

1997

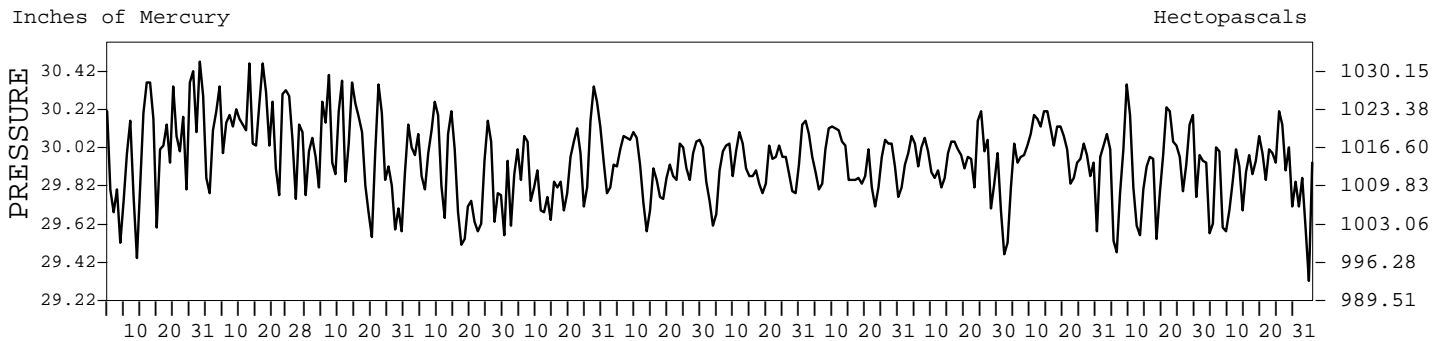
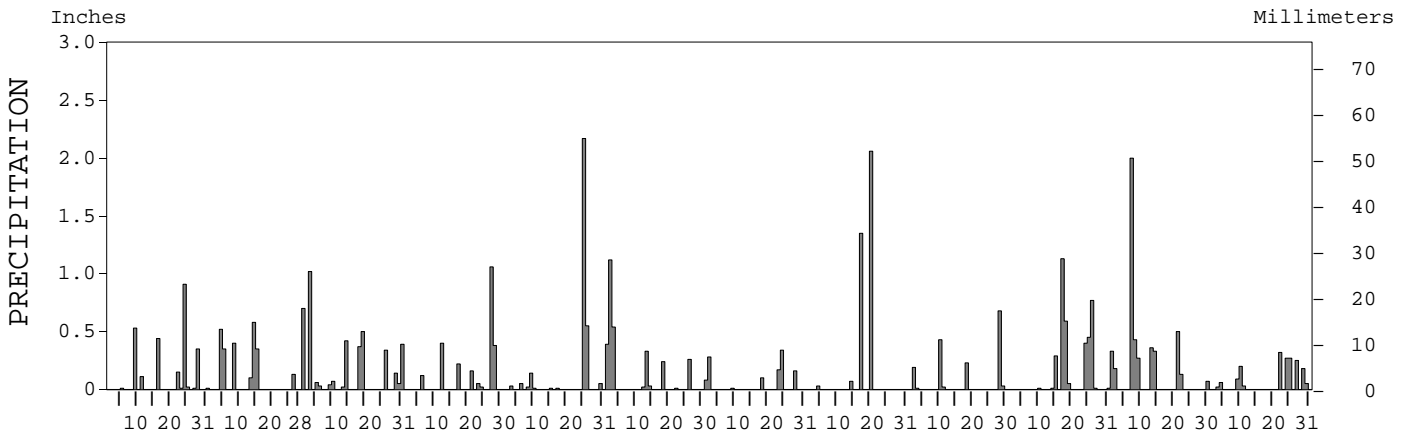
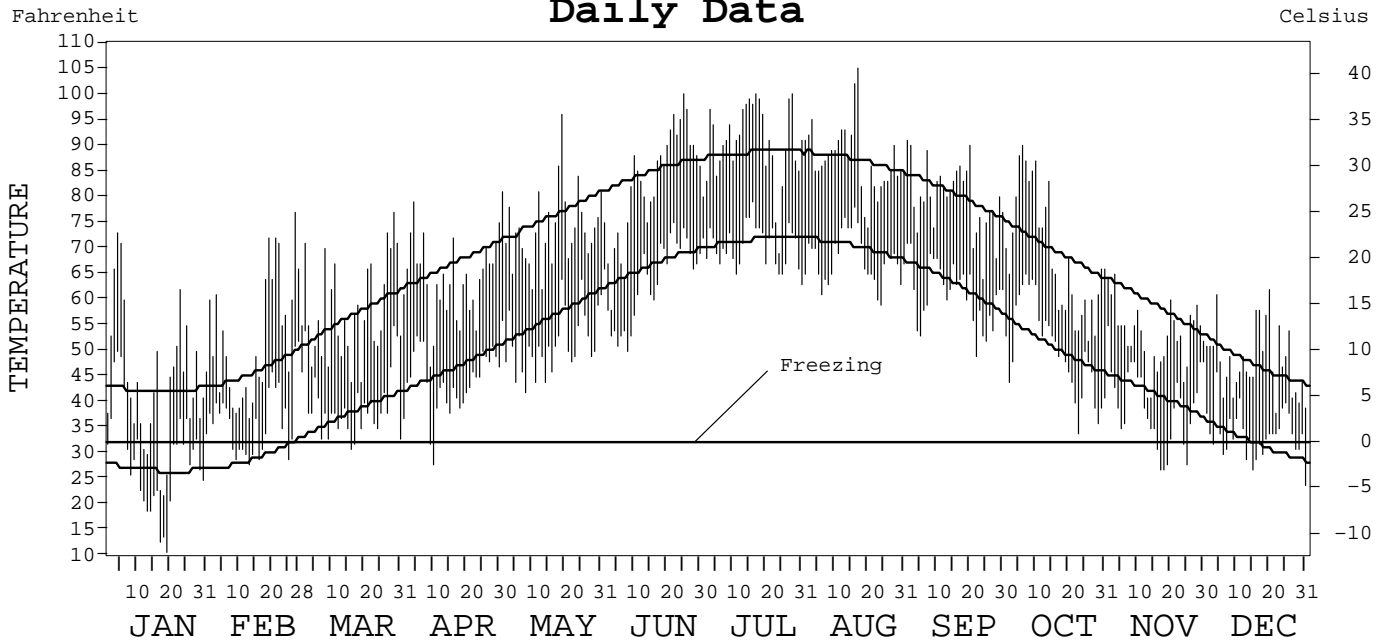
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



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## Daily Data



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NATIONAL CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

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# METEOROLOGICAL DATA FOR 1997

## WASHINGTON NAT'L AP, DC (DCA)

LATITUDE: 38° 51' 54" N      LONGITUDE: 77° 02' 03" W      ELEVATION (FT): GRND: 10      BARO: 75      TIME ZONE: EASTERN (UTC+ 5)      WBAN: 13743

| ELEMENT              |                               | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |    |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F       | MEAN DAILY MAXIMUM            | 44.5  | 52.8  | 57.9  | 63.9  | 74.0  | 82.6  | 90.3  | 87.3  | 79.8  | 68.9  | 53.1  | 48.2   | 66.9      |    |
|                      | HIGHEST DAILY MAXIMUM         | 73    | 77    | 77    | 79    | 96    | 100   | 100   | 105   | 91    | 90    | 65    | 62     | 105       |    |
|                      | DATE OF OCCURRENCE            | 04    | 27    | 29    | 04    | 19    | 25    | 28+   | 17    | 01    | 06    | 03    | 20     | AUG 17    |    |
|                      | MEAN DAILY MINIMUM            | 29.4  | 36.6  | 39.5  | 44.0  | 51.8  | 63.6  | 70.4  | 67.9  | 61.1  | 50.3  | 39.2  | 33.8   | 49.0      |    |
|                      | LOWEST DAILY MINIMUM          | 11    | 28    | 31    | 28    | 42    | 50    | 63    | 59    | 49    | 34    | 27    | 24     | 11        |    |
|                      | DATE OF OCCURRENCE            | 19    | 13    | 16    | 10    | 08    | 08    | 31    | 24    | 22    | 23    | 18+   | 31     | JAN 19    |    |
|                      | AVERAGE DRY BULB              | 37.0  | 44.7  | 48.7  | 54.0  | 62.9  | 73.1  | 80.4  | 77.6  | 70.5  | 59.6  | 46.2  | 41.0   | 58.0      |    |
|                      | MEAN WET BULB                 | 32.1  | 38.9  | 42.2  | 46.3  | 54.1  | 65.4  | 70.2  | 68.2  | 62.9  | 53.2  | 42.1  | 36.3   | 51.0      |    |
|                      | MEAN DEW POINT                | 23.4  | 31.1  | 33.8  | 36.4  | 45.5  | 60.9  | 64.3  | 63.1  | 57.9  | 47.7  | 36.0  | 29.7   | 44.2      |    |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | MAXIMUM ≥ 90°                 | 0     | 0     | 0     | 0     | 1     | 9     | 18    | 10    | 3     | 1     | 0     | 0      | 0         | 42 |
|                      | MAXIMUM ≤ 32°                 | 5     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         | 5  |
|                      | MINIMUM ≤ 32°                 | 21    | 10    | 2     | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 6     | 11     | 52        |    |
| MINIMUM ≤ 0°         | 0                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |    |
| H/C                  | HEATING DEGREE DAYS           | 861   | 564   | 499   | 322   | 110   | 30    | 0     | 0     | 14    | 232   | 557   | 737    | 3926      |    |
|                      | COOLING DEGREE DAYS           | 0     | 0     | 1     | 0     | 52    | 282   | 484   | 399   | 184   | 72    | 0     | 0      | 1474      |    |
| RH                   | MEAN (PERCENT)                | 62    | 63    | 61    | 56    | 56    | 69    | 63    | 65    | 68    | 68    | 70    | 68     | 64        |    |
|                      | HOUR 01 LST                   | 68    | 69    | 69    | 65    | 65    | 80    | 73    | 77    | 81    | 78    | 76    | 75     | 73        |    |
|                      | HOUR 07 LST                   | 70    | 73    | 70    | 66    | 68    | 77    | 73    | 76    | 79    | 81    | 78    | 78     | 74        |    |
|                      | HOUR 13 LST                   | 52    | 53    | 51    | 46    | 45    | 55    | 47    | 49    | 52    | 52    | 59    | 57     | 52        |    |
|                      | HOUR 19 LST                   | 59    | 59    | 55    | 48    | 47    | 63    | 58    | 59    | 62    | 65    | 67    | 64     | 59        |    |
| S                    | PERCENT POSSIBLE SUNSHINE     | 58    | 53    | 53    | 64    | 65    | 62    | 68    | 61    | 61    | 59    | 38    | 53     | 58        |    |
| W/O                  | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | HEAVY FOG (VISBY ≤ 1/4 MI)    | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0      | 2         |    |
|                      | THUNDERSTORMS                 | 0     | 0     | 1     | 0     | 5     | 4     | 3     | 3     | 2     | 0     | 0     | 0      | 18        |    |
| CLOUDINESS           | AVG. SKY COVER (OKTAS)        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | SUNRISE - SUNSET              | 5     | 6     | 5     | 4     | 5     | 5     | 5     | 5     | 5     | 4     | 5     | 5      | 5         |    |
|                      | MIDNIGHT - MIDNIGHT           | 5     | 6     | 5     | 4     | 5     | 5     | 4     | 5     | 4     | 4     | 5     | 5      | 5         |    |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | CLEAR                         | 8     | 3     | 7     | 10    | 3     | 6     | 5     | 3     | 7     | 11    | 5     | 8      | 76        |    |
| PARTLY CLOUDY        | 13                            | 11    | 10    | 11    | 18    | 12    | 17    | 19    | 14    | 11    | 4     | 7     | 147    |           |    |
| CLOUDY               | 10                            | 14    | 14    | 9     | 10    | 12    | 9     | 9     | 9     | 9     | 20    | 16    | 141    |           |    |
| PR                   | MEAN STATION PRESS. (IN.)     | 30.02 | 30.14 | 29.99 | 29.88 | 29.89 | 29.92 | 29.92 | 29.94 | 29.93 | 30.01 | 29.90 | 29.86  | 29.95     |    |
|                      | MEAN SEA-LEVEL PRESS. (IN.)   | 30.09 | 30.21 | 30.06 | 29.95 | 29.96 | 29.99 | 29.99 | 30.01 | 30.00 | 30.08 | 29.97 | 29.93  | 30.02     |    |
| WINDS                | RESULTANT SPEED (MPH)         | 3.5   | 3.3   | 3.8   | 5.0   | 2.8   | 2.0   | 1.2   | 1.6   | 1.0   | 2.3   | 3.3   | 3.4    | 2.2       |    |
|                      | RES. DIR. (TENS OF DEGS.)     | 30    | 28    | 29    | 32    | 28    | 17    | 34    | 20    | 34    | 33    | 33    | 30     | 30        |    |
|                      | MEAN SPEED (MPH)              | 9.4   | 9.6   | 12.0  | 10.8  | 10.2  | 7.6   | 8.2   | 8.2   | 8.6   | 8.6   | 8.8   | 8.6    | 9.2       |    |
|                      | PREVAIL. DIR. (TENS OF DEGS.) | 33    | 32    | 32    | 32    | 18    | 18    | 18    | 18    | 35    | 18    | 32    | 30     | 18        |    |
|                      | MAXIMUM 2-MINUTE WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | SPEED (MPH)                   | 28    | 33    | 40    | 37    | 25    | 32    | 43    | 21    | 31    | 20    | 23    | 22     | 43        |    |
|                      | DIR. (TENS OF DEGS.)          | 32    | 22    | 33    | 35    | 30    | 32    | 31    | 32    | 34    | 30    | 05    | 34     | 31        |    |
|                      | DATE OF OCCURRENCE            | 16    | 27    | 31    | 01    | 06+   | 26    | 28    | 28    | 20    | 28+   | 07    | 01     | JUL 28    |    |
|                      | MAXIMUM 5-SECOND WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | SPEED (MPH)                   | 39    | 41    | 51    | 49    | 40    | 40    | 48    | 29    | 39    | 33    | 40    | 35     | 51        |    |
| DIR. (TENS OF DEGS.) | NW                            | NW    | NW    | N     | NW    | NW    | NW    | NW    | N     | NW    | NW    | W     | NW     |           |    |
| DATE OF OCCURRENCE   | 26+                           | 17    | 22    | 01    | 06    | 26    | 28    | 28    | 20    | 27    | 26    | 30    | MAR 22 |           |    |
| PRECIPITATION        | WATER EQUIVALENT:             |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | TOTAL (IN.)                   | 2.55  | 2.43  | 4.15  | 2.41  | 3.04  | 2.94  | 1.14  | 3.51  | 1.59  | 3.72  | 4.60  | 1.74   | 33.82     |    |
|                      | GREATEST 24-HOUR (IN.)        | 0.93  | 0.87  | 1.02  | 1.44  | 2.72  | 1.55  | 0.46  | 2.06  | 0.71  | 1.72  | 2.07  | 0.54   | 2.72      |    |
|                      | DATE OF OCCURRENCE            | 24-25 | 04-05 | 3     | 27-28 | 25-26 | 02-03 | 23-24 | 20    | 28-29 | 17-18 | 07-08 | 24-25  | MAY 25-26 |    |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | PRECIPITATION ≥ 0.01          | 11    | 7     | 14    | 8     | 10    | 9     | 7     | 4     | 7     | 11    | 10    | 11     | 109       |    |
| PRECIPITATION ≥ 0.10 | 6                             | 7     | 8     | 6     | 3     | 6     | 5     | 2     | 4     | 6     | 9     | 6     | 68     |           |    |
| PRECIPITATION ≥ 1.00 | 0                             | 0     | 1     | 1     | 1     | 1     | 0     | 2     | 0     | 1     | 1     | 0     | 8      |           |    |
| SNOWFALL             | SNOW, ICE PELLETS, HAIL:      |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | TOTAL (IN.)                   | 2.3   | 4.0   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | T     | 0.1    | 6.4       |    |
|                      | GREATEST 24-HOUR (IN.)        | 1.6   | 3.2   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | T     | 0.1    | 3.2       |    |
|                      | DATE OF OCCURRENCE            | 09    | 08    | 31+   |       |       |       |       |       |       |       | 24    | 09     | FEB 08    |    |
|                      | MAXIMUM SNOW DEPTH (IN.)      | 2     | 3     | 0     | T     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | T      | 3         |    |
|                      | DATE OF OCCURRENCE            | 09    | 09+   |       | 01    |       |       |       |       |       |       |       | 09     | FEB 09+   |    |
| NUMBER OF DAYS WITH: |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
| SNOWFALL ≥ 1.0       | 1                             | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2      |           |    |

# NORMALS, MEANS, AND EXTREMES

WASHINGTON NAT'L AP, DC (DCA)

LATITUDE: 38° 51' 54" N      LONGITUDE: 77° 02' 03" W      ELEVATION (FT): GRND: 10      BARO: 75      TIME ZONE: EASTERN (UTC+ 5)      WBAN: 13743

| ELEMENT               |                             | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F        | NORMAL DAILY MAXIMUM        | 30   | 42.3  | 45.9  | 56.5  | 66.7  | 76.2  | 84.7  | 88.5  | 86.9  | 80.1  | 69.1  | 58.3  | 47.0     | 66.8     |
|                       | MEAN DAILY MAXIMUM          | 52   | 43.2  | 46.4  | 55.3  | 66.6  | 75.7  | 84.0  | 88.0  | 86.1  | 79.6  | 69.0  | 57.4  | 46.7     | 66.5     |
|                       | HIGHEST DAILY MAXIMUM       | 56   | 79    | 82    | 89    | 95    | 99    | 101   | 104   | 105   | 101   | 94    | 86    | 75       | 105      |
|                       | YEAR OF OCCURRENCE          |      | 1950  | 1948  | 1990  | 1976  | 1991  | 1994  | 1988  | 1997  | 1980  | 1954  | 1974  | 1984     | AUG 1997 |
|                       | MEAN OF EXTREME MAXS.       | 52   | 64.3  | 67.2  | 77.4  | 86.0  | 90.3  | 95.3  | 96.9  | 95.5  | 92.6  | 83.9  | 75.4  | 66.0     | 82.6     |
|                       | NORMAL DAILY MINIMUM        | 30   | 26.8  | 29.1  | 37.7  | 46.4  | 56.6  | 66.5  | 71.4  | 70.0  | 62.5  | 50.3  | 41.1  | 31.7     | 49.2     |
|                       | MEAN DAILY MINIMUM          | 52   | 28.0  | 29.7  | 36.9  | 46.3  | 56.1  | 65.4  | 70.3  | 68.8  | 61.9  | 50.2  | 40.2  | 31.6     | 48.8     |
|                       | LOWEST DAILY MINIMUM        | 56   | -5    | 4     | 11    | 24    | 34    | 47    | 54    | 49    | 39    | 29    | 16    | 1        | -5       |
|                       | YEAR OF OCCURRENCE          |      | 1982  | 1961  | 1943  | 1982  | 1947  | 1972  | 1988  | 1986  | 1963  | 1969  | 1955  | 1942     | JAN 1982 |
|                       | MEAN OF EXTREME MINS.       | 52   | 12.0  | 14.8  | 23.0  | 32.9  | 43.5  | 53.4  | 60.8  | 58.4  | 48.2  | 36.6  | 26.5  | 17.3     | 35.6     |
|                       | NORMAL DRY BULB             | 30   | 34.6  | 37.5  | 47.2  | 56.5  | 66.4  | 75.6  | 80.0  | 78.5  | 71.3  | 59.7  | 49.8  | 39.4     | 58.0     |
|                       | MEAN DRY BULB               | 52   | 35.6  | 38.1  | 46.1  | 56.5  | 65.9  | 74.7  | 79.2  | 77.4  | 70.7  | 59.6  | 48.8  | 39.1     | 57.6     |
|                       | MEAN WET BULB               | 14   | 31.7  | 34.2  | 40.3  | 49.4  | 58.6  | 67.3  | 71.7  | 70.1  | 63.8  | 53.8  | 43.6  | 35.6     | 51.7     |
|                       | MEAN DEW POINT              | 14   | 24.1  | 26.1  | 31.9  | 41.7  | 52.9  | 62.5  | 67.5  | 66.2  | 59.6  | 48.6  | 37.3  | 28.7     | 45.6     |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| MAXIMUM ≥ 90°         | 30                          | 0.0  | 0.0   | 0.0   | 0.4   | 1.5   | 7.4   | 13.8  | 10.1  | 3.9   | 0.1   | 0.0   | 0.0   | 37.2     |          |
| MAXIMUM ≤ 32°         | 30                          | 5.2  | 2.3   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | *     | 2.1   | 9.8      |          |
| MINIMUM ≤ 32°         | 30                          | 22.3 | 18.5  | 8.4   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 4.2   | 15.7  | 70.4     |          |
| MINIMUM ≤ 0°          | 30                          | 0.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1      |          |
| H/C                   | NORMAL HEATING DEG. DAYS    | 30   | 942   | 770   | 552   | 264   | 60    | 0     | 0     | 0     | 14    | 195   | 456   | 794      | 4047     |
|                       | NORMAL COOLING DEG. DAYS    | 30   | 0     | 0     | 0     | 9     | 104   | 318   | 465   | 419   | 203   | 31    | 0     | 0        | 1549     |
| RH                    | NORMAL (PERCENT)            | 30   | 62    | 60    | 59    | 58    | 64    | 66    | 67    | 69    | 70    | 67    | 65    | 64       | 64       |
|                       | HOUR 01 LST                 | 30   | 66    | 66    | 64    | 66    | 74    | 76    | 77    | 79    | 79    | 76    | 71    | 68       | 72       |
|                       | HOUR 07 LST                 | 30   | 69    | 69    | 70    | 69    | 74    | 75    | 76    | 80    | 81    | 79    | 75    | 71       | 74       |
|                       | HOUR 13 LST                 | 30   | 55    | 52    | 49    | 48    | 52    | 52    | 53    | 55    | 55    | 53    | 54    | 56       | 53       |
|                       | HOUR 19 LST                 | 30   | 59    | 56    | 53    | 51    | 59    | 60    | 61    | 64    | 66    | 64    | 61    | 61       | 60       |
| S                     | PERCENT POSSIBLE SUNSHINE   | 49   | 46    | 50    | 55    | 57    | 58    | 64    | 62    | 62    | 61    | 59    | 51    | 46       | 56       |
| W/O                   | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | HEAVY FOG (VISBY ≤ 1/4 MI)  | 49   | 1.7   | 1.5   | 0.9   | 0.8   | 0.4   | 0.2   | 0.1   | 0.1   | 0.3   | 1.3   | 1.1   | 1.7      | 10.1     |
|                       | THUNDERSTORMS               | 49   | 0.2   | 0.2   | 1.1   | 2.6   | 4.6   | 5.8   | 6.7   | 5.0   | 2.3   | 1.1   | 0.6   | 0.0      | 30.2     |
| CLOUDINESS            | MEAN:                       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SUNRISE-SUNSET (OKTAS)      | 49   | 5.4   | 5.2   | 5.2   | 5.1   | 5.1   | 4.8   | 4.8   | 4.6   | 4.6   | 4.3   | 5.0   | 5.2      | 4.9      |
|                       | MIDNIGHT-MIDNIGHT (OKTAS)   | 33   | 5.1   | 5.0   | 5.0   | 4.8   | 5.0   | 4.7   | 4.8   | 4.5   | 4.5   | 4.2   | 4.7   | 5.1      | 4.8      |
|                       | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | CLEAR                       | 50   | 7.3   | 7.0   | 7.5   | 7.1   | 6.9   | 7.3   | 7.4   | 8.6   | 9.4   | 10.7  | 7.7   | 7.9      | 94.8     |
| PARTLY CLOUDY         | 50                          | 7.3  | 6.7   | 8.3   | 9.1   | 10.1  | 11.4  | 11.8  | 10.2  | 8.4   | 7.9   | 7.8   | 6.6   | 105.6    |          |
| CLOUDY                | 50                          | 16.4 | 14.5  | 15.2  | 13.9  | 14.0  | 11.4  | 11.4  | 11.7  | 11.6  | 11.9  | 13.8  | 15.9  | 161.7    |          |
| PR                    | MEAN STATION PRESSURE (IN)  | 25   | 30.03 | 30.03 | 29.97 | 29.92 | 29.92 | 29.92 | 29.94 | 29.98 | 30.01 | 30.04 | 30.03 | 30.05    | 29.99    |
|                       | MEAN SEA-LEVEL PRES. (IN)   | 14   | 30.11 | 30.10 | 30.06 | 29.98 | 30.00 | 29.98 | 30.00 | 30.04 | 30.08 | 30.11 | 30.13 | 30.12    | 30.06    |
| WINDS                 | MEAN SPEED (MPH)            | 50   | 10.2  | 10.7  | 11.1  | 10.7  | 9.6   | 9.0   | 8.5   | 8.3   | 8.5   | 8.8   | 9.5   | 9.6      | 9.5      |
|                       | PREVAIL. DIR (TENS OF DEGS) | 28   | 33    | 32    | 32    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18       | 18       |
|                       | MAXIMUM 2-MINUTE:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SPEED (MPH)                 | 13   | 35    | 37    | 40    | 37    | 46    | 46    | 43    | 37    | 38    | 39    | 37    | 38       | 46       |
|                       | DIR. (TENS OF DEGS)         |      | 29    | 33    | 33    | 35    | 32    | 31    | 34    | 34    | 12    | 23    | 32    | 34       | 31       |
|                       | YEAR OF OCCURRENCE          |      | 1992  | 1991  | 1997  | 1997  | 1993  | 1996  | 1997  | 1988  | 1996  | 1990  | 1995  | 1993     | JUN 1996 |
|                       | PEAK GUST:                  |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SPEED (MPH)           | 14                          | 51   | 49    | 55    | 49    | 60    | 59    | 63    | 53    | 54    | 58    | 59    | 56    | 63       |          |
| DIR. (TENS OF DEGS)   |                             | NW   | NW    | NE    | N     | NW    | N     | W     | NW    | NW    | SW    | NW    | NW    | W        |          |
| YEAR OF OCCURRENCE    |                             | 1985 | 1987  | 1993  | 1997  | 1984  | 1996  | 1991  | 1988  | 1985  | 1990  | 1992  | 1985  | JUL 1991 |          |
| PRECIPITATION         | NORMAL (IN)                 | 30   | 2.72  | 2.71  | 3.17  | 2.71  | 3.66  | 3.38  | 3.80  | 3.91  | 3.31  | 3.02  | 3.12  | 3.12     | 38.63    |
|                       | MAXIMUM MONTHLY (IN)        | 56   | 7.11  | 5.71  | 8.45  | 6.88  | 10.69 | 11.53 | 11.06 | 14.31 | 12.36 | 8.65  | 6.70  | 6.54     | 14.31    |
|                       | YEAR OF OCCURRENCE          |      | 1978  | 1961  | 1994  | 1983  | 1953  | 1972  | 1945  | 1955  | 1975  | 1995  | 1963  | 1969     | AUG 1955 |
|                       | MINIMUM MONTHLY (IN)        | 56   | 0.31  | 0.42  | 0.64  | 0.03  | 0.75  | 0.95  | 0.93  | 0.55  | 0.20  | T     | 0.29  | 0.22     | T        |
|                       | YEAR OF OCCURRENCE          |      | 1955  | 1978  | 1945  | 1985  | 1986  | 1988  | 1966  | 1962  | 1967  | 1963  | 1981  | 1955     | OCT 1963 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 54   | 2.13  | 1.94  | 3.43  | 3.08  | 4.32  | 7.19  | 4.69  | 6.39  | 5.31  | 4.98  | 4.03  | 2.86     | 7.19     |
|                       | YEAR OF OCCURRENCE          |      | 1976  | 1983  | 1958  | 1970  | 1953  | 1972  | 1970  | 1955  | 1975  | 1955  | 1993  | 1977     | JUN 1972 |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| PRECIPITATION ≥ 0.01  | 30                          | 9.8  | 9.5   | 10.1  | 9.6   | 10.8  | 9.7   | 9.6   | 8.9   | 7.2   | 7.2   | 8.5   | 8.9   | 109.8    |          |
| PRECIPITATION ≥ 1.00  | 30                          | 0.4  | 0.5   | 0.6   | 0.4   | 0.9   | 0.8   | 1.0   | 1.3   | 1.0   | 1.0   | 0.8   | 0.7   | 9.4      |          |
| SNOWFALL              | NORMAL (IN)                 | 30   | 6.2   | 6.3   | 1.6   | 0.*   | 0.0   | 0.0   | 0.0   | 0.0   | 0.*   | 1.0   | 3.1   | 18.2     |          |
|                       | MAXIMUM MONTHLY (IN)        | 54   | 23.8  | 30.6  | 17.1  | 0.6   | T     | 0.0   | T     | T     | 0.0   | 0.3   | 11.5  | 16.2     | 30.6     |
|                       | YEAR OF OCCURRENCE          |      | 1996  | 1979  | 1960  | 1972  | 1993  |       | 1990  | 1996  |       | 1979  | 1987  | 1962     | FEB 1979 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 54   | 13.8  | 18.7  | 7.9   | 0.6   | T     | 0.0   | T     | T     | 0.0   | 0.3   | 11.5  | 11.4     | 18.7     |
|                       | YEAR OF OCCURRENCE          |      | 1966  | 1979  | 1960  | 1972  | 1993  |       | 1990  | 1992  |       | 1979  | 1987  | 1957     | FEB 1979 |
|                       | MAXIMUM SNOW DEPTH (IN)     | 51   | 18    | 22    | 8     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 12    | 8        | 22       |
|                       | YEAR OF OCCURRENCE          |      | 1987  | 1979  | 1960  | 1972  |       |       |       |       |       |       | 1987  | 1973     | FEB 1979 |
| NORMAL NO. DAYS WITH: |                             |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SNOWFALL ≥ 1.0        | 30                          | 1.6  | 1.5   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.7   | 4.5      |          |

PRECIPITATION (inches) 1997 WASHINGTON, D.C. DC (DCA)

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|-------|------|------|-------|------|------|------|--------|
| 1968           | 1.97 | 0.80 | 3.66 | 1.53 | 4.23 | 7.40  | 1.31 | 3.95 | 2.97  | 3.17 | 3.62 | 2.22 | 36.83  |
| 1969           | 1.69 | 2.08 | 1.60 | 1.71 | 1.20 | 3.46  | 9.44 | 6.98 | 5.07  | 1.14 | 2.39 | 6.54 | 43.30  |
| 1970           | 1.24 | 2.69 | 2.82 | 5.35 | 2.79 | 2.80  | 8.12 | 1.09 | 1.57  | 2.05 | 5.77 | 3.33 | 39.62  |
| 1971           | 1.86 | 5.44 | 1.93 | 2.10 | 6.80 | 1.72  | 4.97 | 7.18 | 2.48  | 6.12 | 3.76 | 1.66 | 46.02  |
| 1972           | 2.45 | 5.27 | 2.27 | 3.99 | 4.78 | 11.53 | 3.43 | 2.82 | 1.27  | 3.56 | 6.05 | 4.55 | 51.97  |
| 1973           | 2.26 | 2.68 | 2.97 | 4.19 | 3.39 | 2.11  | 2.68 | 4.41 | 1.58  | 1.71 | 0.97 | 6.03 | 34.98  |
| 1974           | 2.66 | 0.95 | 4.21 | 2.26 | 4.37 | 3.40  | 1.15 | 5.77 | 4.39  | 1.13 | 1.24 | 4.43 | 35.96  |
| 1975           | 3.09 | 1.56 | 5.33 | 2.13 | 4.71 | 2.15  | 7.16 | 3.54 | 12.36 | 2.38 | 2.05 | 4.04 | 50.50  |
| 1976           | 3.56 | 1.55 | 2.51 | 1.17 | 3.57 | 1.21  | 4.54 | 2.13 | 7.23  | 7.76 | 0.85 | 1.99 | 38.07  |
| 1977           | 1.50 | 0.66 | 2.17 | 2.66 | 1.73 | 3.28  | 4.06 | 4.74 | 0.32  | 5.35 | 4.81 | 4.86 | 36.14  |
| 1978           | 7.11 | 0.42 | 4.48 | 1.38 | 5.13 | 2.43  | 4.28 | 5.85 | 1.01  | 1.16 | 2.31 | 4.00 | 39.56  |
| 1979           | 6.64 | 5.62 | 2.45 | 1.88 | 3.55 | 2.99  | 3.43 | 5.41 | 6.64  | 5.54 | 2.33 | 0.85 | 47.33  |
| 1980           | 2.85 | 1.16 | 5.04 | 3.28 | 2.64 | 1.68  | 3.86 | 1.11 | 1.90  | 2.59 | 2.56 | 0.65 | 29.32  |
| 1981           | 0.38 | 2.82 | 1.49 | 2.63 | 3.42 | 2.55  | 5.69 | 3.02 | 1.94  | 3.64 | 0.29 | 2.80 | 30.67  |
| 1982           | 2.27 | 3.33 | 2.64 | 3.19 | 5.11 | 5.41  | 2.98 | 2.68 | 1.71  | 1.75 | 2.96 | 1.74 | 35.77  |
| 1983           | 1.69 | 3.09 | 4.84 | 6.88 | 4.62 | 7.09  | 1.78 | 3.11 | 2.90  | 4.87 | 5.09 | 5.91 | 51.87  |
| 1984           | 1.71 | 3.43 | 6.14 | 3.71 | 3.80 | 2.01  | 4.09 | 2.30 | 2.51  | 3.18 | 3.66 | 1.19 | 37.73  |
| 1985           | 2.11 | 3.07 | 1.88 | 0.03 | 5.79 | 2.05  | 2.91 | 2.35 | 6.67  | 3.85 | 4.47 | 0.68 | 35.86  |
| 1986           | 2.38 | 3.49 | 0.74 | 1.98 | 0.75 | 1.29  | 3.79 | 5.33 | 0.60  | 2.01 | 5.23 | 4.98 | 32.57  |
| 1987           | 4.90 | 2.11 | 1.54 | 2.28 | 2.54 | 3.90  | 2.59 | 2.07 | 5.11  | 2.53 | 4.49 | 2.57 | 36.63  |
| 1988           | 3.14 | 2.52 | 2.27 | 2.00 | 4.50 | 0.95  | 3.74 | 2.39 | 1.85  | 1.75 | 5.33 | 1.30 | 31.74  |
| 1989           | 2.49 | 2.80 | 4.30 | 3.50 | 7.77 | 6.02  | 5.66 | 1.15 | 6.68  | 5.48 | 2.37 | 2.10 | 50.32  |
| 1990           | 2.95 | 1.30 | 2.57 | 4.09 | 5.20 | 3.14  | 3.78 | 6.74 | 0.87  | 3.30 | 2.17 | 4.73 | 40.84  |
| 1991           | 2.90 | 0.83 | 4.42 | 1.39 | 1.57 | 1.27  | 3.76 | 2.03 | 3.50  | 2.03 | 0.85 | 5.07 | 29.62  |
| 1992           | 2.78 | 2.23 | 3.48 | 2.55 | 3.41 | 2.35  | 5.34 | 2.48 | 3.49  | 2.03 | 3.38 | 2.86 | 36.38  |
| 1993           | 2.90 | 2.27 | 6.82 | 3.62 | 3.40 | 1.73  | 1.36 | 3.87 | 3.68  | 2.62 | 4.76 | 4.38 | 41.41  |
| 1994           | 4.28 | 4.20 | 8.45 | 1.58 | 1.56 | 1.59  | 3.61 | 4.35 | 2.84  | 1.19 | 1.57 | 2.35 | 37.57  |
| 1995           | 3.22 | 1.71 | 2.14 | 1.89 | 4.19 | 2.42  | 4.03 | 0.88 | 3.73  | 8.65 | 4.77 | 2.17 | 39.80  |
| 1996           | 5.01 | 1.99 | 3.60 | 3.17 | 4.96 | 3.14  | 5.60 | 2.63 | 7.79  | 4.04 | 3.58 | 5.51 | 51.02  |
| 1997           | 2.55 | 2.43 | 4.15 | 2.41 | 3.04 | 2.94  | 1.14 | 3.51 | 1.59  | 3.72 | 4.60 | 1.74 | 33.82  |
| POR=<br>56 YRS | 2.81 | 2.53 | 3.43 | 2.77 | 3.85 | 3.24  | 3.88 | 4.06 | 3.35  | 3.03 | 3.04 | 3.03 | 39.02  |

WBAN : 13743

AVERAGE TEMPERATURE (°F) 1997 WASHINGTON, D.C. DC (DCA)

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968           | 31.4 | 34.3 | 49.7 | 58.0 | 63.7 | 74.1 | 79.9 | 79.2 | 72.0 | 61.3 | 50.0 | 36.6 | 57.5   |
| 1969           | 34.2 | 36.9 | 43.0 | 58.7 | 68.4 | 77.1 | 79.5 | 76.3 | 70.1 | 58.8 | 47.2 | 36.3 | 57.2   |
| 1970           | 30.0 | 37.1 | 41.9 | 55.3 | 68.3 | 75.2 | 79.2 | 79.0 | 75.0 | 62.5 | 49.3 | 39.7 | 57.7   |
| 1971           | 31.3 | 39.1 | 43.2 | 55.0 | 63.7 | 75.9 | 78.3 | 76.7 | 73.0 | 64.7 | 48.2 | 45.5 | 57.9   |
| 1972           | 38.5 | 36.5 | 45.6 | 54.1 | 64.6 | 70.2 | 77.5 | 75.9 | 71.0 | 56.0 | 46.8 | 43.6 | 56.7   |
| 1973           | 37.6 | 37.0 | 51.1 | 56.0 | 62.8 | 77.1 | 79.2 | 79.9 | 74.3 | 63.3 | 51.6 | 41.9 | 59.3   |
| 1974           | 42.9 | 39.2 | 49.2 | 58.3 | 65.1 | 71.5 | 79.0 | 78.4 | 70.2 | 57.3 | 50.9 | 43.1 | 58.8   |
| 1975           | 40.9 | 40.6 | 45.2 | 53.6 | 69.7 | 76.4 | 79.3 | 80.1 | 68.5 | 63.2 | 54.4 | 40.5 | 59.4   |
| 1976           | 33.9 | 46.9 | 51.3 | 59.9 | 65.0 | 77.6 | 78.4 | 76.7 | 70.4 | 55.4 | 43.0 | 35.5 | 57.8   |
| 1977           | 25.4 | 38.8 | 52.7 | 60.1 | 69.4 | 74.3 | 80.9 | 78.8 | 73.9 | 59.0 | 51.8 | 38.1 | 58.6   |
| 1978           | 32.5 | 31.4 | 44.4 | 57.7 | 65.8 | 76.7 | 78.8 | 81.3 | 73.6 | 59.4 | 52.2 | 43.1 | 58.1   |
| 1979           | 35.1 | 28.4 | 51.5 | 56.0 | 67.7 | 72.4 | 78.6 | 78.5 | 71.6 | 58.6 | 54.4 | 43.7 | 58.0   |
| 1980           | 37.2 | 36.1 | 46.2 | 60.1 | 69.5 | 74.8 | 82.3 | 82.8 | 77.1 | 59.9 | 48.6 | 39.8 | 59.5   |
| 1981           | 33.0 | 43.7 | 47.6 | 62.1 | 66.2 | 78.7 | 80.2 | 77.0 | 71.0 | 58.3 | 51.4 | 38.5 | 59.0   |
| 1982           | 28.1 | 38.3 | 45.7 | 54.0 | 69.0 | 72.8 | 80.3 | 75.4 | 70.6 | 60.2 | 51.8 | 45.5 | 57.6   |
| 1983           | 38.1 | 38.7 | 48.8 | 53.3 | 64.9 | 75.0 | 81.2 | 81.0 | 72.6 | 60.5 | 50.3 | 36.0 | 58.4   |
| 1984           | 32.2 | 43.8 | 41.8 | 54.9 | 64.9 | 76.9 | 76.5 | 77.8 | 68.3 | 65.2 | 46.0 | 45.6 | 57.8   |
| 1985           | 30.8 | 37.8 | 47.7 | 61.6 | 68.1 | 72.3 | 79.0 | 76.7 | 71.9 | 61.2 | 54.3 | 36.4 | 58.2   |
| 1986           | 35.4 | 35.3 | 47.4 | 56.2 | 68.1 | 76.6 | 81.1 | 74.6 | 70.9 | 61.1 | 46.5 | 39.8 | 57.8   |
| 1987           | 34.7 | 37.0 | 47.7 | 54.8 | 67.2 | 76.4 | 82.6 | 78.7 | 72.1 | 54.4 | 49.9 | 41.5 | 58.1   |
| 1988           | 31.0 | 37.3 | 47.2 | 54.4 | 65.8 | 74.4 | 81.9 | 80.7 | 68.9 | 54.4 | 49.9 | 38.7 | 57.1   |
| 1989           | 39.9 | 37.8 | 46.1 | 55.4 | 64.1 | 76.8 | 78.3 | 77.1 | 71.4 | 60.5 | 48.0 | 27.9 | 56.9   |
| 1990           | 43.6 | 45.2 | 50.2 | 56.8 | 64.3 | 75.0 | 79.4 | 76.5 | 69.6 | 62.8 | 52.0 | 44.5 | 60.0   |
| 1991           | 38.6 | 43.0 | 48.8 | 58.2 | 73.0 | 76.8 | 81.4 | 80.0 | 71.0 | 60.4 | 48.8 | 42.3 | 60.2   |
| 1992           | 38.2 | 41.2 | 45.0 | 55.4 | 62.3 | 71.7 | 79.5 | 74.0 | 69.2 | 56.0 | 48.8 | 39.6 | 56.7   |
| 1993           | 39.7 | 34.3 | 42.2 | 54.8 | 67.4 | 75.3 | 83.1 | 79.6 | 71.0 | 58.1 | 48.8 | 38.1 | 57.7   |
| 1994           | 28.8 | 36.3 | 45.4 | 62.0 | 63.1 | 79.4 | 81.8 | 75.5 | 70.2 | 59.1 | 53.4 | 44.2 | 58.3   |
| 1995           | 39.6 | 34.4 | 49.2 | 56.3 | 65.8 | 74.6 | 81.5 | 81.3 | 71.0 | 62.3 | 43.1 | 35.6 | 57.9   |
| 1996           | 32.9 | 37.3 | 42.9 | 56.8 | 63.9 | 77.2 | 77.6 | 76.5 | 70.6 | 59.4 | 44.1 | 43.0 | 56.9   |
| 1997           | 37.0 | 44.7 | 48.7 | 54.0 | 62.9 | 73.1 | 80.4 | 77.6 | 70.5 | 59.6 | 46.2 | 41.0 | 58.0   |
| POR=<br>56 YRS | 35.6 | 38.0 | 46.2 | 56.4 | 66.0 | 74.7 | 79.1 | 77.3 | 70.6 | 59.5 | 48.8 | 38.9 | 57.6   |

WBAN : 13743

HEATING DEGREE DAYS (base 65°F) 1997 WASHINGTON, D.C. DC (DCA)

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1968-69 | 0   | 0   | 0   | 162 | 445 | 875  | 949  | 780  | 671 | 208 | 40  | 0   | 4130  |
| 1969-70 | 0   | 0   | 18  | 226 | 525 | 883  | 1077 | 773  | 713 | 294 | 56  | 0   | 4565  |
| 1970-71 | 0   | 0   | 17  | 131 | 464 | 777  | 1034 | 722  | 670 | 294 | 85  | 2   | 4196  |
| 1971-72 | 0   | 0   | 12  | 61  | 518 | 597  | 815  | 817  | 599 | 326 | 56  | 21  | 3822  |
| 1972-73 | 0   | 0   | 8   | 278 | 543 | 654  | 843  | 777  | 423 | 286 | 109 | 0   | 3921  |
| 1973-74 | 0   | 0   | 4   | 103 | 399 | 708  | 677  | 716  | 490 | 228 | 85  | 4   | 3414  |
| 1974-75 | 0   | 0   | 26  | 250 | 446 | 674  | 740  | 677  | 608 | 345 | 24  | 0   | 3790  |
| 1975-76 | 0   | 0   | 20  | 102 | 328 | 752  | 956  | 524  | 415 | 236 | 80  | 0   | 3413  |
| 1976-77 | 0   | 0   | 11  | 306 | 652 | 907  | 1221 | 729  | 389 | 188 | 32  | 3   | 4438  |
| 1977-78 | 0   | 0   | 1   | 196 | 406 | 829  | 1001 | 933  | 633 | 219 | 86  | 0   | 4304  |
| 1978-79 | 0   | 0   | 9   | 192 | 378 | 671  | 918  | 1019 | 425 | 273 | 30  | 0   | 3915  |
| 1979-80 | 0   | 0   | 5   | 231 | 313 | 654  | 857  | 830  | 573 | 149 | 28  | 0   | 3640  |
| 1980-81 | 0   | 0   | 4   | 189 | 487 | 774  | 984  | 592  | 536 | 133 | 75  | 0   | 3774  |
| 1981-82 | 0   | 0   | 19  | 219 | 399 | 818  | 1135 | 743  | 592 | 328 | 19  | 3   | 4275  |
| 1982-83 | 0   | 2   | 9   | 193 | 402 | 597  | 827  | 730  | 497 | 365 | 77  | 0   | 3699  |
| 1983-84 | 0   | 0   | 32  | 177 | 433 | 890  | 1009 | 610  | 710 | 302 | 95  | 4   | 4262  |
| 1984-85 | 0   | 0   | 54  | 59  | 561 | 594  | 1053 | 757  | 533 | 166 | 30  | 6   | 3813  |
| 1985-86 | 0   | 0   | 14  | 147 | 320 | 879  | 913  | 824  | 542 | 267 | 61  | 3   | 3970  |
| 1986-87 | 0   | 13  | 18  | 180 | 548 | 775  | 931  | 777  | 527 | 304 | 68  | 0   | 4141  |
| 1987-88 | 0   | 0   | 4   | 325 | 448 | 719  | 1047 | 796  | 544 | 317 | 69  | 25  | 4294  |
| 1988-89 | 0   | 0   | 18  | 330 | 442 | 807  | 771  | 755  | 596 | 297 | 112 | 0   | 4128  |
| 1989-90 | 0   | 0   | 35  | 167 | 507 | 1144 | 656  | 550  | 481 | 285 | 64  | 4   | 3893  |
| 1990-91 | 0   | 0   | 38  | 153 | 381 | 630  | 810  | 608  | 502 | 237 | 22  | 0   | 3381  |
| 1991-92 | 0   | 0   | 27  | 175 | 486 | 696  | 824  | 686  | 614 | 295 | 127 | 5   | 3935  |
| 1992-93 | 0   | 0   | 43  | 282 | 477 | 781  | 779  | 855  | 700 | 307 | 32  | 3   | 4259  |
| 1993-94 | 0   | 0   | 33  | 217 | 487 | 825  | 1115 | 796  | 599 | 135 | 132 | 0   | 4339  |
| 1994-95 | 0   | 0   | 5   | 190 | 348 | 639  | 782  | 853  | 485 | 274 | 59  | 0   | 3635  |
| 1995-96 | 0   | 0   | 30  | 144 | 651 | 901  | 993  | 798  | 675 | 268 | 131 | 0   | 4591  |
| 1996-97 | 0   | 0   | 9   | 182 | 617 | 677  | 861  | 564  | 499 | 322 | 110 | 30  | 3871  |
| 1997-   | 0   | 0   | 14  | 232 | 557 | 737  |      |      |     |     |     |     |       |

WBAN : 13743

COOLING DEGREE DAYS (base 65°F) 1997 WASHINGTON, D.C. DC (DCA)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0   | 0   | 0   | 24  | 151 | 367 | 458 | 360 | 180 | 39  | 1   | 0   | 1580   |
| 1970 | 0   | 0   | 0   | 10  | 166 | 311 | 449 | 442 | 324 | 60  | 0   | 0   | 1762   |
| 1971 | 0   | 0   | 0   | 0   | 52  | 337 | 422 | 372 | 258 | 60  | 22  | 0   | 1523   |
| 1972 | 0   | 0   | 3   | 5   | 50  | 184 | 393 | 346 | 195 | 8   | 2   | 0   | 1186   |
| 1973 | 0   | 0   | 2   | 21  | 47  | 371 | 448 | 469 | 288 | 57  | 3   | 0   | 1706   |
| 1974 | 0   | 0   | 4   | 33  | 96  | 205 | 441 | 422 | 192 | 17  | 27  | 0   | 1437   |
| 1975 | 1   | 0   | 0   | 12  | 177 | 344 | 448 | 475 | 132 | 50  | 15  | 0   | 1654   |
| 1976 | 0   | 4   | 1   | 92  | 86  | 383 | 424 | 370 | 179 | 15  | 0   | 0   | 1554   |
| 1977 | 0   | 0   | 10  | 49  | 177 | 289 | 496 | 434 | 274 | 18  | 15  | 0   | 1762   |
| 1978 | 0   | 0   | 0   | 10  | 117 | 358 | 434 | 514 | 274 | 25  | 0   | 0   | 1732   |
| 1979 | 0   | 0   | 14  | 9   | 120 | 231 | 431 | 425 | 208 | 39  | 2   | 0   | 1479   |
| 1980 | 0   | 0   | 0   | 9   | 174 | 301 | 546 | 563 | 374 | 38  | 1   | 0   | 2006   |
| 1981 | 0   | 0   | 6   | 49  | 118 | 417 | 478 | 380 | 204 | 18  | 0   | 0   | 1670   |
| 1982 | 0   | 0   | 0   | 6   | 155 | 244 | 479 | 330 | 185 | 51  | 13  | 1   | 1464   |
| 1983 | 0   | 0   | 0   | 21  | 81  | 310 | 510 | 504 | 269 | 42  | 0   | 0   | 1737   |
| 1984 | 0   | 0   | 0   | 4   | 99  | 368 | 365 | 404 | 157 | 73  | 0   | 0   | 1470   |
| 1985 | 0   | 0   | 6   | 70  | 135 | 232 | 444 | 373 | 228 | 37  | 6   | 0   | 1531   |
| 1986 | 0   | 0   | 5   | 10  | 162 | 358 | 503 | 318 | 202 | 70  | 1   | 0   | 1629   |
| 1987 | 0   | 0   | 0   | 8   | 146 | 347 | 554 | 431 | 222 | 0   | 0   | 0   | 1708   |
| 1988 | 0   | 0   | 1   | 4   | 101 | 313 | 534 | 490 | 144 | 11  | 0   | 0   | 1598   |
| 1989 | 0   | 0   | 16  | 14  | 91  | 362 | 417 | 381 | 233 | 33  | 1   | 0   | 1548   |
| 1990 | 0   | 0   | 30  | 46  | 50  | 309 | 451 | 364 | 183 | 88  | 0   | 0   | 1521   |
| 1991 | 0   | 0   | 5   | 38  | 278 | 362 | 517 | 472 | 214 | 41  | 5   | 0   | 1932   |
| 1992 | 0   | 0   | 0   | 16  | 53  | 214 | 457 | 285 | 175 | 8   | 0   | 0   | 1208   |
| 1993 | 0   | 0   | 0   | 5   | 114 | 319 | 569 | 460 | 218 | 9   | 8   | 0   | 1702   |
| 1994 | 0   | 0   | 1   | 53  | 82  | 439 | 530 | 333 | 166 | 11  | 6   | 0   | 1621   |
| 1995 | 0   | 0   | 0   | 20  | 91  | 297 | 515 | 511 | 216 | 67  | 1   | 0   | 1718   |
| 1996 | 0   | 0   | 0   | 29  | 105 | 373 | 397 | 364 | 181 | 14  | 0   | 0   | 1463   |
| 1997 | 0   | 0   | 1   | 0   | 52  | 282 | 484 | 399 | 184 | 72  | 0   | 0   | 1474   |

SNOWFALL (inches) 1997 WASHINGTON, D.C. DC (DCA)

| YEAR           | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-------|
| 1968-69        | 0.0 | 0.0 | 0.0 | 0.0 | T    | T    | 0.2  | 2.2  | 6.7 | 0.0 | 0.0 | 0.0 | 9.1   |
| 1969-70        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 6.8  | 3.6  | 3.6  | T   | 0.0 | 0.0 | 0.0 | 14.0  |
| 1970-71        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 5.2  | 4.8  | 0.3  | 1.4 | T   | 0.0 | 0.0 | 11.7  |
| 1971-72        | 0.0 | 0.0 | 0.0 | 0.0 | 1.4  | 0.1  | 0.3  | 14.4 | T   | 0.6 | 0.0 | 0.0 | 16.8  |
| 1972-73        | 0.0 | 0.0 | 0.0 | T   | T    | 0.0  | T    | 0.1  | T   | T   | 0.0 | 0.0 | 0.1   |
| 1973-74        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 11.0 | 1.5  | 4.2  | T   | T   | 0.0 | 0.0 | 16.7  |
| 1974-75        | 0.0 | 0.0 | 0.0 | T   | T    | 0.1  | 6.6  | 5.8  | 0.3 | T   | 0.0 | 0.0 | 12.8  |
| 1975-76        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.4  | 0.1  | 0.9  | 0.8 | 0.0 | 0.0 | 0.0 | 2.2   |
| 1976-77        | 0.0 | 0.0 | 0.0 | 0.0 | 0.8  | 0.6  | 9.7  | 0.0  | 0.0 | T   | 0.0 | 0.0 | 11.1  |
| 1977-78        | 0.0 | 0.0 | 0.0 | 0.0 | 0.1  | 0.2  | 10.3 | 3.8  | 8.3 | 0.0 | 0.0 | 0.0 | 22.7  |
| 1978-79        | 0.0 | 0.0 | 0.0 | 0.0 | 3.1  | T    | 4.0  | 30.6 | T   | 0.0 | 0.0 | 0.0 | 37.7  |
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.3 | 0.0  | T    | 8.6  | 5.1  | 6.1 | 0.0 | 0.0 | 0.0 | 20.1  |
| 1980-81        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.3  | 4.2  | T    | T   | 0.0 | 0.0 | 0.0 | 4.5   |
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 1.7  | 15.3 | 5.3  | 0.2 | T   | 0.0 | 0.0 | 22.5  |
| 1982-83        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 6.6  | T    | 21.0 | 0.0 | T   | 0.0 | 0.0 | 27.6  |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.3  | T    | 6.5  | T    | 1.8 | T   | 0.0 | 0.0 | 8.6   |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.3  | 10.0 | T    | T   | T   | 0.0 | 0.0 | 10.3  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.7  | 1.8  | 12.9 | T   | T   | 0.0 | 0.0 | 15.4  |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | T    | 20.8 | 10.3 | T   | T   | 0.0 | 0.0 | 31.1  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | T    | 13.1 | T    | 0.4 | T   | 0.0 | 0.0 | 25.0  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 1.2  | 2.9  | 1.2  | 0.4 | 0.0 | 0.0 | 0.0 | 5.7   |
| 1989-90        | 0.0 | 0.0 | 0.0 | 0.0 | 3.5  | 9.0  | 0.2  | T    | 2.4 | 0.2 | 0.0 | 0.0 | 15.3  |
| 1990-91        | T   | 0.0 | 0.0 | 0.0 | 0.0  | 3.0  | 4.8  | 0.3  | T   | 0.0 | T   | 0.0 | 8.1   |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.0  | 4.0  | 2.6  | T   | 0.0 | 0.0 | 0.0 | 6.6   |
| 1992-93        | 0.0 | T   | 0.0 | 0.0 | T    | 1.0  | T    | 4.1  | 6.6 | 0.0 | T   | 0.0 | 11.7  |
| 1993-94        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 2.6  | 3.5  | 3.1  | 4.0 | 0.0 | 0.0 | 0.0 | 13.2  |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.0  | 3.9  | 5.8  | 0.4 | 0.0 | 0.0 | 0.0 | 10.1  |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.0 | 0.5  | 1.3  | 23.8 | 15.2 | 5.2 | T   | 0.0 | 0.0 | 46.0  |
| 1996-97        | 0.0 | T   | 0.0 | 0.0 | 0.2  | 0.2  | 2.3  | 4.0  | T   | 0.0 | 0.0 | 0.0 | 6.7   |
| 1997-          | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.1  |      |      |     |     |     |     |       |
| POR=<br>53 YRS | T   | T   | 0.0 | 0.0 | 0.8  | 2.9  | 5.4  | 5.4  | 2.1 | 0.0 | T   | 0.0 | 16.6  |

WBAN : 13743

REFERENCE NOTES:

|   |   |
|---|---|
| <p>PAGE 1:<br/>THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.<br/>THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p> | <p>GENERAL CONTINUED:<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
|---|---|

1997  
WASHINGTON, D.C.  
NATIONAL AIRPORT (DCA)

Washington lies at the western edge of the mid Atlantic Coastal Plain, about 50 miles east of the Blue Ridge Mountains and 35 miles west of Chesapeake Bay, adjacent to the Potomac and Anacostia Rivers. Elevations range from a few feet above sea level to about 400 feet in parts of the northwest section of the city.

Observations have been kept continuously since November 1870. Since June 1941 the official observations have been taken at Washington National Airport.

National Airport is located at the center of the urban heat island. As a result, low temperatures are the highest for the area. Differences between the airport and suburban locations are often 10 to 15 degrees. There is less variation in the high temperatures.

Summers are warm and humid and winters are cold, but not severe. Periods of pleasant weather often occur in the spring and fall. The summertime temperature is in the upper 80s and the winter is in the upper 20s. Precipitation is rather uniformly distributed throughout the year.

Thunderstorms can occur at any time but are most frequent during the late spring and summer. The storms are most often accompanied by downpours and gusty winds, but are not usually severe.

Tornadoes, which infrequently occur, have resulted in significant damage. Severe hailstorms have occurred in the spring.

Tropical storms can bring heavy rain, high winds and flooding, but extensive damage from wind and tidal flooding is rare. Wind gusts of nearly 100 mph and rainfall over 7 inches have occurred during the passage of tropical storms and hurricanes.

Major flooding of the Potomac River can result from heavy rains over the basin, occasionally augmented by snowmelt, and above normal tides associated with hurricanes or severe storms along the coast. Flooding may also occur after a cold winter when the Potomac may be blocked with ice.

Although a snowfall of 10 inches or more in 24 hours is unusual, several notable falls of more than 25 inches have occurred. Normal snowfall during the winter season is 18 inches.

The average date of the last freezing temperature in the spring is April 1 and the average date for the first freezing temperature in the fall is November 10.

# STATION LOCATION

WASHINGTON, D.C.  
NATIONAL AIRPORT

| LOCATION   | OCCUPIED FROM  | OCCUPIED TO   | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION  | NORTH   | WEST    | ELEVATION ABOVE |   |                          |                        |                     |               |                     |             |                             |         |   |           | A U T O M A T I C   | * Type   | REMARKS   |  |
|--|--|---|--|---------|---------|-----------------|---|--------------------------|------------------------|---------------------|---------------|---------------------|-------------|-----------------------------|---------|---|-----------|---|--|---|--|
|  |  |   |  |         |         | SEA LEVEL       | GROUND  |                          |                        |                     |               |                     |             |                             |         |   |           |   |  |   |  |
|  |  |   |  |         |         |                 | W I N D I N G   | E M E R G E N C Y        | R O O F                | S U C C E S S I V E | T E R R A C E | R A I N             | W E I G H T | 8                           | I N C H | R A I N   | G A G G E |   |  |   | H  |
| CITY - - NOTE: For period November 1, 1870 through March 5, 1942, refer to previous editions.  |  |   |  |         |         |                 |   |                          |                        |                     |               |                     |             |                             |         |   |           |   |  |   |  |
| 2400 M Street NW   | 3/5/42   | 1/1/66  | 100 ft. N  | 38°54'  | 77°03'  | 72              | i100  | 56                       | 56                     | NA                  | 54            | 55                  | 53          | j                           | NA      | i - Installed 3/2/42.<br>j - Telepsychrometer (55') 3/30/49-9/22/52.  |           |   |  |   |  |
| AIRPORT<br>Boiling Field<br>Anacostia, D.C.  | 8/14/29  | 7/27/31   | NA   | k38°50' | k77°01' | k15             | NA  | 33                       | 33                     | NA                  | NA            | NA                  | NA          | NA                          | NA      | k - Approximate values.   |           |   |  |   |  |
| Washington-Hoover AP<br>Arlington County, VA   | 7/27/31  | 6/16/41   | 2 mi. NW   | 38°52'  | 77°03'  | 12              | 28  | 5                        | 5                      | NA                  | NA            | NA                  | NA          | NA                          | NA      |   |           |   |  |   |  |
| Terminal Building<br>Washington National AP  | 6/16/41  | 8/30/68   | 1.25 mi. SSE   | 38°52'  | 77°03'  | 14              | 89<br>q93<br>A120<br>B116<br>G111<br>H20<br>J111<br>K20 | mr6<br>s64<br>t72<br>K77 | u72<br>CD6<br>F<br>K77 | NA<br>p81           | 3<br>z<br>C3  | NA<br>n4<br>z<br>C3 | 3<br>C3     | NA<br>v<br>w/m<br>y/D<br>L4 | NA      | m - site 1450' NNW of office.<br>n - Installed 8/5/42.<br>p - Installed 7/23/43.<br>q - Effective 1/1/45.<br>r - See NOTE at left.<br>s - See NOTE at left.<br>t - See NOTE at left.<br>u - See NOTE at left.<br>v - Telepsychrometer (64') 8/1/45-11/23/45 and 4/1/46-7/30/46.<br>w - Telepsychrometer (6') 9/12/46-11/24/46; 5/1/47-8/28/47; & 9/5/47-12/1/47.<br>y - Telepsychrometer (6') 12/1/47-3/21/48 and 8/29/52-8/30/50.<br>z - Removed 2/16/50.<br>A - Effective 2/16/50.<br>B - Effective 9/28/50.<br>C - Installed 2/7/52.<br>D - Field site 500' W of office.<br>E - Effective 8/29/52.<br>F - Removed 8/29/52.<br>G - Effective 3/24/53.<br>H - Moved to field site 0.5 mi. SSE of office 12/30/57.<br>I - Effective 12/30/57.<br>J - Effective 9/30/59.<br>K - Effective 9/30/60.<br>L - Hygrothermometer commissioned 0.38 mi. SE of office 9/30/60. |           |   |  |   |  |
| NOTE: Due to various construction projects at the airport, instrument elevations were as follows:  |  |   |  |         |         |                 |   |                          |                        |                     |               |                     |             |                             |         |   |           |   |  |   |  |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; border: none;"> <b>Extreme Thermometers</b><br/>                     r - At 49 feet:<br/>                     6/16/41-8/1/45<br/>                     9/13/46-11/24/46<br/>                     5/1/47-5/15/47<br/>                     5/16/47-8/28/47<br/>                     9/5/47-3/21/48<br/>                     2/7/52-9/30/60                 </td> <td style="width: 25%; border: none;">                     s - At 64 feet:<br/>                     8/1/45-11/23/45<br/>                     4/1/46-7/30/46<br/>                     10/4/51-2/7/52                 </td> <td style="width: 25%; border: none;">                     t - At 72 feet:<br/>                     11/23/45-4/1/46<br/>                     11/24/46-5/1/47<br/>                     5/15/47-5/16/47<br/>                     8/28/47-9/5/47<br/>                     3/21/48-10/4/51                 </td> <td style="width: 25%; border: none;"> <b>Psychrometer</b><br/>                     u - At 72 feet:<br/>                     5/16/41-8/1/45<br/>                     11/23/45-4/1/46<br/>                     7/30/46-9/13/46<br/>                     11/24/46-5/1/47<br/>                     5/15/47-5/16/47<br/>                     8/28/47-9/5/47<br/>                     3/21/48-2/16/50<br/>                     Psychrometer not used at other times &amp; removed 2/16/50.                 </td> </tr> </table> |  |   |  |         |         |                 |   |                          |                        |                     |               |                     |             |                             |         |   |           | <b>Extreme Thermometers</b><br>r - At 49 feet:<br>6/16/41-8/1/45<br>9/13/46-11/24/46<br>5/1/47-5/15/47<br>5/16/47-8/28/47<br>9/5/47-3/21/48<br>2/7/52-9/30/60 | s - At 64 feet:<br>8/1/45-11/23/45<br>4/1/46-7/30/46<br>10/4/51-2/7/52 | t - At 72 feet:<br>11/23/45-4/1/46<br>11/24/46-5/1/47<br>5/15/47-5/16/47<br>8/28/47-9/5/47<br>3/21/48-10/4/51 | <b>Psychrometer</b><br>u - At 72 feet:<br>5/16/41-8/1/45<br>11/23/45-4/1/46<br>7/30/46-9/13/46<br>11/24/46-5/1/47<br>5/15/47-5/16/47<br>8/28/47-9/5/47<br>3/21/48-2/16/50<br>Psychrometer not used at other times & removed 2/16/50. |
| <b>Extreme Thermometers</b><br>r - At 49 feet:<br>6/16/41-8/1/45<br>9/13/46-11/24/46<br>5/1/47-5/15/47<br>5/16/47-8/28/47<br>9/5/47-3/21/48<br>2/7/52-9/30/60  | s - At 64 feet:<br>8/1/45-11/23/45<br>4/1/46-7/30/46<br>10/4/51-2/7/52 | t - At 72 feet:<br>11/23/45-4/1/46<br>11/24/46-5/1/47<br>5/15/47-5/16/47<br>8/28/47-9/5/47<br>3/21/48-10/4/51 | <b>Psychrometer</b><br>u - At 72 feet:<br>5/16/41-8/1/45<br>11/23/45-4/1/46<br>7/30/46-9/13/46<br>11/24/46-5/1/47<br>5/15/47-5/16/47<br>8/28/47-9/5/47<br>3/21/48-2/16/50<br>Psychrometer not used at other times & removed 2/16/50. |         |         |                 |   |                          |                        |                     |               |                     |             |                             |         |   |           |   |  |   |  |
| Main Terminal Building<br>Washington National AP   | 8/30/68  | Present   | 750 ft. NE   | 38°51'  | 77°02'  | 10              | 20<br>Q20   | N77                      | N77                    | N81                 | N3<br>P85     | N3<br>P85           | N3<br>P85   | 4<br>Q4                     | NA      | N - Nov moved 8/30/68.<br>P - Relocated 3/1971.<br>Q - Moved 800' SSE 8/1/75.<br>Station type changed from WSO to WSCH0 11/29/79.   |           |   |  |   |  |

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.  
INQUIRIES/COMMENTS CALL: (704) 271-4800

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