

2000

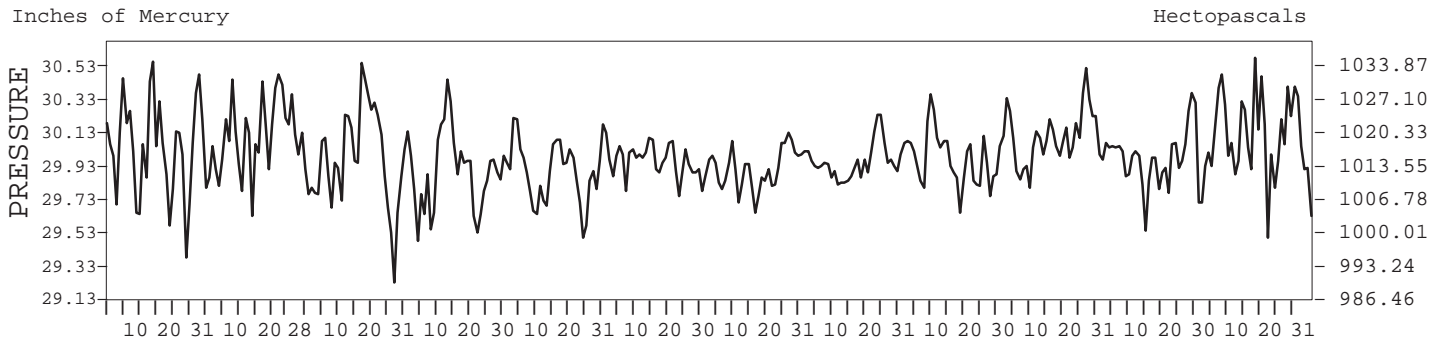
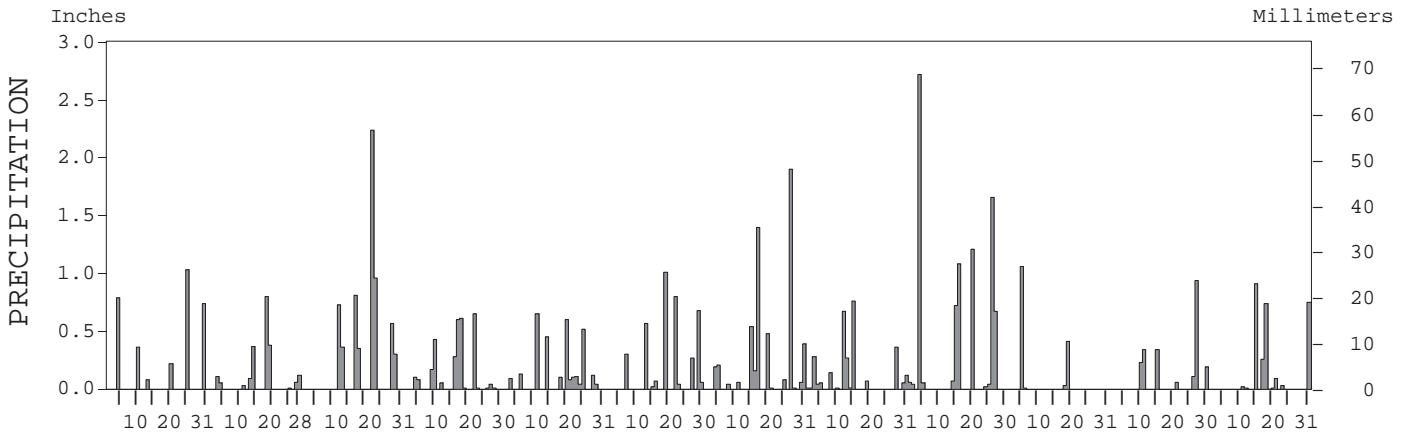
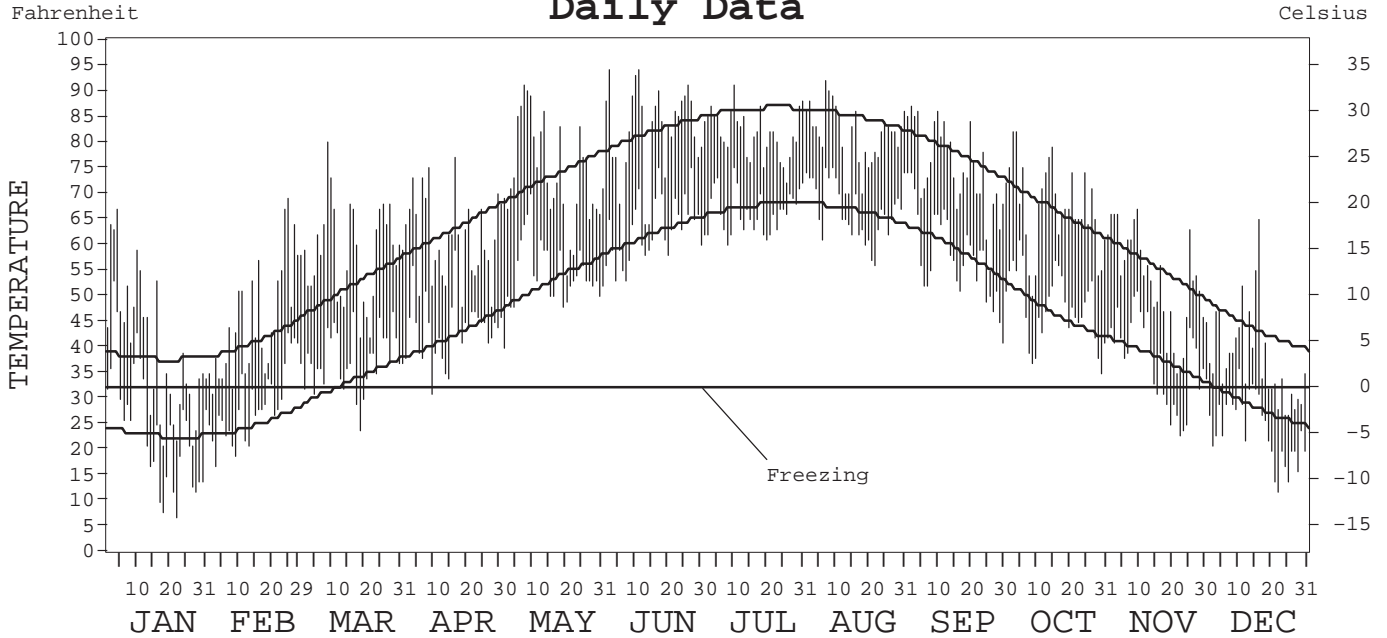
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4535

## PHILADELPHIA, PENNSYLVANIA (PHL)

### Daily Data



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|   |   |   |   |
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|---|---|---|---|

# METEOROLOGICAL DATA FOR 2000

PHILADELPHIA, PA (PHL)

LATITUDE: 39° 52' 06" N      LONGITUDE: 75° 13' 52" W      ELEVATION (FT.): GRND: 60      BARO: 60      TIME ZONE: EASTERN (UTC + 5)      WBAN: 13739

| ELEMENT                  |                               | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |  |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM            | 39.6  | 45.7  | 58.5  | 61.6  | 73.9  | 82.0  | 81.7  | 81.4  | 74.9  | 67.4  | 53.1  | 38.0   | 63.2      |  |
|                          | HIGHEST DAILY MAXIMUM         | 67    | 69    | 80    | 77    | 91    | 94    | 91    | 92    | 87    | 82    | 67    | 65     | 94        |  |
|                          | DATE OF OCCURRENCE            | 04    | 25    | 08    | 16    | 07    | 11+   | 10    | 07    | 02    | 04+   | 10    | 17     | JUN 11+   |  |
|                          | MEAN DAILY MINIMUM            | 24.6  | 29.2  | 37.5  | 43.5  | 54.4  | 63.1  | 66.4  | 66.7  | 57.9  | 48.0  | 37.6  | 24.5   | 46.1      |  |
|                          | LOWEST DAILY MINIMUM          | 7     | 17    | 24    | 31    | 40    | 53    | 60    | 56    | 41    | 35    | 23    | 12     | 7         |  |
|                          | DATE OF OCCURRENCE            | 22    | 03    | 18    | 09    | 01    | 07+   | 08    | 22    | 30    | 30    | 23    | 23     | JAN 22    |  |
|                          | AVERAGE DRY BULB              | 32.1  | 37.5  | 48.0  | 52.6  | 64.2  | 72.6  | 74.1  | 74.1  | 66.4  | 57.7  | 45.4  | 31.3   | 54.7      |  |
|                          | MEAN WET BULB                 | 28.7  | 34.2  | 42.8  | 47.3  | 57.8  | 66.2  | 66.6  | 67.7  | 61.6  | 52.8  | 41.3  | 28.1   | 49.6      |  |
|                          | MEAN DEW POINT                | 20.1  | 28.4  | 35.5  | 41.2  | 52.6  | 62.1  | 62.0  | 64.0  | 58.1  | 47.9  | 34.9  | 20.2   | 43.9      |  |
|                          | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MAXIMUM ≥ 90°                 | 0     | 0     | 0     | 0     | 2     | 5     | 1     | 2     | 0     | 0     | 0     | 0      | 10        |  |
|                          | MAXIMUM ≤ 32°                 | 11    | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 9      | 22        |  |
|                          | MINIMUM ≤ 32°                 | 24    | 20    | 6     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 10    | 28     | 89        |  |
| MINIMUM ≤ 0°             | 0                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |  |
| H/C                      | HEATING DEGREE DAYS           | 1012  | 792   | 519   | 371   | 107   | 15    | 0     | 0     | 73    | 230   | 584   | 1039   | 4742      |  |
|                          | COOLING DEGREE DAYS           | 0     | 0     | 0     | 3     | 89    | 251   | 286   | 286   | 123   | 12    | 0     | 0      | 1050      |  |
| RH                       | MEAN (PERCENT)                | 63    | 72    | 65    | 69    | 69    | 71    | 69    | 74    | 77    | 73    | 68    | 65     | 70        |  |
|                          | HOUR 01 LST                   | 65    | 79    | 74    | 78    | 77    | 82    | 80    | 85    | 86    | 84    | 72    | 68     | 78        |  |
|                          | HOUR 07 LST                   | 69    | 81    | 76    | 78    | 77    | 80    | 77    | 82    | 86    | 83    | 79    | 73     | 78        |  |
|                          | HOUR 13 LST                   | 57    | 62    | 50    | 58    | 57    | 58    | 57    | 61    | 62    | 56    | 57    | 57     | 58        |  |
|                          | HOUR 19 LST                   | 60    | 67    | 59    | 64    | 63    | 66    | 62    | 70    | 75    | 72    | 63    | 62     | 65        |  |
| S                        | PERCENT POSSIBLE SUNSHINE     | 58    | 61    | 63    | 42    | 61    | 59    | 58    | 55    | 64    | 73    | 48    | 67     | 59        |  |
| W/O                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | HEAVY FOG (VISBY ≤ 1/4 MI)    | 4     | 2     | 0     | 1     | 0     | 1     | 2     | 0     | 2     | 3     | 0     | 1      | 16        |  |
|                          | THUNDERSTORMS                 | 1     | 0     | 2     | 2     | 4     | 5     | 5     | 6     | 5     | 1     | 0     | 1      | 32        |  |
| CLOUDINESS               | SUNRISE-SUNSET: (OKTAS)       |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (≤ 12,000 FT.)     |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SATELLITE (> 12,000 FT.)      |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)    |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (≤ 12,000 FT.)     |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SATELLITE (> 12,000 FT.) |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| NUMBER OF DAYS WITH:     |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLEAR                    |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PARTLY CLOUDY            |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLOUDY                   |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PR                       | MEAN STATION PRESS. (IN.)     | 30.04 | 30.11 | 29.97 | 29.90 | 29.90 | 29.95 | 29.92 | 29.96 | 29.99 | 30.08 | 29.96 | 30.11  | 29.99     |  |
|                          | MEAN SEA-LEVEL PRESS. (IN.)   | 30.10 | 30.18 | 30.03 | 29.96 | 29.96 | 30.02 | 29.98 | 30.03 | 30.05 | 30.15 | 30.02 | 30.17  | 30.05     |  |
| WINDS                    | RESULTANT SPEED (MPH)         | 5.9   | 4.2   | 3.0   | 2.0   | 1.1   | 3.2   | 1.8   | 1.7   | 1.6   | 3.8   | 5.7   | 6.1    | 2.9       |  |
|                          | RES. DIR. (TENS OF DEGS.)     | 30    | 29    | 31    | 32    | 24    | 24    | 03    | 35    | 29    | 32    | 29    | 30     | 30        |  |
|                          | MEAN SPEED (MPH)              | 11.5  | 9.1   | 11.0  | 10.8  | 8.7   | 9.4   | 7.7   | 8.3   | 8.2   | 8.2   | 9.8   | 10.7   | 9.4       |  |
|                          | PREVAIL. DIR. (TENS OF DEGS.) | 32    | 31    | 32    | 07    | 07    | 23    | 20    | 19    | 23    | 32    | 29    | 29     | 23        |  |
|                          | MAXIMUM 2-MINUTE WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                   | 43    | 29    | 34    | 37    | 36    | 31    | 32    | 30    | 30    | 32    | 31    | 45     | 45        |  |
|                          | DIR. (TENS OF DEGS.)          | 27    | 29    | 26    | 28    | 29    | 30    | 16    | 23    | 30    | 34    | 32    | 27     | 27        |  |
|                          | DATE OF OCCURRENCE            | 11    | 28+   | 29+   | 09    | 13    | 18    | 16    | 02    | 21    | 28    | 30    | 12     | DEC 12    |  |
|                          | MAXIMUM 5-SECOND WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                   | 51    | 38    | 41    | 51    | 45    | 40    | 38    | 37    | 36    | 37    | 38    | 53     | 53        |  |
| DIR. (TENS OF DEGS.)     | 30                            | 22    | 33    | 28    | 28    | 28    | 15    | 23    | 30    | 34    | 33    | 28    | 28     |           |  |
| DATE OF OCCURRENCE       | 11                            | 14    | 12    | 09    | 13    | 18    | 16    | 02    | 21    | 28    | 30+   | 12    | DEC 12 |           |  |
| PRECIPITATION            | WATER EQUIVALENT:             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                   | 3.22  | 2.02  | 6.32  | 3.05  | 3.03  | 3.82  | 5.54  | 2.90  | 8.28  | 1.51  | 2.21  | 2.82   | 44.72     |  |
|                          | GREATEST 24-HOUR (IN.)        | 1.03  | 1.17  | 3.08  | 0.93  | 0.65  | 1.01  | 1.91  | 0.93  | 2.77  | 1.07  | 1.05  | 0.91   | 3.08      |  |
|                          | DATE OF OCCURRENCE            | 25    | 18-19 | 21-22 | 16-17 | 10    | 18    | 26-27 | 11-12 | 03-04 | 04-05 | 25-26 | 14     | MAR 21-22 |  |
|                          | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PRECIPITATION ≥ 0.01     | 6                             | 10    | 8     | 14    | 13    | 10    | 15    | 15    | 11    | 4     | 7     | 9     | 122    |           |  |
| PRECIPITATION ≥ 0.10     | 5                             | 5     | 8     | 7     | 9     | 6     | 8     | 7     | 6     | 2     | 6     | 4     | 73     |           |  |
| PRECIPITATION ≥ 1.00     | 1                             | 0     | 1     | 0     | 0     | 1     | 2     | 0     | 4     | 1     | 0     | 0     | 10     |           |  |
| SNOWFALL                 | SNOW, ICE PELLETS, HAIL:      |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                   | 13.7  | 5.7   | 0.0   | 1.6   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 10.5   | 31.5      |  |
|                          | GREATEST 24-HOUR (IN.)        | 8.5   | 3.6   | 0.0   | 1.6   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.0    | 9.0       |  |
|                          | DATE OF OCCURRENCE            | 25    | 18    | 09    | 09    | 24    | 0     | 0     | 0     | 0     | 0     | 0     | 30     | DEC 30    |  |
|                          | MAXIMUM SNOW DEPTH (IN.)      | 9     | 5     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 9      | 9         |  |
|                          | DATE OF OCCURRENCE            | 26    | 05    | 09    | 09    | 09    | 0     | 0     | 0     | 0     | 0     | 0     | 31     | DEC 31    |  |
| NUMBER OF DAYS WITH:     |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SNOWFALL ≥ 1.0           | 3                             | 2     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 7      |           |  |

# NORMALS, MEANS, AND EXTREMES

PHILADELPHIA, PA (PHL)

LATITUDE: 39° 52' 06" N      LONGITUDE: 75° 13' 52" W      ELEVATION (FT): GRND: 60      BARO: 60      TIME ZONE: EASTERN (UTC + 5)      WBAN: 13739

| ELEMENT             |                             | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|---------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F      | NORMAL DAILY MAXIMUM        | 30   | 37.9  | 41.0  | 51.6  | 62.6  | 73.1  | 81.7  | 86.1  | 84.6  | 77.6  | 66.3  | 55.1  | 43.4     | 63.4     |
|                     | MEAN DAILY MAXIMUM          | 53   | 39.6  | 42.4  | 51.3  | 63.3  | 73.3  | 82.2  | 86.5  | 84.7  | 77.5  | 66.7  | 55.1  | 43.8     | 63.9     |
|                     | HIGHEST DAILY MAXIMUM       | 59   | 74    | 74    | 87    | 94    | 97    | 100   | 104   | 101   | 100   | 96    | 81    | 73       | 104      |
|                     | YEAR OF OCCURRENCE          |      | 1950  | 1997  | 1945  | 1976  | 1991  | 1994  | 1966  | 1955  | 1953  | 1941  | 1993  | 1998     | JUL 1966 |
|                     | MEAN OF EXTREME MAXS.       | 53   | 59.8  | 61.9  | 73.3  | 82.5  | 88.6  | 93.5  | 95.9  | 93.8  | 90.4  | 81.8  | 72.4  | 63.1     | 79.8     |
|                     | NORMAL DAILY MINIMUM        | 30   | 22.8  | 24.8  | 33.2  | 42.1  | 52.7  | 61.8  | 67.2  | 66.3  | 58.7  | 46.4  | 37.6  | 28.1     | 45.1     |
|                     | MEAN DAILY MINIMUM          | 53   | 24.5  | 26.4  | 33.4  | 42.9  | 52.9  | 62.1  | 67.8  | 66.4  | 58.9  | 47.3  | 37.7  | 28.8     | 45.8     |
|                     | LOWEST DAILY MINIMUM        | 59   | -7    | -4    | 7     | 19    | 28    | 44    | 51    | 44    | 35    | 25    | 15    | 1        | -7       |
|                     | YEAR OF OCCURRENCE          |      | 1984  | 1961  | 1984  | 1982  | 1966  | 1984  | 1966  | 1986  | 1963  | 1969  | 1976  | 1983     | JAN 1984 |
|                     | MEAN OF EXTREME MINS.       | 53   | 8.6   | 10.3  | 18.6  | 29.9  | 40.6  | 50.2  | 57.5  | 55.3  | 44.2  | 33.3  | 23.7  | 13.9     | 32.2     |
|                     | NORMAL DRY BULB             | 30   | 30.4  | 33.0  | 42.4  | 52.4  | 62.9  | 71.8  | 76.7  | 75.5  | 68.2  | 56.4  | 46.4  | 35.8     | 54.3     |
|                     | MEAN DRY BULB               | 53   | 32.1  | 34.4  | 42.3  | 53.0  | 63.0  | 72.1  | 77.1  | 75.6  | 68.2  | 57.0  | 46.5  | 36.3     | 54.8     |
|                     | MEAN WET BULB               | 17   | 30.3  | 32.1  | 38.3  | 46.9  | 56.8  | 65.3  | 70.0  | 68.5  | 62.3  | 52.3  | 42.6  | 33.8     | 49.9     |
|                     | MEAN DEW POINT              | 17   | 23.2  | 24.4  | 30.1  | 39.7  | 50.6  | 60.2  | 65.7  | 64.3  | 57.8  | 47.2  | 36.4  | 26.7     | 43.9     |
|                     | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| MAXIMUM ≥ 90°       | 30                          | 0.0  | 0.0   | 0.0   | 0.4   | 0.8   | 4.0   | 8.8   | 6.4   | 1.9   | 0.0   | 0.0   | 0.0   | 22.3     |          |
| MAXIMUM ≤ 32°       | 30                          | 9.4  | 5.7   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 4.2   | 20.1     |          |
| MINIMUM ≤ 32°       | 30                          | 26.2 | 22.3  | 14.0  | 2.6   | *     | 0.0   | 0.0   | 0.0   | 0.0   | 1.5   | 8.5   | 21.2  | 96.3     |          |
| MINIMUM ≤ 0°        | 30                          | 0.5  | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6      |          |
| H/C                 | NORMAL HEATING DEG. DAYS    | 30   | 1073  | 896   | 701   | 378   | 123   | 5     | 0     | 0     | 32    | 283   | 558   | 905      | 4954     |
|                     | NORMAL COOLING DEG. DAYS    | 30   | 0     | 0     | 0     | 0     | 58    | 209   | 363   | 326   | 128   | 17    | 0     | 0        | 1101     |
| RH                  | NORMAL (PERCENT)            | 30   | 66    | 64    | 62    | 60    | 65    | 68    | 70    | 70    | 72    | 71    | 68    | 68       | 67       |
|                     | HOUR 01 LST                 | 30   | 70    | 68    | 68    | 69    | 76    | 80    | 81    | 82    | 82    | 81    | 75    | 72       | 75       |
|                     | HOUR 07 LST                 | 30   | 73    | 71    | 72    | 70    | 74    | 77    | 79    | 81    | 83    | 83    | 78    | 74       | 76       |
|                     | HOUR 13 LST                 | 30   | 59    | 55    | 52    | 49    | 53    | 54    | 54    | 55    | 56    | 54    | 56    | 59       | 55       |
|                     | HOUR 19 LST                 | 30   | 65    | 61    | 57    | 54    | 59    | 61    | 63    | 65    | 69    | 69    | 66    | 67       | 63       |
| S                   | PERCENT POSSIBLE SUNSHINE   | 58   | 49    | 53    | 55    | 55    | 56    | 62    | 61    | 62    | 59    | 59    | 52    | 49       | 56       |
| W/O                 | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                     | HEAVY FOG (VISBY ≤ 1/4 MI)  | 61   | 2.6   | 2.3   | 1.7   | 1.2   | 1.3   | 1.0   | 0.8   | 1.0   | 1.5   | 3.0   | 2.3   | 2.5      | 21.2     |
|                     | THUNDERSTORMS               | 61   | 0.3   | 0.3   | 1.0   | 2.0   | 4.1   | 5.1   | 5.5   | 4.8   | 2.4   | 0.8   | 0.6   | 0.2      | 27.1     |
| CLOUDINESS          | MEAN:                       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                     | SUNRISE-SUNSET (OKTAS)      | 1    |       |       | 6.4   |       |       | 5.6   |       |       |       |       |       |          |          |
|                     | MIDNIGHT-MIDNIGHT (OKTAS)   | 1    |       |       | 5.6   |       |       |       |       |       |       |       |       |          |          |
|                     | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                     | CLEAR                       | 1    | 3.0   | 2.0   | 8.0   |       | 8.0   | 11.0  |       |       |       |       |       |          |          |
| PARTLY CLOUDY       | 1                           |      | 1.0   | 4.0   |       | 5.0   | 3.0   |       |       |       |       |       |       |          |          |
| CLOUDY              | 1                           | 3.0  | 6.0   | 8.0   |       | 7.0   | 9.0   |       |       |       |       |       |       |          |          |
| PR                  | MEAN STATION PRESSURE (IN)  | 28   | 30.05 | 30.05 | 30.00 | 29.95 | 29.95 | 29.95 | 29.97 | 30.01 | 30.05 | 30.07 | 30.06 | 30.06    | 30.01    |
|                     | MEAN SEA-LEVEL PRES. (IN)   | 17   | 30.10 | 30.08 | 30.05 | 29.97 | 29.98 | 29.97 | 29.99 | 30.03 | 30.06 | 30.10 | 30.10 | 30.10    | 30.04    |
| WINDS               | MEAN SPEED (MPH)            | 60   | 10.4  | 10.9  | 11.4  | 10.9  | 9.6   | 8.8   | 8.2   | 7.9   | 8.4   | 8.9   | 9.7   | 10.1     | 9.6      |
|                     | PREVAIL. DIR (TENS OF DEGS) | 37   | 29    | 30    | 29    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 29    | 29       | 23       |
|                     | MAXIMUM 2-MINUTE:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                     | SPEED (MPH)                 | 5    | 44    | 43    | 40    | 37    | 40    | 51    | 41    | 41    | 39    | 36    | 40    | 45       | 51       |
|                     | DIR. (TENS OF DEGS)         |      | 28    | 29    | 27    | 28    | 31    | 30    | 33    | 25    | 32    | 35    | 28    | 27       | 30       |
|                     | YEAR OF OCCURRENCE          |      | 1999  | 1996  | 1996  | 2000  | 1997  | 1998  | 1999  | 1997  | 1998  | 1996  | 1996  | 2000     | JUN 1998 |
|                     | MAXIMUM 5-SECOND:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SPEED (MPH)         | 5                           | 57   | 52    | 52    | 51    | 51    | 71    | 46    | 52    | 49    | 46    | 52    | 53    | 71       |          |
| DIR. (TENS OF DEGS) |                             | 18   | 31    | 26    | 28    | 29    | 30    | 32    | 24    | 31    | 35    | 27    | 28    | 30       |          |
| YEAR OF OCCURRENCE  |                             | 1996 | 1996  | 1996  | 2000  | 1997  | 1998  | 1999  | 1997  | 1996  | 1996  | 1996  | 2000  | JUN 1998 |          |
| PRECIPITATION       | NORMAL (IN)                 | 30   | 3.21  | 2.79  | 3.46  | 3.62  | 3.75  | 3.74  | 4.28  | 3.80  | 3.42  | 2.62  | 3.34  | 3.38     | 41.41    |
|                     | MAXIMUM MONTHLY (IN)        | 58   | 8.86  | 6.44  | 7.01  | 8.12  | 7.41  | 7.88  | 10.42 | 9.70  | 13.07 | 5.99  | 9.06  | 8.47     | 13.07    |
|                     | YEAR OF OCCURRENCE          |      | 1978  | 1979  | 1980  | 1983  | 1948  | 1973  | 1994  | 1955  | 1999  | 1995  | 1972  | 1996     | SEP 1999 |
|                     | MINIMUM MONTHLY (IN)        | 58   | 0.45  | 0.75  | 0.68  | 0.52  | 0.47  | 0.11  | 0.64  | 0.49  | 0.44  | 0.09  | 0.32  | 0.25     | 0.09     |
|                     | YEAR OF OCCURRENCE          |      | 1955  | 1991  | 1966  | 1985  | 1964  | 1949  | 1957  | 1964  | 1968  | 1963  | 1976  | 1955     | OCT 1963 |
|                     | MAXIMUM IN 24 HOURS (IN)    | 54   | 2.70  | 1.96  | 3.08  | 2.76  | 3.18  | 4.62  | 4.49  | 5.68  | 6.77  | 3.85  | 3.99  | 3.03     | 6.77     |
|                     | YEAR OF OCCURRENCE          |      | 1979  | 1966  | 2000  | 1970  | 1984  | 1973  | 1989  | 1971  | 1999  | 1980  | 1977  | 1992     | SEP 1999 |
|                     | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                     | PRECIPITATION ≥ 0.01        | 30   | 10.4  | 9.8   | 10.0  | 10.6  | 11.2  | 10.0  | 9.1   | 8.7   | 7.9   | 7.3   | 9.9   | 10.5     | 115.4    |
|                     | PRECIPITATION ≥ 1.00        | 30   | 0.8   | 0.6   | 1.0   | 0.9   | 0.9   | 1.0   | 1.4   | 1.2   | 1.0   | 0.7   | 0.9   | 0.8      | 11.2     |
| SNOWFALL            | NORMAL (IN)                 | 30   | 7.8   | 7.5   | 3.3   | 0.5   | T     | 0.0   | 0.0   | 0.0   | 0.1   | 0.6   | 3.4   | 23.2     |          |
|                     | MAXIMUM MONTHLY (IN)        | 57   | 23.4  | 27.6  | 13.4  | 4.3   | T     | T     | 0.0   | 0.0   | 0.0   | 2.1   | 8.8   | 18.8     |          |
|                     | YEAR OF OCCURRENCE          |      | 1978  | 1979  | 1958  | 1971  | 1963  | 1993  |       |       | 1979  | 1953  | 1966  | FEB 1979 |          |
|                     | MAXIMUM IN 24 HOURS (IN)    | 57   | 13.2  | 21.3  | 12.0  | 4.3   | T     | T     | 0.0   | 0.0   | 0.0   | 2.1   | 8.7   | 14.6     |          |
|                     | YEAR OF OCCURRENCE          |      | 1961  | 1983  | 1993  | 1971  | 1963  | 1993  |       |       | 1979  | 1953  | 1960  | FEB 1983 |          |
|                     | MAXIMUM SNOW DEPTH (IN)     | 52   | 12    | 22    | 12    | 3     | 0     | 0     | 0     | 0     | 0     | 8     | 12    | 22       |          |
|                     | YEAR OF OCCURRENCE          |      | 1961  | 1983  | 1993  | 1997  |       |       |       |       |       | 1953  | 1966  | FEB 1983 |          |
|                     | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SNOWFALL ≥ 1.0      | 30                          | 2.3  | 1.8   | 1.0   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.*   | 0.2   | 0.9   | 6.4      |          |

PRECIPITATION (inches) 2000 PHILADELPHIA, PA (PHL)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG  | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|-------|------|-------|------|------|------|--------|
| 1971            | 2.13 | 5.43 | 2.58 | 1.84 | 4.10 | 1.01 | 4.84  | 9.61 | 5.83  | 3.84 | 5.37 | 1.21 | 47.79  |
| 1972            | 2.34 | 5.09 | 2.69 | 4.08 | 4.11 | 5.79 | 2.62  | 3.76 | 1.12  | 3.77 | 9.06 | 5.20 | 49.63  |
| 1973            | 3.93 | 2.96 | 3.52 | 6.68 | 4.14 | 7.88 | 2.39  | 2.03 | 3.39  | 2.16 | 0.64 | 6.34 | 46.06  |
| 1974            | 2.95 | 2.14 | 4.91 | 2.77 | 3.21 | 4.43 | 2.08  | 3.83 | 4.68  | 1.93 | 0.81 | 4.04 | 37.78  |
| 1975            | 4.00 | 2.91 | 4.68 | 2.97 | 4.99 | 7.57 | 6.32  | 2.21 | 7.21  | 3.24 | 3.14 | 2.89 | 52.13  |
| 1976            | 4.50 | 1.66 | 2.38 | 2.06 | 4.35 | 3.42 | 4.04  | 2.17 | 2.44  | 4.30 | 0.32 | 1.63 | 33.27  |
| 1977            | 2.61 | 1.33 | 4.19 | 5.59 | 0.70 | 5.33 | 1.47  | 8.70 | 3.44  | 3.11 | 7.76 | 5.19 | 49.42  |
| 1978            | 8.86 | 1.35 | 4.31 | 1.76 | 6.01 | 1.75 | 5.27  | 6.04 | 1.59  | 1.20 | 2.20 | 5.61 | 45.95  |
| 1979            | 8.74 | 6.44 | 2.43 | 4.08 | 3.98 | 4.34 | 3.95  | 5.95 | 4.89  | 3.84 | 2.48 | 1.67 | 52.79  |
| 1980            | 2.27 | 0.96 | 7.01 | 4.79 | 3.22 | 1.73 | 6.58  | 0.80 | 2.79  | 5.03 | 2.85 | 0.77 | 38.80  |
| 1981            | 0.50 | 2.94 | 1.61 | 3.60 | 4.53 | 4.40 | 4.54  | 5.11 | 2.83  | 2.68 | 0.95 | 4.14 | 37.83  |
| 1982            | 4.45 | 3.16 | 2.66 | 6.06 | 4.47 | 5.76 | 1.94  | 2.20 | 2.32  | 1.94 | 3.67 | 1.80 | 40.43  |
| 1983            | 2.81 | 3.53 | 6.70 | 8.12 | 7.03 | 2.75 | 0.68  | 2.57 | 3.45  | 3.69 | 5.71 | 7.37 | 54.41  |
| 1984            | 2.22 | 2.81 | 6.14 | 4.25 | 6.87 | 2.85 | 6.99  | 3.28 | 1.96  | 2.56 | 1.56 | 2.17 | 43.66  |
| 1985            | 1.55 | 2.44 | 1.95 | 0.52 | 4.99 | 1.88 | 4.66  | 2.82 | 5.78  | 1.54 | 6.09 | 0.98 | 35.20  |
| 1986            | 4.13 | 3.38 | 1.25 | 4.46 | 0.70 | 1.99 | 4.10  | 3.70 | 2.33  | 2.22 | 6.27 | 5.89 | 40.42  |
| 1987            | 4.58 | 1.17 | 1.16 | 3.63 | 3.15 | 2.01 | 4.82  | 3.72 | 2.78  | 2.62 | 2.08 | 1.68 | 33.40  |
| 1988            | 2.72 | 4.11 | 2.24 | 2.92 | 3.67 | 0.57 | 8.07  | 3.16 | 2.62  | 2.16 | 5.17 | 1.00 | 38.41  |
| 1989            | 2.41 | 3.25 | 4.41 | 2.27 | 6.76 | 4.73 | 9.44  | 3.92 | 5.03  | 3.44 | 1.79 | 1.21 | 48.66  |
| 1990            | 4.09 | 1.44 | 2.59 | 3.16 | 6.08 | 3.39 | 2.62  | 4.07 | 1.71  | 1.68 | 1.17 | 3.79 | 35.79  |
| 1991            | 4.10 | 0.75 | 4.13 | 2.81 | 1.82 | 3.36 | 4.79  | 3.86 | 3.58  | 1.61 | 1.55 | 3.86 | 36.22  |
| 1992            | 0.88 | 1.31 | 3.19 | 1.26 | 2.74 | 1.84 | 5.05  | 2.00 | 3.04  | 1.23 | 3.26 | 4.61 | 30.41  |
| 1993            | 1.97 | 3.03 | 6.61 | 4.20 | 2.42 | 1.52 | 1.98  | 5.18 | 6.66  | 2.69 | 2.23 | 3.69 | 42.18  |
| 1994            | 4.27 | 3.27 | 6.44 | 2.86 | 3.66 | 1.74 | 10.42 | 4.54 | 1.64  | 0.94 | 3.03 | 2.11 | 44.92  |
| 1995            | 3.10 | 2.41 | 1.67 | 1.96 | 2.67 | 0.62 | 2.92  | 1.15 | 3.55  | 5.99 | 3.34 | 2.15 | 31.53  |
| 1996            | 4.39 | 2.12 | 4.27 | 4.48 | 3.25 | 4.73 | 8.17  | 4.29 | 4.95  | 4.30 | 3.03 | 8.47 | 56.45  |
| 1997            | 2.80 | 2.48 | 3.91 | 2.58 | 2.32 | 1.49 | 2.38  | 4.56 | 1.59  | 1.83 | 3.49 | 3.09 | 32.52  |
| 1998            | 4.24 | 3.25 | 3.93 | 2.70 | 3.87 | 4.91 | 1.79  | 1.26 | 1.86  | 1.84 | 1.18 | 0.82 | 31.65  |
| 1999            | 4.89 | 2.95 | 4.02 | 3.31 | 3.70 | 1.16 | 1.22  | 5.32 | 13.07 | 3.55 | 2.31 | 2.99 | 48.49  |
| 2000            | 3.22 | 2.02 | 6.32 | 3.05 | 3.03 | 3.82 | 5.54  | 2.90 | 8.28  | 1.51 | 2.21 | 2.82 | 44.72  |
| POR=<br>129 YRS | 3.24 | 3.01 | 3.58 | 3.33 | 3.43 | 3.52 | 4.22  | 4.27 | 3.33  | 2.69 | 3.08 | 3.12 | 40.82  |

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AVERAGE TEMPERATURE (°F) 2000 PHILADELPHIA, PA (PHL)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1971            | 27.8 | 36.1 | 40.7 | 51.6 | 60.9 | 74.3 | 77.4 | 75.3 | 71.6 | 63.5 | 46.1 | 41.6 | 55.6   |
| 1972            | 35.1 | 32.4 | 40.7 | 49.7 | 63.6 | 68.7 | 77.1 | 76.0 | 69.2 | 52.7 | 43.6 | 39.9 | 54.1   |
| 1973            | 34.4 | 33.6 | 47.2 | 53.4 | 60.3 | 74.6 | 77.9 | 78.8 | 70.7 | 59.2 | 48.0 | 38.6 | 56.4   |
| 1974            | 35.9 | 31.7 | 43.3 | 55.8 | 62.4 | 70.3 | 76.9 | 76.8 | 68.1 | 54.8 | 48.5 | 39.4 | 55.3   |
| 1975            | 37.3 | 35.8 | 41.2 | 48.7 | 66.6 | 72.2 | 76.6 | 77.1 | 66.6 | 61.2 | 52.7 | 36.9 | 56.1   |
| 1976            | 28.7 | 40.9 | 46.3 | 56.6 | 62.7 | 75.2 | 75.3 | 74.8 | 67.3 | 52.5 | 39.9 | 30.3 | 54.2   |
| 1977            | 20.0 | 33.6 | 48.8 | 57.2 | 65.8 | 68.6 | 77.8 | 76.2 | 69.9 | 54.3 | 46.4 | 32.6 | 54.3   |
| 1978            | 28.0 | 24.7 | 39.0 | 50.6 | 61.4 | 72.6 | 75.6 | 79.2 | 68.5 | 55.5 | 47.9 | 38.6 | 53.5   |
| 1979            | 32.5 | 23.0 | 47.0 | 52.3 | 66.4 | 69.1 | 76.2 | 75.5 | 68.5 | 54.9 | 50.1 | 38.2 | 54.5   |
| 1980            | 31.8 | 29.7 | 40.2 | 54.7 | 65.4 | 70.6 | 78.5 | 80.0 | 72.2 | 54.9 | 43.2 | 32.5 | 54.5   |
| 1981            | 25.3 | 37.9 | 40.0 | 54.7 | 62.6 | 72.0 | 76.9 | 74.9 | 66.8 | 53.1 | 45.6 | 34.6 | 53.7   |
| 1982            | 24.7 | 34.4 | 41.7 | 50.2 | 65.9 | 68.7 | 76.9 | 73.5 | 67.6 | 56.9 | 48.4 | 41.3 | 54.2   |
| 1983            | 34.1 | 34.0 | 43.7 | 51.0 | 62.1 | 72.0 | 77.9 | 77.1 | 69.0 | 56.6 | 46.7 | 33.2 | 54.8   |
| 1984            | 26.2 | 38.7 | 35.5 | 50.2 | 60.2 | 73.0 | 73.9 | 75.2 | 64.7 | 61.2 | 44.4 | 41.9 | 53.8   |
| 1985            | 27.3 | 35.3 | 44.6 | 55.5 | 64.5 | 68.8 | 75.4 | 74.1 | 69.1 | 59.3 | 51.3 | 33.3 | 54.9   |
| 1986            | 32.8 | 32.1 | 44.5 | 53.3 | 66.8 | 73.8 | 78.1 | 74.0 | 68.3 | 57.8 | 44.5 | 37.9 | 55.3   |
| 1987            | 31.9 | 32.5 | 45.7 | 53.1 | 63.9 | 74.6 | 79.5 | 75.4 | 68.8 | 52.5 | 48.0 | 39.2 | 55.4   |
| 1988            | 27.3 | 34.6 | 44.7 | 51.3 | 63.6 | 72.3 | 80.7 | 78.3 | 66.7 | 51.8 | 47.7 | 35.4 | 54.5   |
| 1989            | 36.5 | 34.8 | 42.3 | 52.4 | 62.4 | 74.7 | 76.3 | 75.6 | 69.7 | 58.3 | 44.9 | 25.5 | 54.5   |
| 1990            | 40.3 | 41.2 | 46.1 | 53.3 | 61.3 | 72.2 | 78.0 | 75.8 | 68.0 | 61.9 | 49.7 | 42.1 | 57.5   |
| 1991            | 35.2 | 40.0 | 46.1 | 55.5 | 70.8 | 75.7 | 79.0 | 79.0 | 69.5 | 58.9 | 47.3 | 39.6 | 58.1   |
| 1992            | 35.7 | 37.5 | 41.6 | 53.2 | 62.5 | 71.3 | 77.1 | 73.5 | 68.4 | 55.2 | 48.0 | 38.8 | 55.2   |
| 1993            | 38.2 | 31.9 | 39.8 | 54.2 | 66.4 | 74.4 | 81.4 | 78.9 | 69.7 | 58.0 | 49.0 | 38.4 | 56.7   |
| 1994            | 27.4 | 33.2 | 42.8 | 59.5 | 62.5 | 78.1 | 82.1 | 74.9 | 68.3 | 57.5 | 51.7 | 41.9 | 56.7   |
| 1995            | 38.2 | 31.5 | 47.3 | 54.5 | 64.3 | 74.3 | 81.5 | 79.9 | 70.4 | 61.4 | 43.0 | 31.6 | 56.5   |
| 1996            | 30.2 | 33.9 | 38.7 | 52.7 | 60.6 | 73.0 | 74.4 | 74.5 | 68.7 | 56.3 | 41.3 | 40.2 | 53.7   |
| 1997            | 32.5 | 40.0 | 44.1 | 51.4 | 59.5 | 71.1 | 77.5 | 73.9 | 67.1 | 57.3 | 44.4 | 38.5 | 54.8   |
| 1998            | 41.0 | 41.8 | 45.5 | 55.3 | 66.2 | 71.5 | 77.5 | 78.0 | 71.8 | 58.3 | 48.2 | 42.0 | 58.1   |
| 1999            | 35.0 | 38.0 | 42.4 | 53.5 | 64.0 | 72.9 | 81.2 | 77.4 | 69.9 | 56.1 | 50.9 | 39.9 | 56.8   |
| 2000            | 32.1 | 37.5 | 48.0 | 52.6 | 64.2 | 72.6 | 74.1 | 74.1 | 66.4 | 57.7 | 45.4 | 31.3 | 54.7   |
| POR=<br>127 YRS | 32.8 | 34.0 | 41.9 | 52.4 | 63.1 | 71.9 | 76.8 | 74.9 | 68.4 | 57.3 | 46.3 | 36.3 | 54.7   |

HEATING DEGREE DAYS (base 65°F) 2000 PHILADELPHIA, PA (PHL)

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1971-72 | 0   | 0   | 17  | 79  | 576 | 719  | 920  | 941  | 748 | 450 | 86  | 26  | 4562  |
| 1972-73 | 0   | 0   | 22  | 378 | 635 | 775  | 940  | 874  | 547 | 359 | 176 | 1   | 4707  |
| 1973-74 | 0   | 0   | 18  | 196 | 507 | 810  | 897  | 926  | 667 | 292 | 128 | 11  | 4452  |
| 1974-75 | 0   | 0   | 46  | 313 | 500 | 786  | 852  | 812  | 732 | 483 | 66  | 4   | 4594  |
| 1975-76 | 0   | 0   | 45  | 152 | 372 | 866  | 1120 | 692  | 572 | 307 | 119 | 13  | 4258  |
| 1976-77 | 0   | 2   | 42  | 387 | 743 | 1069 | 1390 | 873  | 505 | 258 | 73  | 36  | 5378  |
| 1977-78 | 0   | 0   | 24  | 328 | 558 | 998  | 1139 | 1121 | 797 | 423 | 161 | 10  | 5559  |
| 1978-79 | 5   | 0   | 41  | 296 | 507 | 811  | 999  | 1170 | 556 | 378 | 38  | 17  | 4818  |
| 1979-80 | 4   | 7   | 28  | 324 | 439 | 823  | 1021 | 1016 | 763 | 301 | 72  | 17  | 4815  |
| 1980-81 | 0   | 0   | 22  | 320 | 646 | 999  | 1222 | 752  | 768 | 309 | 129 | 4   | 5171  |
| 1981-82 | 0   | 0   | 58  | 364 | 576 | 936  | 1243 | 850  | 714 | 440 | 50  | 25  | 5256  |
| 1982-83 | 0   | 8   | 31  | 277 | 497 | 730  | 951  | 861  | 653 | 423 | 128 | 2   | 4561  |
| 1983-84 | 0   | 0   | 70  | 283 | 540 | 981  | 1196 | 756  | 911 | 438 | 181 | 13  | 5369  |
| 1984-85 | 0   | 0   | 92  | 138 | 613 | 709  | 1161 | 824  | 627 | 306 | 89  | 9   | 4568  |
| 1985-86 | 0   | 0   | 38  | 187 | 407 | 975  | 990  | 914  | 628 | 345 | 77  | 6   | 4567  |
| 1986-87 | 0   | 21  | 23  | 255 | 609 | 838  | 1017 | 904  | 591 | 359 | 129 | 1   | 4747  |
| 1987-88 | 0   | 0   | 20  | 379 | 504 | 796  | 1162 | 876  | 624 | 404 | 105 | 32  | 4902  |
| 1988-89 | 0   | 0   | 35  | 408 | 513 | 908  | 876  | 840  | 700 | 371 | 138 | 0   | 4789  |
| 1989-90 | 0   | 0   | 43  | 220 | 594 | 1219 | 757  | 662  | 588 | 375 | 127 | 6   | 4591  |
| 1990-91 | 2   | 1   | 55  | 171 | 453 | 701  | 920  | 694  | 576 | 296 | 44  | 0   | 3913  |
| 1991-92 | 0   | 0   | 42  | 215 | 527 | 778  | 903  | 789  | 720 | 356 | 124 | 9   | 4463  |
| 1992-93 | 0   | 1   | 49  | 310 | 504 | 804  | 824  | 920  | 773 | 314 | 47  | 6   | 4552  |
| 1993-94 | 0   | 0   | 34  | 219 | 479 | 820  | 1156 | 881  | 681 | 193 | 132 | 0   | 4595  |
| 1994-95 | 0   | 0   | 20  | 231 | 392 | 710  | 824  | 932  | 542 | 318 | 82  | 0   | 4051  |
| 1995-96 | 0   | 0   | 21  | 159 | 656 | 1029 | 1072 | 894  | 809 | 370 | 191 | 7   | 5208  |
| 1996-97 | 0   | 0   | 34  | 265 | 704 | 761  | 999  | 695  | 643 | 401 | 172 | 42  | 4716  |
| 1997-98 | 2   | 0   | 45  | 278 | 612 | 811  | 738  | 644  | 619 | 287 | 67  | 13  | 4116  |
| 1998-99 | 0   | 0   | 14  | 207 | 498 | 706  | 920  | 751  | 691 | 336 | 77  | 3   | 4203  |
| 1999-00 | 0   | 0   | 22  | 275 | 415 | 772  | 1012 | 792  | 519 | 371 | 107 | 15  | 4300  |
| 2000-   | 0   | 0   | 73  | 230 | 584 | 1039 |      |      |     |     |     |     |       |

WBAN : 13739

COOLING DEGREE DAYS (base 65°F) 2000 PHILADELPHIA, PA (PHL)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1971 | 0   | 0   | 0   | 0   | 19  | 292 | 394 | 326 | 223 | 37  | 14  | 0   | 1305   |
| 1972 | 0   | 0   | 3   | 0   | 47  | 143 | 381 | 344 | 153 | 3   | 0   | 0   | 1074   |
| 1973 | 0   | 0   | 0   | 16  | 35  | 294 | 404 | 435 | 193 | 23  | 0   | 0   | 1400   |
| 1974 | 0   | 0   | 0   | 24  | 55  | 179 | 373 | 372 | 145 | 5   | 12  | 0   | 1165   |
| 1975 | 0   | 0   | 0   | 0   | 121 | 224 | 366 | 380 | 98  | 42  | 12  | 0   | 1243   |
| 1976 | 0   | 0   | 0   | 64  | 58  | 326 | 326 | 315 | 115 | 7   | 0   | 0   | 1211   |
| 1977 | 0   | 0   | 10  | 32  | 104 | 150 | 402 | 355 | 175 | 3   | 6   | 0   | 1237   |
| 1978 | 0   | 0   | 0   | 0   | 57  | 244 | 338 | 447 | 153 | 8   | 0   | 0   | 1247   |
| 1979 | 0   | 0   | 6   | 5   | 90  | 146 | 357 | 339 | 137 | 16  | 1   | 0   | 1097   |
| 1980 | 0   | 0   | 0   | 0   | 89  | 194 | 428 | 470 | 244 | 10  | 0   | 0   | 1435   |
| 1981 | 0   | 0   | 0   | 9   | 62  | 224 | 373 | 315 | 119 | 1   | 0   | 0   | 1103   |
| 1982 | 0   | 0   | 0   | 3   | 85  | 142 | 376 | 280 | 115 | 31  | 5   | 0   | 1037   |
| 1983 | 0   | 0   | 0   | 11  | 43  | 217 | 409 | 380 | 199 | 27  | 0   | 0   | 1286   |
| 1984 | 0   | 0   | 0   | 0   | 39  | 260 | 283 | 324 | 90  | 30  | 0   | 0   | 1026   |
| 1985 | 0   | 0   | 0   | 27  | 81  | 133 | 330 | 291 | 166 | 19  | 0   | 0   | 1047   |
| 1986 | 0   | 0   | 0   | 0   | 139 | 278 | 413 | 307 | 129 | 40  | 0   | 0   | 1306   |
| 1987 | 0   | 0   | 0   | 7   | 101 | 295 | 456 | 332 | 142 | 0   | 0   | 0   | 1333   |
| 1988 | 0   | 0   | 0   | 1   | 70  | 259 | 495 | 418 | 93  | 7   | 0   | 0   | 1343   |
| 1989 | 0   | 0   | 1   | 1   | 62  | 298 | 357 | 332 | 192 | 18  | 1   | 0   | 1262   |
| 1990 | 0   | 0   | 9   | 29  | 20  | 226 | 413 | 341 | 152 | 83  | 1   | 0   | 1274   |
| 1991 | 0   | 0   | 1   | 21  | 230 | 327 | 443 | 437 | 183 | 30  | 0   | 0   | 1672   |
| 1992 | 0   | 0   | 0   | 10  | 54  | 205 | 380 | 268 | 158 | 13  | 0   | 0   | 1088   |
| 1993 | 0   | 0   | 0   | 0   | 95  | 298 | 517 | 438 | 181 | 11  | 6   | 0   | 1546   |
| 1994 | 0   | 0   | 0   | 34  | 63  | 401 | 540 | 313 | 125 | 4   | 0   | 0   | 1480   |
| 1995 | 0   | 0   | 0   | 8   | 66  | 284 | 519 | 468 | 189 | 53  | 1   | 0   | 1588   |
| 1996 | 0   | 0   | 0   | 9   | 61  | 257 | 301 | 305 | 151 | 2   | 1   | 0   | 1087   |
| 1997 | 0   | 0   | 0   | 0   | 9   | 230 | 397 | 280 | 113 | 49  | 0   | 0   | 1078   |
| 1998 | 0   | 0   | 20  | 3   | 114 | 216 | 397 | 410 | 223 | 3   | 0   | 0   | 1386   |
| 1999 | 0   | 0   | 0   | 0   | 51  | 246 | 508 | 394 | 177 | 4   | 0   | 0   | 1380   |
| 2000 | 0   | 0   | 0   | 3   | 89  | 251 | 286 | 286 | 123 | 12  | 0   | 0   | 1050   |

SNOWFALL (inches) 2000 PHILADELPHIA, PA (PHL)

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1971-72        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.1  | 3.2  | 8.2  | 0.3  | 0.4 | 0.0 | 0.0 | 12.2  |
| 1972-73        | 0.0 | 0.0 | 0.0 | T   | T   | T    | T    | T    | T    | T   | 0.0 | 0.0 | T     |
| 1973-74        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 4.6  | 4.1  | 12.1 | T    | T   | 0.0 | 0.0 | 20.8  |
| 1974-75        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.8  | 3.9  | 6.6  | 2.3  | T   | 0.0 | 0.0 | 13.6  |
| 1975-76        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1  | 6.4  | 3.1  | 6.9  | 0.0 | 0.0 | 0.0 | 17.5  |
| 1976-77        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 2.8  | 15.7 | 0.2  | T    | 0.0 | 0.0 | 0.0 | 18.7  |
| 1977-78        | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2  | 23.4 | 19.0 | 12.1 | T   | 0.0 | 0.0 | 54.9  |
| 1978-79        | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | T    | 10.1 | 27.6 | T    | T   | 0.0 | 0.0 | 40.2  |
| 1979-80        | 0.0 | 0.0 | 0.0 | 2.1 | T   | 4.9  | 6.1  | 0.4  | 7.4  | T   | 0.0 | 0.0 | 20.9  |
| 1980-81        | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.4  | 5.0  | T    | 8.8  | 0.0 | 0.0 | 0.0 | 15.4  |
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 2.8  | 14.0 | 3.5  | 1.1  | 4.0 | 0.0 | 0.0 | 25.4  |
| 1982-83        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8  | 0.2  | 26.1 | 0.9  | 1.9 | 0.0 | 0.0 | 35.9  |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | T    | 10.5 | T    | 10.3 | T   | 0.0 | 0.0 | 21.6  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.2  | 11.9 | 4.4  | T    | T   | 0.0 | 0.0 | 16.5  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5  | 3.4  | 11.5 | T    | T   | 0.0 | 0.0 | 16.4  |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.4  | 15.2 | 10.1 | T    | T   | 0.0 | 0.0 | 25.7  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.5  | 10.6 | 1.5  | T    | 0.0 | 0.0 | 0.0 | 15.0  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4  | 6.0  | 2.4  | 2.4  | 0.0 | 0.0 | 0.0 | 11.2  |
| 1989-90        | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 5.3  | 1.4  | 0.9  | 2.4  | 2.4 | 0.0 | 0.0 | 17.0  |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4  | 6.5  | 1.0  | 0.7  | 0.0 | 0.0 | 0.0 | 14.6  |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 1.2  | 1.0  | 2.5  | T   | 0.0 | 0.0 | 4.7   |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 1.0  | 10.9 | 12.4 | T   | 0.0 | T   | 24.3  |
| 1993-94        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.9  | 4.1  | 13.2 | 4.9  | 0.0 | 0.0 | 0.0 | 23.1  |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0  | T    | 9.8  | T    | 0.0 | 0.0 | 0.0 | 9.8   |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 7.3  | 33.8 | 12.9 | 7.2  | 2.4 | 0.0 | 0.0 | 65.5  |
| 1996-97        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 1.7  | 4.1  | 5.5  | 1.6 | 0.0 | 0.0 | 12.9  |
| 1997-98        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.2  | 0.5  | T    | 0.1  | 0.0 | 0.0 | T   | 0.8   |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0  | 4.9  | 0.7  | 4.9  | 0.0 | 0.0 | 0.0 | 12.5  |
| 1999-00        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T    | 13.7 | 5.7  | 0.0  | 1.6 | T   |     |       |
| 2000-          | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 |      |      |      |     |     |     |       |
| POR=<br>57 YRS | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 3.1  | 6.0  | 6.3  | 3.4  | 0.3 | T   | T   | 19.8  |

WBAN : 13739

REFERENCE NOTES:

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| <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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
|---|--|

2000  
PHILADELPHIA,  
PENNSYLVANIA (PHL)

The Appalachian Mountains to the west and the Atlantic Ocean to the east have a moderating effect on climate. Periods of very high or very low temperatures seldom last for more than three or four days. Temperatures below zero or above 100 degrees are a rarity. On occasion, the area becomes engulfed with maritime air during the summer months, and high humidity adds to the discomfort of seasonably warm temperatures.

Precipitation is fairly evenly distributed throughout the year with maximum amounts during the late summer months. Much of the summer rainfall is from local thunderstorms and amounts vary in different areas of the city. This is due, in part, to the higher elevations to the west and north. Snowfall amounts are often considerably larger in the northern suburbs than in the central and southern parts of the city. In many cases, the precipitation will change from snow to rain within the city. Single storms of 10 inches or more occur about every five years.

The prevailing wind direction for the summer months is from the southwest, while northwesterly winds prevail during the winter. The annual prevailing direction is from the west-southwest. Destructive velocities are comparatively rare and occur mostly in gustiness during summer thunderstorms. High winds occurring in the winter months, as a rule, come with the advance of cold air after the passage of a deep low pressure system. Only rarely have hurricanes in the vicinity caused widespread damage, primarily because of flooding.

Flood stages in the Schuylkill River normally occur about twice a year. Flood stages seldom last over 12 hours and usually occur after excessive thunderstorms. Flooding rarely occurs on the Delaware River.

# STATION LOCATION

PHILADELPHIA, PENNSYLVANIA

| LOCATION  | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE |        |      |         |              |          |               |                    |                  |            | AUTOMATIC OBSERVING EQUIPMENT *<br>REMARKS  |                            |
|---|---------------|-------------|---|----------------|----------------|-----------------|--------|------|---------|--------------|----------|---------------|--------------------|------------------|------------|---|----------------------------|
|   |               |             |   |                |                | SEA LEVEL       | GROUND |      |         |              |          |               |                    |                  |            |   |                            |
|   |               |             |   |                |                |                 | GROUND | WIND | EXTREME | PSYCHROMETER | SUNSHINE | TIPPING GAUGE | WEIGHING RAIN GAGE | 8 INCH RAIN GAGE | HYGROMETER |   |                            |
| <b>*NOTES:</b><br><b>AIRPORT</b>                |               |             |   |                |                |                 |        |      |         |              |          |               |                    |                  |            |   |                            |
| Administration Building Southwest Airport #     | 6/20/40       | 6/22/45     |   | 39°53'         | 75°14'         | 13              | a58    | 6    | 5       |              |          |               | b3                 | 3                |            | a - 57 feet through 1942.<br>b - Installed 1/1/43.<br># - Name changed to International Airport 4/1/48. |                            |
| Administration Building N. Philadelphia Airport | 6/23/45       | 11/30/45    | 18 mi. NE   | 40°05'         | 75°01'         | 100             | 51     | 6    | 5       |              |          |               |                    | 4                |            |   |                            |
| Administration Building International Airport   | 12/01/45      | 12/22/54    | 18 mi. SW   | 39°53'         | 75°14'         | 13              | 58     | 6    | 5       | *22          | *22      |               | 3                  | 3                |            | * - Changed to roof exposure 10/4/54. WB design wind equipment installed 5/17/49.                       |                            |
| New Terminal Building International Airport     | 12/23/54      | 5/09/55     | 7/8 mi. SW  | 39°53'         | 75°15'         | 13              | 120    | 67   | 66      |              |          |               | 64                 | 64               |            | c - Telepsychrometer (7') 5/9/55-12/31/59. Hygro. comm. 3000' S of tele. site 12/31/59.                 |                            |
| New Terminal Building International Airport     | 5/09/55       | 12/31/59    | 0.2 mi. N   | 39°53'         | 75°15'         | 13              | 120    | 7    | 66      |              |          | 3             | 4                  | 3                |            | d - Removed prior to 12/1968.<br>e - 4 feet to 7/13/70.   |                            |
| New Terminal Building International Airport     | 1/01/60       | 12/01/95    | NA  | 39°53'         | 75°15'         | 5               | 20     | d4   | d55%    |              |          | e64           | e64                | NA               | c4         | NA  | % - Commissioned 6/16/69.  |
| International Airport                           | 12/01/95      | Present     | NA  | 39°52'         | 75°14'         | 60              |        |      |         |              |          |               |                    |                  |            | S   | ASOS Commissioned 12/01/95 |

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\* NOTES: For earlier station history see previous edition.