 |             | 34         | 30          | 23     | 64          | 00           | 0              |           | 10            | 100                | 15                          |             | 44         | 37      | 27          | 51          | 01           | 3              |           | 8             | 30  | 15 |  |   | 41 | 35 | 26 | 55 | 35 | 13 |
| 22      | 7      | UNL                         | 15 |             | 33         | 30          | 25     | 73          | 00           | 0              |           | 10            | 80                 | 15                          |             | 40         | 36      | 30          | 68          | 04           | 4              |           | 5             | UNL | 15 |  |   | 40 | 35 | 28 | 62 | 35 | 11 |
| DEC 6th |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 120                         | 15 |             | 30         | 26          | 17     | 58          | 35           | 7              |           | 9             | 250                | 10                          |             | 35         | 32      | 28          | 76          | 00           | 0              |           | 9             | UNL | 10 |  |   | 34 | 33 | 30 | 85 | 35 | 4  |
| 04      | 0      | UNL                         | 15 |             | 27         | 24          | 19     | 72          | 02           | 4              |           | 10            | 80                 | 10                          |             | 36         | 31      | 22          | 57          | 09           | 4              |           | 2             | UNL | 7  |  |   | 30 | 29 | 28 | 92 | 00 | 0  |
| 07      | 3      | UNL                         | 15 |             | 25         | 23          | 20     | 81          | 35           | 5              |           | 10            | 80                 | 10                          |             | 36         | 32      | 25          | 64          | 16           | 4              |           | 0             | UNL | 5  |  | F | 30 | 29 | 28 | 92 | 36 | 6  |
| 10      | 8      | UNL                         | 15 |             | 33         | 29          | 21     | 61          | 02           | 4              |           | 10            | 55                 | 7                           |             | 39         | 35      | 28          | 65          | 17           | 5              |           | 2             | UNL | 8  |  |   | 40 | 37 | 33 | 76 | 01 | 9  |
| 13      | 7      | UNL                         | 15 |             | 41         | 34          | 21     | 45          | 26           | 6              |           | 10            | 70                 | 6                           |             | 43         | 37      | 27          | 53          | 15           | 5              |           | 7             | 23  | 10 |  |   | 45 | 38 | 29 | 54 | 36 | 20 |
| 16      | 9      | UNL                         | 15 |             | 42         | 33          | 17     | 36          | 28           | 6              |           | 6             | UNL                | 8                           |             | 47         | 40      | 29          | 50          | 12           | 4              |           | 8             | 30  | 8  |  |   | 44 | 37 | 26 | 49 | 35 | 13 |
| 19      | 4      | UNL                         | 15 |             | 34         | 30          | 23     | 64          | 00           | 0              |           | 10            | 100                | 15                          |             | 44         | 37      | 27          | 51          | 01           | 3              |           | 8             | 30  | 15 |  |   | 41 | 35 | 26 | 55 | 35 | 13 |
| 22      | 7      | UNL                         | 15 |             | 33         | 30          | 25     | 73          | 00           | 0              |           | 10            | 80                 | 15                          |             | 40         | 36      | 30          | 68          | 04           | 4              |           | 5             | UNL | 15 |  |   | 40 | 35 | 28 | 62 | 35 | 11 |
| DEC 7th |        |                             |    |             |            |             |        |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |
| 01      | 10     | 33                          | 10 |             | 41         | 37          | 30     | 65          | 36           | 13             |           | 3             | UNL                | 10                          |             | 33         | 31      | 28          | 82          | 20           | 7              |           | 10            | 75  | 15 |  |   | 45 | 41 | 35 | 68 | 00 | 0  |
| 04      | 3      | UNL                         | 10 |             | 36         | 33          | 28     | 73          | 36           | 8              |           | 3             | UNL                | 10                          |             | 34         | 33      | 30          | 85          | 20           | 7              |           | 10            | 75  | 15 |  |   | 44 | 41 | 38 | 80 | 34 | 3  |
| 07      | 10     | 33                          | 10 |             | 40         | 35          | 28     | 62          | 36           | 8              |           | 10            | 250                | 10                          |             | 35         | 33      | 30          | 82          | 20           | 7              |           | 10            | 55  | 10 |  |   | 45 | 40 | 32 | 61 | 03 | 5  |
| 10      | 8      | 25                          | 10 |             | 41         | 35          | 26     |             |              |                |           |               |                    |                             |             |            |         |             |             |              |                |           |               |     |    |  |   |    |    |    |    |    |    |

OBSERVATIONS AT 3-HOUR INTERVALS

DEC 1985  
RICHMOND, VIRGINIA 13740

| HOUR L.S.T. | SKY COVER (TENTHS) |     |    | VISI-BILITY | WEATHER | TEMPERATURE                 |             |            |        | WIND        |              | SKY COVER (TENTHS) | SKY COVER (TENTHS) |           |               | VISI-BILITY | WEATHER | TEMPERATURE |    |     |                             | WIND        |            | SKY COVER (TENTHS) | SKY COVER (TENTHS) |             |              | VISI-BILITY | WEATHER | TEMPERATURE    |           |               |    | WIND |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--------------------|-----|----|-------------|---------|-----------------------------|-------------|------------|--------|-------------|--------------|--------------------|--------------------|-----------|---------------|-------------|---------|-------------|----|-----|-----------------------------|-------------|------------|--------------------|--------------------|-------------|--------------|-------------|---------|----------------|-----------|---------------|----|------|---|-----------------------------|-------------|------------|--------|-------------|--------------|----------------|-----------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|             | 1                  | 2   | 3  |             |         | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE | AIR of | WET BULB of | DEW POINT of |                    | REL HUMIDITY %     | DIRECTION | SPEED (KNOTS) |             |         | 1           | 2  | 3   | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE |                    | AIR of             | WET BULB of | DEW POINT of |             |         | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) | 1  | 2    | 3 | CEILING IN HUNDREDS OF FEET | WHOLE MILES | 16THS MILE | AIR of | WET BULB of | DEW POINT of | REL HUMIDITY % | DIRECTION | SPEED (KNOTS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEC 19th    |                    |     |    |             |         |                             |             |            |        |             |              |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         | DEC 20th       |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DEC 21st |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01          | 1                  | UNL | 15 |             |         | 19                          | 15          | 0          | 43     | 02          | 9            | 1                  | UNL                | 10        |               |             | 17      | 16          | 12 | 81  | 00                          | 0           | 0          | UNL                | 6                  |             |              | F           | 22      | 21             | 20        | 92            | 28 | 8    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04          | 0                  | UNL | 15 |             |         | 18                          | 14          | 2          | 49     | 05          | 6            | 10                 | 250                | 8         |               |             | 20      | 19          | 15 | 81  | 00                          | 0           | 0          | UNL                | 7                  |             |              |             | 22      | 21             | 19        | 88            | 31 | 4    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07          | 7                  | 250 | 15 |             |         | 16                          | 14          | 6          | 65     | 36          | 4            | 10                 | 100                | 8         |               |             | 24      | 21          | 15 | 69  | 04                          | 5           | 0          | UNL                | 7                  |             |              |             | 22      | 20             | 15        | 74            | 32 | 8    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 6                  | UNL | 15 |             |         | 22                          | 17          | 3          | 44     | 02          | 5            | 10                 | 80                 | 8         |               |             | 28      | 24          | 14 | 56  | 35                          | 6           | 7          | UNL                | 7                  |             |              |             | 28      | 23             | 12        | 51            | 32 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 1                  | UNL | 15 |             |         | 28                          | 22          | 3          | 34     | 30          | 5            | 10                 | 2                  | 0         |               |             | 26      | 25          | 24 | 92  | 02                          | 5           | 8          | UNL                | 10                 |             |              |             | 31      | 25             | 11        | 43            | 30 | 13   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 0                  | UNL | 15 |             |         | 32                          | 25          | 5          | 32     | 02          | 6            | 10                 | 4                  | 1         |               |             | 27      | 26          | 24 | 89  | 34                          | 5           | 10         | 250                | 10                 |             |              |             | 28      | 23             | 9         | 45            | 30 | 8    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 0                  | UNL | 15 |             |         | 24                          | 20          | 8          | 50     | 00          | 0            | 10                 | 15                 | 5         |               |             | 26      | 26          | 25 | 96  | 00                          | 0           | 4          | UNL                | 10                 |             |              |             | 24      | 20             | 7         | 48            | 31 | 4    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 0                  | UNL | 10 |             |         | 20                          | 18          | 11         | 68     | 00          | 0            | 0                  | UNL                | 2         |               |             | 19      | 19          | 19 | 100 | 21                          | 3           | 0          | UNL                | 10                 |             |              |             | 20      | 17             | 9         | 62            | 27 | 5    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEC 22nd    |                    |     |    |             |         |                             |             |            |        |             |              |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         | DEC 23rd       |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DEC 24th |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01          | 0                  | UNL | 8  |             |         | 14                          | 13          | 9          | 80     | 34          | 3            | 8                  | 100                | 10        |               |             | 35      | 29          | 17 | 48  | 22                          | 10          | 6          | 60                 | 12                 |             |              |             | 48      | 41             | 31        | 52            | 20 | 8    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04          | 0                  | UNL | 8  |             |         | 9                           | 8           | 5          | 84     | 00          | 0            | 0                  | UNL                | 10        |               |             | 35      | 30          | 22 | 59  | 20                          | 8           | 0          | UNL                | 10                 |             |              |             | 46      | 40             | 32        | 58            | 22 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07          | 0                  | UNL | 8  |             |         | 9                           | 8           | 5          | 84     | 00          | 0            | 4                  | UNL                | 10        |               |             | 35      | 31          | 25 | 67  | 21                          | 10          | 3          | UNL                | 8                  |             |              |             | 42      | 41             | 40        | 93            | 20 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 3                  | UNL | 10 |             |         | 23                          | 20          | 11         | 60     | 21          | 6            | 0                  | UNL                | 15        |               |             | 42      | 36          | 28 | 58  | 22                          | 10          | 3          | UNL                | 10                 |             |              |             | 49      | 46             | 42        | 77            | 20 | 11   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 10                 | UNL | 10 |             |         | 32                          | 26          | 11         | 42     | 23          | 11           | 10                 | 40                 | 10        |               |             | 52      | 43          | 32 | 47  | 22                          | 10          | 2          | UNL                | 15                 |             |              |             | 58      | 48             | 38        | 48            | 21 | 13   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 8                  | 200 | 10 |             |         | 35                          | 29          | 15         | 44     | 21          | 11           | 1                  | UNL                | 10        |               |             | 57      | 45          | 31 | 37  | 23                          | 9           | 8          | UNL                | 15                 |             |              |             | 58      | 48             | 36        | 44            | 20 | 11   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 9                  | 100 | 10 |             |         | 31                          | 26          | 16         | 54     | 19          | 10           | 1                  | 60                 | 10        |               |             | 51      | 42          | 31 | 47  | 19                          | 9           | 8          | UNL                | 15                 |             |              |             | 44      | 40             | 35        | 71            | 16 | 4    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 9                  | 100 | 10 |             |         | 34                          | 28          | 16         | 48     | 20          | 12           | 10                 | 60                 | 12        |               |             | 47      | 40          | 31 | 54  | 19                          | 6           | 5          | UNL                | 15                 |             |              |             | 47      | 42             | 36        | 66            | 27 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEC 25th    |                    |     |    |             |         |                             |             |            |        |             |              |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         | DEC 26th       |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DEC 27th |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01          | 8                  | 75  | 10 |             |         | 41                          | 39          | 36         | 83     | 34          | 6            | 9                  | 55                 | 12        |               |             | 19      | 14          | -6 | 32  | 31                          | 13          | 2          | UNL                | 15                 |             |              |             | 22      | 18             | 5         | 48            | 19 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04          | 10                 | 25  | 8  |             |         | 41                          | 39          | 36         | 83     | 31          | 4            | 1                  | UNL                | 15        |               |             | 15      | 11          | -7 | 37  | 30                          | 9           | 5          | UNL                | 15                 |             |              |             | 22      | 18             | 6         | 50            | 20 | 11   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07          | 10                 | 25  | 8  |             |         | 33                          | 30          | 25         | 73     | 01          | 12           | 0                  | UNL                | 15        |               |             | 12      | 9           | -4 | 48  | 28                          | 9           | 3          | UNL                | 15                 |             |              |             | 21      | 17             | 7         | 55            | 22 | 10   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 10                 | 50  | 15 |             |         | 31                          | 27          | 18         | 59     | 36          | 14           | 2                  | UNL                | 15        |               |             | 16      | 12          | -6 | 37  | 25                          | 10          | 1          | UNL                | 15                 |             |              |             | 30      | 24             | 9         | 41            | 22 | 12   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 10                 | 23  | 6  |             | S       | 30                          | 25          | 13         | 49     | 35          | 14           | 7                  | UNL                | 15        |               |             | 21      | 16          | -4 | 33  | 25                          | 9           | 2          | UNL                | 15                 |             |              |             | 46      | 36             | 18        | 33            | 24 | 16   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 8                  | 23  | 10 |             |         | 28                          | 22          | 7          | 41     | 30          | 11           | 8                  | UNL                | 15        |               |             | 22      | 17          | -1 | 36  | 23                          | 10          | 7          | 100                | 15                 |             |              |             | 48      | 37             | 20        | 33            | 24 | 12   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 9                  | 50  | 10 |             |         | 25                          | 20          | 6          | 44     | 34          | 9            | 10                 | 60                 | 15        |               |             | 23      | 18          | 1  | 38  | 20                          | 8           | 7          | 100                | 15                 |             |              |             | 40      | 33             | 20        | 45            | 21 | 5    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 8                  | 45  | 10 |             |         | 21                          | 17          | 2          | 43     | 36          | 7            | 10                 | 60                 | 15        |               |             | 25      | 19          | 2  | 37  | 21                          | 10          | 10         | 100                | 15                 |             |              |             | 40      | 33             | 20        | 45            | 21 | 10   |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEC 28th    |                    |     |    |             |         |                             |             |            |        |             |              |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         | DEC 29th       |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DEC 30th |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01          | 5                  | UNL | 15 |             |         | 34                          | 29          | 20         | 57     | 21          | 8            | 9                  | 90                 | 8         |               |             | 31      | 28          | 22 | 69  | 17                          | 4           | 0          | UNL                | 12                 |             |              |             | 33      | 27             | 12        | 42            | 32 | 6    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04          | 0                  | UNL | 15 |             |         | 30                          | 26          | 19         | 64     | 20          | 6            | 4                  | UNL                | 8         |               |             | 29      | 26          | 20 | 69  | 00                          | 0           | 0          | UNL                | 12                 |             |              |             | 29      | 24             | 10        | 45            | 30 | 5    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07          | 0                  | UNL | 15 |             |         | 32                          | 28          | 19         | 59     | 25          | 6            | 1                  | UNL                | 7         |               |             | 23      | 22          | 18 | 81  | 00                          | 0           | 0          | UNL                | 12                 |             |              |             | 20      | 18             | 13        | 74            | 25 | 3    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 2                  | UNL | 15 |             |         | 45                          | 36          | 20         | 37     | 27          | 12           | 0                  | UNL                | 7         |               |             | 39      | 32          | 20 | 47  | 24                          | 4           | 0          | UNL                | 12                 |             |              |             | 35      | 27             | 8         | 32            | 28 | 8    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 10                 | 250 | 15 |             |         | 47                          | 36          | 18         | 31     | 27          | 12           | 0                  | UNL                | 15        |               |             | 49      | 36          | 11 | 22  | 27                          | 12          | 0          | UNL                | 10                 |             |              |             | 43      | 31             | 5         | 21            | 24 | 9    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 5                  | UNL | 15 |             |         | 47                          | 36          | 15         | 28     | 25          | 7            | 0                  | UNL                | 15        |               |             | 50      | 37          | 13 | 23  | 30                          | 14          | 0          | UNL                | 15                 |             |              |             | 45      | 33             | 7         | 21            | 22 | 7    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 9                  | 100 | 10 |             |         | 40                          | 31          | 11         | 30     | 29          | 5            | 0                  | UNL                | 15        |               |             | 42      | 32          | 14 | 32  | 30                          | 8           | 0          | UNL                | 10                 |             |              |             | 30      | 25             | 12        | 47            | 20 | 4    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 10                 | 90  | 10 |             |         | 33                          | 28          | 19         | 56     | 18          | 5            | 0                  | UNL                | 15        |               |             | 37      | 29          | 14 | 39  | 29                          | 8           | 0          | UNL                | 10                 |             |              |             | 28      | 23             | 10        | 47            | 19 | 6    |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEC 31st    |                    |     |    |             |         |                             |             |            |        |             |              |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01          | 0                  | UNL | 15 |             |         | 26                          | 22          | 12         | 55     | 18          | 7            |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04          | 3                  | UNL | 15 |             |         | 26                          | 22          | 13         | 58     | 19          | 7            |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07          | 7                  | UNL | 15 |             |         | 29                          | 24          | 14         | 53     | 20          | 9            |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 4                  | UNL | 15 |             |         | 40                          | 32          | 15         | 36     | 20          | 12           |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 8                  | UNL | 10 |             |         | 54                          | 40          | 17         | 23     | 23          | 14           |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 10                 | 90  | 10 |             |         | 48                          | 40          | 28         | 46     | 21          | 12           |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 10                 | 40  | 7  |             |         | 42                          | 37          | 30         | 63     | 25          | 8            |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 10                 | 33  | 7  |             |         | 41                          | 37          | 31         | 68     | 21          | 11           |                    |                    |           |               |             |         |             |    |     |                             |             |            |                    |                    |             |              |             |         |                |           |               |    |      |   |                             |             |            |        |             |              |                |           |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SUMMARY BY HOURS

| HOUR L.S.T. | SKY COVER (TENTHS) | STATION PRESSURE (INCHES) | AVERAGES    |             |              |                  | RESULTANT WIND |             |     |
|-------------|--------------------|---------------------------|-------------|-------------|--------------|------------------|----------------|-------------|-----|
|             |                    |                           | TEMPERATURE |             |              | WIND SPEED (MPH) | DIRECTION      | SPEED (MPH) |     |
|             |                    |                           | AIR TEMP of | WET BULB of | DEW POINT of |                  |                |             |     |
| 01          | 5                  | 29.890                    | 35          | 31          | 24           | 6.8              | 7.5            | 27          | 2.6 |
| 04          | 4                  | 29.890                    | 33          | 30          | 24           | 7.1              | 7.1            | 25          | 2.6 |
| 07          | 5                  | 29.905                    | 32          | 29          | 24           | 7.4              | 7.7            | 27          | 2.6 |
| 10          | 5                  | 29.940                    | 39          | 34          | 24           | 5.6              | 10.7           | 28          | 5.4 |
| 13          | 6                  | 29.880                    | 45          | 37          | 23           | 4.4              | 12.3           | 28          | 8.2 |
| 16          | 6                  | 29.860                    | 45          | 37          | 22           | 4.3              | 10.4           | 27          | 6.0 |
| 19          | 6                  | 29.885                    | 39          | 33          | 23           | 5.6              | 7.0            | 25          | 2.4 |
| 22          | 5                  | 29.890                    | 36          | 32          | 24           | 6.2              | 7.9            | 23          | 3.6 |

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DEC 1985  
RICHMOND, VIRGINIA

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   | T                   | T |      |      | T    | T    | T    | T    | T | T  | T  |      | T                   | T    | T    | T    | T    | T    | T | T | T    | T  | T    | 02 |      |
| 03   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 03 |      |
| 04   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 04 |      |
| 05   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      | T |   |      |    |      | 05 |      |
| 06   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 06 |      |
| 07   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 07 |      |
| 08   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 08 |      |
| 09   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 09 |      |
| 10   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 10 |      |
| 11   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 11 |      |
| 12   |                     | T |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   | T    |    |      | 12 |      |
| 13   |                     | T | 0.03 | 0.02 | 0.05 | 0.08 | 0.12 | 0.05 | T | T  | T  |      | T                   | T    | T    |      | T    | T    | T | T |      | T  | T    | 13 |      |
| 14   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 14 |      |
| 15   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 15 |      |
| 16   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 16 |      |
| 17   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 17 |      |
| 18   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 18 |      |
| 19   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 19 |      |
| 20   |                     |   |      |      |      |      |      |      |   |    | T  | 0.02 | 0.04                | 0.02 | 0.01 | 0.01 | T    | T    |   |   |      |    |      | 20 |      |
| 21   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 21 |      |
| 22   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 22 |      |
| 23   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 23 |      |
| 24   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 24 |      |
| 25   |                     |   |      |      | T    |      |      | T    | T |    | T  | T    | T                   |      |      |      |      |      |   |   |      |    |      | 25 |      |
| 26   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 26 |      |
| 27   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 27 |      |
| 28   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 28 |      |
| 29   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 29 |      |
| 30   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      |      |      |      |      |   |   |      |    |      | 30 |      |
| 31   |                     |   |      |      |      |      |      |      |   |    |    |      |                     |      | T    | 0.01 | 0.01 | 0.01 | T | T | 0.02 | T  | 0.08 | 31 |      |

MAXIMUM SHORT DURATION PRECIPITATION

| TIME PERIOD (MINUTES)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRECIPITATION (INCHES) | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.12 | 0.14 | 0.16 | 0.20 | 0.24 | 0.27 |
| ENDED: DATE            | 31   | 31   | 31   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   |
| ENDED: TIME            | 2342 | 2342 | 2342 | 0715 | 0715 | 0715 | 0659 | 0715 | 0715 | 0659 | 0715 | 0715 |

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.

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