

2004

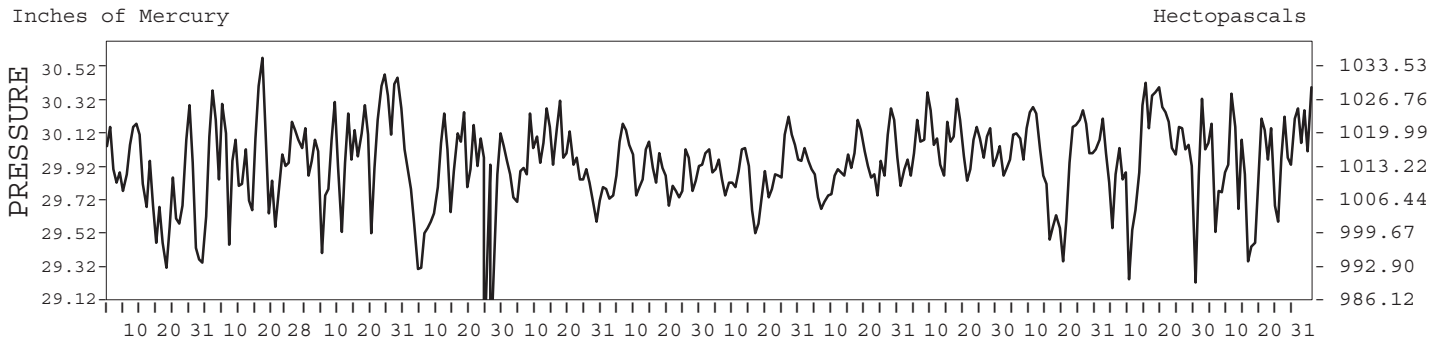
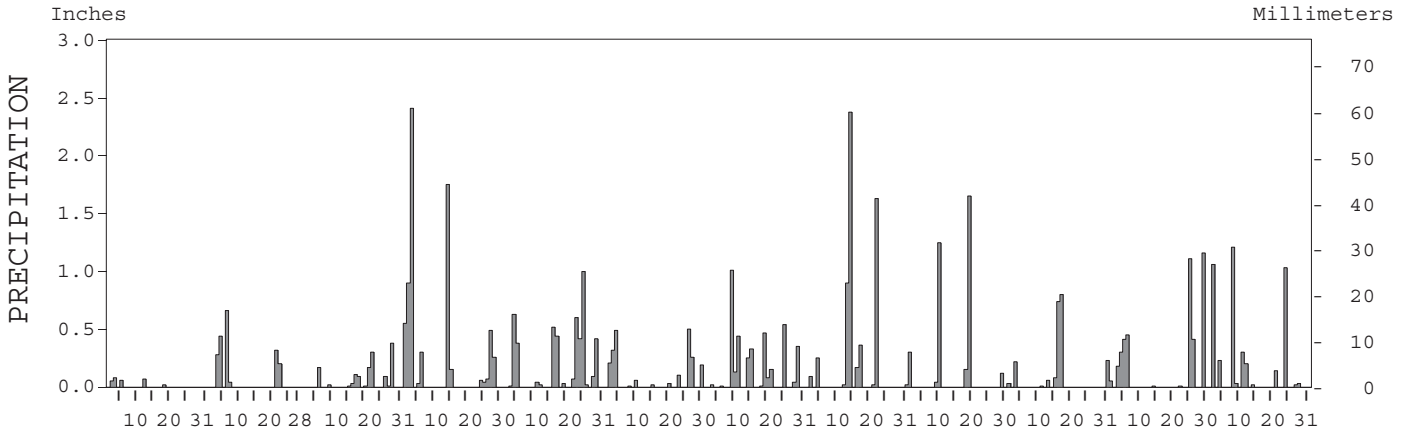
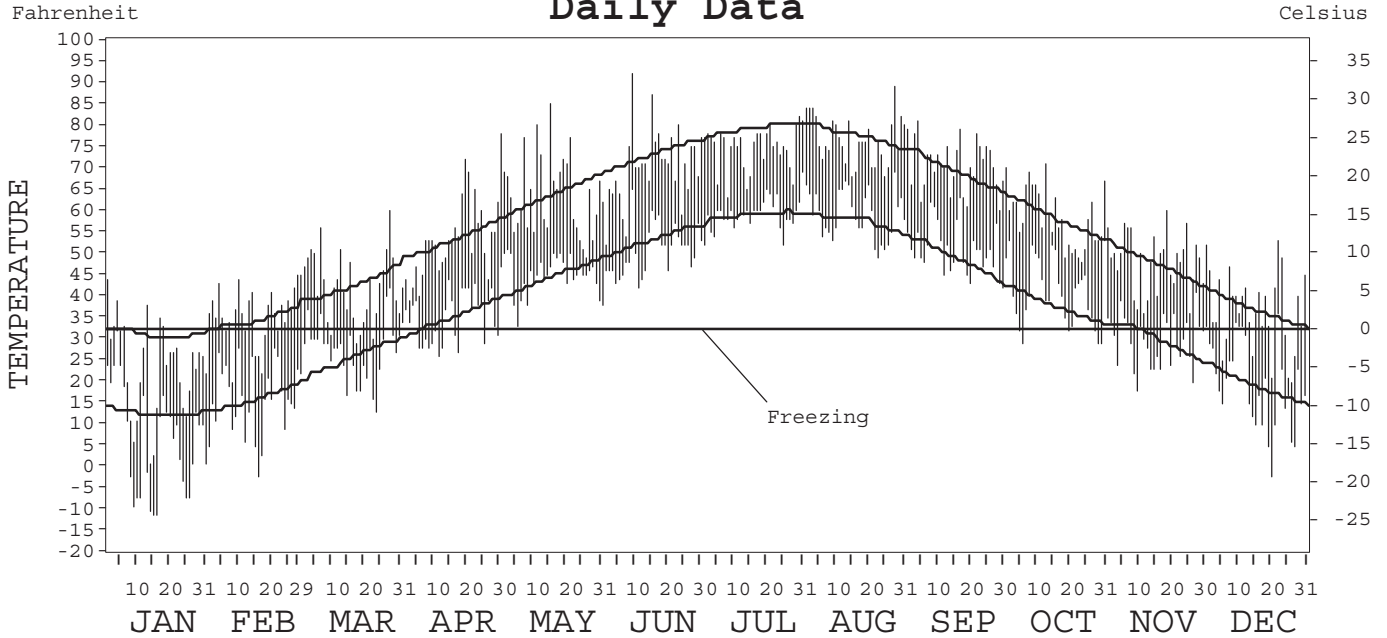
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2370

PORTLAND,
MAINE (PWM)

Daily Data



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Thomas R. Karl

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| NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE | NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA | DIRECTOR NATIONAL CLIMATIC DATA CENTER |
|---|---|---|---|

METEOROLOGICAL DATA FOR 2004

PORTLAND, ME (PWM)

LATITUDE: 43° 38' 32" N LONGITUDE: 70° 18' 16" W ELEVATION (FT): GRND: 69 BARO: 72 TIME ZONE: EASTERN (UTC + 5) WBAN: 14764

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 23.4 | 35.7 | 42.2 | 53.6 | 63.6 | 70.3 | 74.6 | 76.5 | 70.6 | 58.5 | 48.1 | 36.6 | 54.5 | |
| | HIGHEST DAILY MAXIMUM | 44 | 45 | 60 | 78 | 85 | 92 | 82 | 89 | 81 | 71 | 60 | 53 | 92 | |
| | DATE OF OCCURRENCE | 01 | 29+ | 27 | 30 | 15 | 09 | 30 | 28 | 04 | 13 | 19 | 23 | JUN 09 | |
| | MEAN DAILY MINIMUM | 6.6 | 16.0 | 27.5 | 35.3 | 44.8 | 50.7 | 59.1 | 59.1 | 51.1 | 40.8 | 29.6 | 19.4 | 36.7 | |
| | LOWEST DAILY MINIMUM | -11 | -2 | 13 | 26 | 33 | 42 | 52 | 49 | 42 | 29 | 18 | -2 | -11 | |
| | DATE OF OCCURRENCE | 16+ | 16 | 23 | 11 | 05 | 11 | 25+ | 23 | 30 | 30+ | 10 | 21 | JAN 16+ | |
| | AVERAGE DRY BULB | 15.0 | 25.9 | 34.9 | 44.5 | 54.2 | 60.5 | 66.9 | 67.8 | 60.9 | 49.7 | 38.9 | 28.0 | 45.6 | |
| | MEAN WET BULB | 12.6 | | 31.4 | 39.3 | 49.6 | 55.3 | 62.9 | 63.3 | 56.7 | 45.7 | | 26.0 | | |
| | MEAN DEW POINT | 1.3 | | 24.4 | 31.9 | 44.7 | 50.8 | 60.3 | 60.2 | 53.0 | 41.3 | | 19.8 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAXIMUM ≤ 32° | 24 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 44 | |
| MINIMUM ≤ 32° | 31 | 29 | 26 | 12 | 0 | 0 | 0 | 0 | 0 | 6 | 18 | 26 | 26 | 148 | |
| MINIMUM ≤ 0° | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 13 | |
| H/C | HEATING DEGREE DAYS | 1541 | 1128 | 930 | 609 | 329 | 159 | 15 | 20 | 131 | 470 | 776 | 1140 | 7248 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 1 | 31 | 80 | 114 | 16 | 0 | 0 | 0 | 242 | |
| RH | MEAN (PERCENT) | 56 | 57 | 67 | 66 | 74 | 72 | 81 | 78 | 76 | 74 | 69 | 72 | 70 | |
| | HOUR 01 LST | 59 | 62 | 74 | 75 | 85 | 82 | 91 | 87 | 87 | 83 | 75 | 76 | 78 | |
| | HOUR 07 LST | 64 | 67 | 74 | 73 | 76 | 77 | 87 | 84 | 84 | 82 | 79 | 80 | 77 | |
| | HOUR 13 LST | 47 | 47 | 57 | 55 | 61 | 62 | 69 | 65 | 63 | 60 | 54 | 65 | 59 | |
| | HOUR 19 LST | 53 | 55 | 68 | 64 | 76 | 70 | 79 | 78 | 77 | 75 | 68 | 69 | 69 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 2 | 1 | 2 | 3 | 3 | 3 | 9 | 8 | 2 | 3 | 3 | 4 | 43 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 1 | 3 | 3 | 4 | 3 | 0 | 1 | 0 | 0 | 15 | |
| 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.) | 29.79 | 30.00 | 30.07 | | 29.95 | 29.91 | 29.90 | 29.92 | 30.07 | 29.96 | 30.03 | 29.96 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 29.86 | | 30.14 | | 30.01 | 29.97 | 29.96 | 29.99 | 30.13 | | | 30.03 | | |
| WINDS | RESULTANT SPEED (MPH) | 6.7 | 5.0 | 1.4 | 1.6 | 1.6 | 1.5 | 2.1 | 2.3 | 0.7 | 2.3 | | | | |
| | RES. DIR. (TENS OF DEGS.) | 30 | 31 | 31 | 33 | 18 | 23 | 15 | 22 | 26 | 33 | | | | |
| | MEAN SPEED (MPH) | 8.7 | 8.5 | 8.3 | 8.9 | 7.9 | 7.1 | 6.1 | 6.4 | 6.8 | 7.6 | 7.8 | 7.7 | 7.7 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 30 | 32 | 19 | 18 | 19 | 19 | 19 | 19 | 20 | 01 | 35 | 34 | 19 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 38 | 31 | 31 | 36 | 29 | 30 | 21 | 23 | 26 | 28 | 39 | 31 | 39 | |
| | DIR. (TENS OF DEGS.) | 28 | 29 | 28 | 31 | 31 | 30 | 19 | 31 | 07 | 33 | 28 | 17 | 28 | |
| | DATE OF OCCURRENCE | 29 | 11 | 15 | 24 | 29+ | 03 | 23+ | 21+ | 09 | 12 | 05 | 23 | NOV 05 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 45 | 38 | 37 | 43 | 38 | 37 | 28 | 33 | 33 | 39 | 52 | 41 | 52 | |
| DIR. (TENS OF DEGS.) | 28 | 29 | 29 | 31 | 29 | 28 | 19 | 31 | 07 | 31 | 29 | 16 | 29 | | |
| DATE OF OCCURRENCE | 29+ | 11+ | 15 | 24+ | 29 | 03 | 23 | 21 | 09 | 12 | 05 | 23 | NOV 05 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.28 | 1.94 | 1.94 | 6.46 | 4.69 | 2.19 | 3.83 | 6.14 | 3.24 | 2.19 | 4.04 | 4.28 | 41.22 | |
| | GREATEST 24-HOUR (IN.) | 0.13 | 0.67 | 0.55 | 3.06 | 1.02 | 0.76 | 1.03 | 3.02 | 1.80 | 1.23 | 1.24 | 1.24 | 3.06 | |
| | DATE OF OCCURRENCE | 02-03 | 06-07 | 31 | 01-02 | 24-25 | 25-26 | 08-09 | 12-13 | 17-18 | 15-16 | 24-25 | 07-08 | APR 01-02 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 5 | 6 | 13 | 11 | 15 | 11 | 14 | 11 | 6 | 8 | 9 | 12 | 121 | |
| PRECIPITATION ≥ 0.10 | 0 | 5 | 6 | 7 | 8 | 7 | 9 | 7 | 4 | 4 | 7 | 7 | 71 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 3 | 13 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.8 | 12.3 | 6.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 8.8 | 31.5 | |
| | GREATEST 24-HOUR (IN.) | 1.0 | 4.2 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 3.0 | 4.6 | |
| | DATE OF OCCURRENCE | 12 | 06 | 16-17 | 05 | | | | | | | 13 | 03 | MAR 16-17 | |
| | MAXIMUM SNOW DEPTH (IN.) | 1 | 5 | 4 | T | 0 | 0 | 0 | 0 | 0 | 0 | T | 3 | 5 | |
| | DATE OF OCCURRENCE | 13+ | 23+ | 17 | 05 | | | | | | | 13 | 08+ | FEB 23+ | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 14 | | |

NORMALS, MEANS, AND EXTREMES

PORTLAND, ME (PWW)

LATITUDE: 43° 38' 32" N LONGITUDE: 70° 18' 16" W ELEVATION (FT): GRND: 69 BARO: 72 TIME ZONE: EASTERN (UTC + 5) WBAN: 14764

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|----------------------|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 30.9 | 34.1 | 42.2 | 52.8 | 63.3 | 72.8 | 78.8 | 77.3 | 68.9 | 57.9 | 47.1 | 36.4 | 55.2 |
| | MEAN DAILY MAXIMUM | 48 | 30.5 | 33.3 | 41.4 | 52.6 | 63.4 | 73.0 | 78.6 | 77.6 | 69.6 | 58.8 | 47.3 | 36.0 | 55.2 |
| | HIGHEST DAILY MAXIMUM | 64 | 64 | 64 | 88 | 85 | 94 | 98 | 99 | 103 | 95 | 88 | 74 | 71 | 103 |
| | YEAR OF OCCURRENCE | | 1950 | 1957 | 1998 | 1957 | 1987 | 1991 | 1977 | 1975 | 1983 | 1963 | 2003 | 2001 | AUG 1975 |
| | MEAN OF EXTREME MAXS. | 57 | 48.8 | 50.5 | 59.4 | 72.2 | 83.2 | 89.2 | 91.9 | 90.3 | 85.9 | 75.7 | 64.8 | 54.5 | 72.2 |
| | NORMAL DAILY MINIMUM | 30 | 12.5 | 15.6 | 25.2 | 34.7 | 44.2 | 52.9 | 58.6 | 57.2 | 48.5 | 37.4 | 29.5 | 18.7 | 36.3 |
| | MEAN DAILY MINIMUM | 48 | 12.6 | 14.0 | 24.6 | 33.6 | 43.1 | 52.3 | 58.2 | 57.1 | 49.0 | 38.2 | 30.2 | 18.3 | 35.9 |
| | LOWEST DAILY MINIMUM | 64 | -26 | -39 | -21 | 8 | 23 | 33 | 40 | 33 | 23 | 15 | 3 | -21 | -39 |
| | YEAR OF OCCURRENCE | | 1971 | 1943 | 1950 | 1954 | 1956 | 1944 | 1965 | 1965 | 1941 | 1976 | 1989 | 1963 | FEB 1943 |
| | MEAN OF EXTREME MINS. | 57 | -8.9 | -7.0 | 4.2 | 21.8 | 30.6 | 40.5 | 47.7 | 44.6 | 33.7 | 23.7 | 15.0 | -2.4 | 20.3 |
| | NORMAL DRY BULB | 30 | 21.7 | 24.8 | 33.7 | 43.7 | 53.8 | 62.9 | 68.7 | 67.2 | 58.7 | 47.7 | 38.3 | 27.6 | 45.7 |
| | MEAN DRY BULB | 57 | 21.8 | 23.9 | 32.5 | 43.1 | 53.3 | 62.7 | 68.6 | 67.1 | 58.9 | 48.6 | 38.8 | 27.3 | 45.5 |
| | MEAN WET BULB | 51 | 20.1 | 22.0 | 29.5 | 38.5 | 48.3 | 57.3 | 62.9 | 61.8 | 54.9 | 45.0 | 36.0 | 25.0 | 41.8 |
| | MEAN DEW POINT | 51 | 13.1 | 14.5 | 22.3 | 31.9 | 43.0 | 53.3 | 59.3 | 58.5 | 51.5 | 40.5 | 30.8 | 18.8 | 36.5 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.1 | 1.9 | 1.2 | 0.3 | 0.0 | 0.0 | 0.0 | 4.7 | |
| MAXIMUM ≤ 32° | 30 | 16.7 | 12.4 | 4.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 10.4 | 45.1 | |
| MINIMUM ≤ 32° | 30 | 29.6 | 25.9 | 24.3 | 12.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.3 | 8.6 | 19.0 | 28.2 | 149.5 | |
| MINIMUM ≤ 0° | 30 | 5.4 | 3.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 10.4 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1346 | 1141 | 985 | 649 | 361 | 116 | 19 | 37 | 199 | 523 | 790 | 1152 | 7318 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 7 | 51 | 144 | 120 | 24 | 1 | 0 | 0 | 347 |
| RH | NORMAL (PERCENT) | 30 | 68 | 65 | 66 | 67 | 72 | 73 | 74 | 76 | 76 | 74 | 71 | 69 | 71 |
| | HOUR 01 LST | 30 | 72 | 70 | 73 | 76 | 83 | 86 | 87 | 88 | 87 | 83 | 77 | 74 | 80 |
| | HOUR 07 LST | 30 | 75 | 73 | 74 | 72 | 76 | 78 | 80 | 83 | 86 | 84 | 80 | 77 | 78 |
| | HOUR 13 LST | 30 | 59 | 54 | 56 | 54 | 59 | 61 | 60 | 60 | 61 | 58 | 59 | 59 | 58 |
| | HOUR 19 LST | 30 | 66 | 64 | 66 | 66 | 70 | 72 | 73 | 76 | 78 | 74 | 71 | 68 | 70 |
| S | PERCENT POSSIBLE SUNSHINE | 55 | 56 | 60 | 56 | 55 | 54 | 60 | 63 | 64 | 63 | 57 | 48 | 53 | 57 |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG (VISBY ≤ 1/4 MI) | 64 | 2.1 | 2.2 | 3.4 | 3.0 | 4.9 | 5.0 | 6.2 | 5.6 | 5.1 | 4.5 | 3.5 | 2.0 | 47.5 |
| | THUNDERSTORMS | 64 | 0.0 | 0.1 | 0.4 | 0.5 | 1.9 | 4.0 | 4.4 | 3.4 | 1.5 | 0.6 | 0.4 | 0.1 | 17.3 |
| CLOUDINESS | MEAN: SUNRISE-SUNSET (OKTAS) | 1 | | | | | 5.6 | 6.4 | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | | | | | | | | |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 1 | 4.0 | 2.0 | 7.0 | | 7.0 | 6.0 | 1.0 | 9.0 | 3.0 | 8.0 | | 5.0 | |
| PARTLY CLOUDY | 1 | | 1.0 | 3.0 | | 4.0 | 5.0 | 1.0 | 1.0 | 2.0 | | | 4.0 | | |
| CLOUDY | 1 | 4.0 | 5.0 | 7.0 | | 10.0 | 9.0 | 2.0 | 3.0 | 6.0 | 3.0 | | 8.0 | | |
| PR | MEAN STATION PRESSURE (IN) | 32 | 29.93 | 29.93 | 29.92 | 29.88 | 29.89 | 29.87 | 29.88 | 29.94 | 29.97 | 29.99 | 29.96 | 29.94 | 29.92 |
| | MEAN SEA-LEVEL PRES. (IN) | 50 | 29.98 | 29.99 | 29.96 | 29.94 | 29.97 | 29.94 | 29.96 | 29.99 | 30.05 | 30.06 | 30.00 | 30.01 | 29.99 |
| WINDS | MEAN SPEED (MPH) | 44 | 9.2 | 9.4 | 10.1 | 10.0 | 9.0 | 8.4 | 7.7 | 7.6 | 8.0 | 8.5 | 8.9 | 8.8 | 8.8 |
| | PREVAIL. DIR (TENS OF DEGS) | 27 | 36 | 34 | 32 | 18 | 18 | 18 | 18 | 18 | 18 | 34 | 36 | 34 | 18 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 10 | 38 | 45 | 41 | 40 | 37 | 34 | 37 | 57 | 33 | 37 | 41 | 44 | 57 |
| | DIR. (TENS OF DEGS) | | 28 | 08 | 11 | 29 | 28 | 26 | 29 | 28 | 29 | 36 | 10 | 03 | 28 |
| | YEAR OF OCCURRENCE | | 2004 | 1995 | 1999 | 1995 | 2002 | 2000 | 2002 | 1998 | 1995 | 2000 | 1997 | 2002 | AUG 1998 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 10 | 53 | 56 | 54 | 47 | 45 | 44 | 47 | 61 | 41 | 47 | 72 | 52 | 72 |
| DIR. (TENS OF DEGS) | | 16 | 07 | 13 | 29 | 26 | 26 | 28 | 28 | 02 | 12 | 15 | 03 | 15 | |
| YEAR OF OCCURRENCE | | 1996 | 1995 | 2000 | 1995 | 2002 | 2000 | 2002 | 1998 | 1996 | 2003 | 1995 | 2002 | NOV 1995 | |
| PRECIPITATION | NORMAL (IN) | 30 | 4.09 | 3.14 | 4.14 | 4.26 | 3.82 | 3.28 | 3.32 | 3.05 | 3.37 | 4.40 | 4.72 | 4.24 | 45.83 |
| | MAXIMUM MONTHLY (IN) | 64 | 11.92 | 7.10 | 9.97 | 9.90 | 9.64 | 9.01 | 7.48 | 15.22 | 9.81 | 16.83 | 13.50 | 9.69 | 16.83 |
| | YEAR OF OCCURRENCE | | 1979 | 1981 | 1953 | 1973 | 1984 | 1998 | 1976 | 1991 | 1954 | 1996 | 1983 | 1969 | OCT 1996 |
| | MINIMUM MONTHLY (IN) | 64 | 0.28 | 0.04 | 0.81 | 0.28 | 0.49 | 0.70 | 0.61 | 0.27 | 0.30 | 0.26 | 0.90 | 0.98 | 0.04 |
| | YEAR OF OCCURRENCE | | 2004 | 1987 | 1965 | 1999 | 1965 | 1941 | 1965 | 1947 | 1948 | 1947 | 1976 | 1955 | FEB 1987 |
| | MAXIMUM IN 24 HOURS (IN) | 64 | 3.56 | 3.41 | 3.47 | 5.26 | 4.66 | 5.58 | 2.68 | 7.83 | 7.49 | 13.32 | 4.70 | 3.82 | 13.32 |
| | YEAR OF OCCURRENCE | | 1977 | 1981 | 1951 | 1973 | 1989 | 1967 | 1996 | 1991 | 1954 | 1996 | 1990 | 1969 | OCT 1996 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 11.7 | 9.6 | 12.1 | 11.7 | 12.4 | 11.5 | 10.6 | 9.3 | 9.8 | 10.0 | 11.3 | 12.0 | 132.0 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.9 | 0.9 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.9 | 1.2 | 1.4 | 1.2 | 11.2 | |
| SNOWFALL | NORMAL (IN) | 30 | 20.5 | 12.8 | 13.0 | 3.2 | 0.* | 0.0 | 0.0 | 0.0 | 0.* | 0.1 | 3.2 | 13.6 | 66.4 |
| | MAXIMUM MONTHLY (IN) | 63 | 62.4 | 61.2 | 49.0 | 15.9 | 7.0 | 0.0 | T | 0.0 | T | 3.8 | 20.5 | 54.8 | 62.4 |
| | YEAR OF OCCURRENCE | | 1979 | 1969 | 1993 | 1982 | 1945 | | 2002 | | 1992 | 1969 | 1997 | 1970 | JAN 1979 |
| | MAXIMUM IN 24 HOURS (IN) | 63 | 27.1 | 21.5 | 18.6 | 15.9 | 7.0 | 0.0 | T | 0.0 | T | 3.6 | 11.1 | 22.8 | 27.1 |
| | YEAR OF OCCURRENCE | | 1979 | 1969 | 1993 | 1982 | 1945 | | 2002 | | 1992 | 1969 | 1972 | 1970 | JAN 1979 |
| | MAXIMUM SNOW DEPTH (IN) | 52 | 31 | 31 | 33 | 17 | 1 | 0 | 0 | 0 | 0 | 2 | 10 | 40 | 40 |
| | YEAR OF OCCURRENCE | | 1979 | 1967 | 1967 | 1956 | 1966 | | | | | 1969 | 1972 | 1970 | DEC 1970 |
| | NORMAL NO. DAYS WITH: SNOWFALL ≥ 1.0 | 30 | 4.7 | 2.8 | 3.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.8 | 16.3 |

PRECIPITATION (inches) 2004 PORTLAND, ME (PMM)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|-------|------|------|------|------|------|------|-------|------|-------|-------|------|--------|
| 1975 | 4.40 | 2.51 | 3.20 | 3.71 | 1.09 | 4.87 | 2.06 | 3.89 | 4.34 | 4.50 | 6.01 | 8.14 | 48.72 |
| 1976 | 4.44 | 2.84 | 2.47 | 2.42 | 3.99 | 1.53 | 7.48 | 4.87 | 1.86 | 5.37 | 0.90 | 3.22 | 41.39 |
| 1977 | 6.46 | 3.75 | 6.92 | 3.46 | 2.04 | 3.38 | 2.83 | 2.79 | 4.63 | 8.30 | 6.46 | 6.61 | 57.63 |
| 1978 | 6.91 | 0.87 | 4.19 | 4.46 | 4.36 | 2.42 | 1.67 | 2.36 | 0.59 | 3.23 | 2.26 | 3.15 | 36.47 |
| 1979 | 11.92 | 3.50 | 4.17 | 6.48 | 5.15 | 1.97 | 5.90 | 5.53 | 3.28 | 6.71 | 3.95 | 2.59 | 61.15 |
| 1980 | 0.98 | 1.36 | 4.54 | 5.78 | 1.83 | 3.34 | 1.99 | 2.14 | 3.00 | 2.99 | 4.75 | 1.18 | 33.88 |
| 1981 | 0.93 | 7.10 | 1.44 | 3.46 | 2.27 | 4.59 | 5.44 | 2.31 | 6.14 | 4.71 | 2.80 | 4.51 | 45.70 |
| 1982 | 5.17 | 2.53 | 3.20 | 4.54 | 2.91 | 6.75 | 2.61 | 3.35 | 1.90 | 1.93 | 3.61 | 1.18 | 39.68 |
| 1983 | 4.59 | 3.94 | 9.75 | 6.82 | 5.98 | 1.35 | 4.31 | 2.58 | 1.35 | 3.38 | 13.50 | 8.78 | 66.33 |
| 1984 | 2.56 | 4.99 | 5.12 | 4.81 | 9.64 | 3.87 | 3.86 | 2.09 | 0.84 | 3.26 | 3.69 | 3.44 | 48.17 |
| 1985 | 1.03 | 1.54 | 3.15 | 1.25 | 2.03 | 2.74 | 3.30 | 3.18 | 2.97 | 4.07 | 6.36 | 2.39 | 34.01 |
| 1986 | 6.58 | 2.61 | 4.21 | 3.49 | 2.51 | 3.91 | 3.44 | 1.87 | 2.64 | 2.09 | 5.18 | 5.91 | 44.44 |
| 1987 | 5.21 | 0.04 | 4.29 | 6.33 | 2.62 | 5.01 | 1.79 | 2.48 | 4.64 | 2.54 | 3.82 | 2.01 | 40.78 |
| 1988 | 1.97 | 3.34 | 1.85 | 3.68 | 4.27 | 2.36 | 5.89 | 5.24 | 1.50 | 3.47 | 8.84 | 1.21 | 43.62 |
| 1989 | 1.15 | 2.37 | 2.14 | 2.94 | 8.74 | 4.49 | 2.50 | 1.73 | 4.48 | 4.81 | 3.97 | 2.23 | 41.55 |
| 1990 | 3.19 | 2.49 | 1.42 | 5.16 | 5.23 | 4.12 | 3.21 | 1.89 | 3.12 | 7.46 | 7.50 | 7.90 | 52.69 |
| 1991 | 2.91 | 1.85 | 6.19 | 6.71 | 3.77 | 1.47 | 2.35 | 15.22 | 5.44 | 2.83 | 4.34 | 4.06 | 57.14 |
| 1992 | 4.80 | 3.42 | 3.93 | 2.47 | 1.15 | 3.99 | 4.06 | 2.59 | 3.11 | 2.48 | 4.39 | 2.12 | 38.51 |
| 1993 | 2.80 | 3.84 | 6.26 | 5.69 | 1.14 | 2.89 | 2.73 | 1.21 | 4.10 | 3.74 | 4.05 | 5.40 | 43.85 |
| 1994 | 5.34 | 1.29 | 6.71 | 2.94 | 4.87 | 1.25 | 1.73 | 2.82 | 6.60 | 0.63 | 3.67 | 6.20 | 44.05 |
| 1995 | 4.92 | 3.55 | 2.14 | 2.36 | 3.31 | 2.60 | 3.14 | 0.47 | 2.40 | 4.78 | 7.27 | 4.35 | 41.29 |
| 1996 | 5.30 | 3.03 | 2.68 | 6.44 | 3.72 | 1.80 | 6.19 | 0.50 | 3.55 | 16.86 | 1.79 | 6.53 | 58.39 |
| 1997 | 4.59 | 2.59 | 4.05 | 5.21 | 2.41 | 0.76 | 2.01 | 4.15 | 2.68 | 1.37 | 5.22 | 2.57 | 37.61 |
| 1998 | 4.83 | 5.72 | 4.23 | 3.36 | 3.83 | 9.01 | 2.92 | 4.03 | 3.02 | 10.45 | 1.80 | 1.56 | 54.76 |
| 1999 | 5.97 | 3.87 | 4.52 | 0.28 | 4.98 | 0.95 | 1.62 | 1.53 | 8.80 | 3.89 | 2.25 | 2.00 | 40.66 |
| 2000 | 3.41 | 2.90 | 3.66 | 5.44 | 3.07 | 2.06 | 4.03 | 1.81 | 2.46 | 3.17 | 4.19 | 4.49 | 40.69 |
| 2001 | 1.33 | 2.58 | 8.01 | 1.26 | 1.14 | 5.37 | 2.05 | 1.28 | 4.14 | 1.72 | 2.20 | 2.03 | 33.11 |
| 2002 | 2.98 | 2.48 | 4.18 | 3.85 | 4.42 | 4.38 | 3.33 | 1.28 | 3.58 | 4.17 | 5.08 | 4.51 | 44.24 |
| 2003 | 1.14 | 3.51 | 3.65 | 3.20 | 3.12 | 2.15 | 1.50 | 2.10 | 4.68 | 5.60 | 3.06 | 4.54 | 38.25 |
| 2004 | 0.28 | 1.94 | 1.94 | 6.46 | 4.69 | 2.19 | 3.83 | 6.14 | 3.24 | 2.19 | 4.04 | 4.28 | 41.22 |
| POR= 133 YRS | 3.87 | 3.64 | 3.99 | 3.69 | 3.45 | 3.26 | 3.13 | 3.05 | 3.31 | 3.53 | 4.11 | 3.98 | 43.01 |

WBAN : 14764

AVERAGE TEMPERATURE (°F) 2004 PORTLAND, ME (PMM)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1975 | 26.7 | 25.0 | 29.8 | 40.0 | 55.6 | 61.5 | 70.1 | 66.8 | 57.2 | 49.3 | 43.0 | 24.3 | 45.8 |
| 1976 | 15.7 | 28.2 | 31.5 | 45.0 | 52.3 | 65.9 | 65.9 | 65.4 | 57.3 | 43.6 | 36.1 | 19.4 | 43.9 |
| 1977 | 14.6 | 21.9 | 36.2 | 42.4 | 54.4 | 59.0 | 68.2 | 66.6 | 57.6 | 48.1 | 39.4 | 25.4 | 44.5 |
| 1978 | 21.1 | 19.2 | 30.2 | 40.6 | 52.7 | 61.0 | 68.0 | 68.6 | 57.8 | 48.2 | 36.4 | 26.1 | 44.2 |
| 1979 | 23.7 | 15.6 | 35.6 | 42.2 | 55.3 | 62.7 | 69.3 | 64.8 | 57.4 | 47.5 | 42.4 | 29.8 | 45.5 |
| 1980 | 22.7 | 20.5 | 32.0 | 44.3 | 53.7 | 61.0 | 69.6 | 71.2 | 61.5 | 45.9 | 36.2 | 21.3 | 45.0 |
| 1981 | 13.8 | 32.3 | 35.7 | 45.2 | 55.3 | 63.9 | 68.8 | 66.0 | 58.6 | 46.6 | 38.9 | 29.2 | 46.2 |
| 1982 | 15.0 | 23.3 | 32.1 | 42.0 | 54.6 | 58.3 | 69.2 | 64.4 | 59.2 | 48.1 | 41.3 | 32.0 | 45.0 |
| 1983 | 25.2 | 26.2 | 35.8 | 44.4 | 52.0 | 63.8 | 69.7 | 67.6 | 63.0 | 47.9 | 40.2 | 26.1 | 46.8 |
| 1984 | 19.8 | 32.0 | 28.2 | 43.3 | 53.0 | 63.9 | 69.6 | 69.1 | 57.8 | 49.6 | 39.2 | 31.2 | 46.4 |
| 1985 | 16.2 | 26.4 | 34.8 | 44.1 | 53.7 | 61.7 | 69.8 | 66.6 | 60.7 | 50.8 | 39.9 | 24.6 | 45.8 |
| 1986 | 25.0 | 23.4 | 34.6 | 46.5 | 53.6 | 60.9 | 66.3 | 66.2 | 57.4 | 47.9 | 36.3 | 29.6 | 45.6 |
| 1987 | 21.6 | 23.0 | 34.0 | 44.9 | 54.6 | 63.8 | 68.0 | 66.2 | 59.6 | 47.1 | 38.1 | 30.2 | 45.9 |
| 1988 | 21.6 | 25.7 | 34.2 | 43.5 | 54.7 | 63.8 | 71.1 | 71.1 | 59.4 | 46.5 | 41.0 | 26.0 | 46.6 |
| 1989 | 26.8 | 24.0 | 31.6 | 41.1 | 55.6 | 63.9 | 69.4 | 68.0 | 60.5 | 49.8 | 37.3 | 14.1 | 45.2 |
| 1990 | 30.2 | 25.7 | 34.7 | 44.6 | 51.8 | 62.4 | 70.3 | 69.8 | 59.8 | 52.4 | 41.8 | 33.7 | 48.1 |
| 1991 | 23.4 | 29.8 | 37.0 | 45.9 | 58.1 | 65.5 | 70.1 | 69.9 | 58.2 | 50.8 | 40.4 | 26.4 | 48.0 |
| 1992 | 23.9 | 25.9 | 30.9 | 41.4 | 51.9 | 63.4 | 65.8 | 66.8 | 58.9 | 47.3 | 37.6 | 28.9 | 45.2 |
| 1993 | 23.4 | 16.8 | 29.8 | 43.3 | 54.8 | 64.5 | 69.8 | 69.5 | 59.6 | 46.2 | 39.0 | 29.9 | 45.6 |
| 1994 | 14.0 | 19.6 | 33.5 | 44.5 | 52.3 | 66.0 | 72.4 | 66.4 | 58.4 | 49.5 | 41.5 | 31.5 | 45.8 |
| 1995 | 27.1 | 21.2 | 34.8 | 41.2 | 52.1 | 64.1 | 70.0 | 67.4 | 56.4 | 52.4 | 35.7 | 24.5 | 45.6 |
| 1996 | 21.4 | 23.9 | 29.8 | 42.9 | 52.5 | 63.0 | 66.4 | 67.4 | 59.8 | 46.8 | 35.1 | 34.5 | 45.3 |
| 1997 | 23.4 | 28.7 | 30.4 | 41.8 | 51.1 | 63.3 | 69.0 | 67.3 | 58.7 | 47.0 | 36.2 | 29.5 | 45.5 |
| 1998 | 27.1 | 31.3 | 36.7 | 45.8 | 56.8 | 60.7 | 69.5 | 69.5 | 61.2 | 49.2 | 39.4 | 32.5 | 48.3 |
| 1999 | 22.3 | 29.0 | 35.6 | 44.9 | 54.5 | 66.3 | 71.3 | 67.7 | 63.3 | 46.6 | 42.0 | 31.9 | 48.0 |
| 2000 | 21.5 | 26.4 | 37.8 | 43.3 | 53.2 | 63.7 | 67.1 | 67.3 | 59.9 | 48.9 | 40.4 | 24.6 | 46.2 |
| 2001 | 20.6 | 24.3 | 30.6 | 43.3 | 54.9 | 67.2 | 66.5 | 69.4 | 61.0 | 50.2 | 41.4 | 34.8 | 47.0 |
| 2002 | 30.4 | 28.8 | 34.9 | 44.4 | 52.5 | 61.4 | 69.5 | 70.1 | 63.1 | 47.0 | 37.0 | 27.4 | 47.2 |
| 2003 | 16.3 | 20.3 | 31.6 | 40.9 | 52.2 | 62.9 | 69.3 | 68.8 | 61.4 | 48.0 | 40.8 | 29.6 | 45.2 |
| 2004 | 15.0 | 25.9 | 34.9 | 44.5 | 54.2 | 60.5 | 66.9 | 67.8 | 60.9 | 49.7 | 38.9 | 28.0 | 45.6 |
| POR= 130 YRS | 22.2 | 23.6 | 32.4 | 42.9 | 53.3 | 62.4 | 68.3 | 66.7 | 59.4 | 49.3 | 38.6 | 27.1 | 45.5 |

HEATING DEGREE DAYS (base 65°F) 2004 PORTLAND, ME (PMM)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1975-76 | 13 | 59 | 230 | 480 | 653 | 1258 | 1522 | 1061 | 1030 | 594 | 389 | 94 | 7383 |
| 1976-77 | 45 | 73 | 229 | 660 | 858 | 1404 | 1559 | 1199 | 888 | 674 | 354 | 184 | 8127 |
| 1977-78 | 29 | 54 | 233 | 518 | 761 | 1219 | 1353 | 1276 | 1071 | 724 | 377 | 134 | 7749 |
| 1978-79 | 39 | 32 | 230 | 513 | 852 | 1201 | 1272 | 1380 | 905 | 677 | 311 | 97 | 7509 |
| 1979-80 | 21 | 82 | 240 | 539 | 672 | 1083 | 1305 | 1284 | 1018 | 613 | 346 | 163 | 7366 |
| 1980-81 | 16 | 6 | 163 | 584 | 855 | 1349 | 1578 | 910 | 901 | 588 | 312 | 54 | 7316 |
| 1981-82 | 16 | 45 | 189 | 566 | 778 | 1102 | 1543 | 1161 | 1014 | 684 | 320 | 198 | 7616 |
| 1982-83 | 20 | 78 | 185 | 519 | 704 | 1015 | 1225 | 1080 | 895 | 612 | 393 | 101 | 6827 |
| 1983-84 | 8 | 38 | 139 | 527 | 738 | 1198 | 1397 | 949 | 1132 | 642 | 368 | 110 | 7246 |
| 1984-85 | 11 | 13 | 223 | 469 | 767 | 1043 | 1506 | 1076 | 930 | 620 | 347 | 115 | 7120 |
| 1985-86 | 4 | 32 | 157 | 433 | 747 | 1245 | 1236 | 1161 | 935 | 548 | 354 | 138 | 6990 |
| 1986-87 | 47 | 52 | 242 | 523 | 855 | 1092 | 1336 | 1172 | 955 | 597 | 343 | 77 | 7291 |
| 1987-88 | 20 | 58 | 171 | 548 | 798 | 1070 | 1339 | 1130 | 950 | 641 | 323 | 112 | 7160 |
| 1988-89 | 13 | 32 | 180 | 569 | 713 | 1201 | 1174 | 1141 | 1028 | 708 | 286 | 91 | 7136 |
| 1989-90 | 6 | 25 | 167 | 464 | 824 | 1573 | 1071 | 1093 | 935 | 607 | 402 | 107 | 7274 |
| 1990-91 | 12 | 24 | 170 | 388 | 690 | 964 | 1283 | 979 | 861 | 568 | 236 | 76 | 6251 |
| 1991-92 | 11 | 16 | 228 | 433 | 730 | 1191 | 1267 | 1127 | 1051 | 700 | 414 | 84 | 7252 |
| 1992-93 | 47 | 30 | 208 | 543 | 814 | 1112 | 1280 | 1344 | 1084 | 645 | 311 | 81 | 7499 |
| 1993-94 | 15 | 5 | 192 | 575 | 774 | 1080 | 1577 | 1266 | 968 | 609 | 389 | 61 | 7511 |
| 1994-95 | 1 | 35 | 201 | 472 | 697 | 1028 | 1167 | 1216 | 929 | 706 | 391 | 85 | 6928 |
| 1995-96 | 9 | 35 | 265 | 380 | 873 | 1248 | 1343 | 1181 | 1083 | 659 | 384 | 90 | 7550 |
| 1996-97 | 23 | 17 | 179 | 556 | 889 | 940 | 1284 | 1011 | 1065 | 689 | 424 | 135 | 7212 |
| 1997-98 | 11 | 21 | 192 | 554 | 857 | 1093 | 1164 | 938 | 872 | 569 | 264 | 143 | 6678 |
| 1998-99 | 3 | 9 | 124 | 482 | 761 | 1002 | 1314 | 1002 | 903 | 599 | 322 | 61 | 6582 |
| 1999-00 | 6 | 23 | 105 | 563 | 686 | 1020 | 1341 | 1113 | 838 | 645 | 361 | 112 | 6813 |
| 2000-01 | 11 | 18 | 184 | 491 | 729 | 1247 | 1371 | 1134 | 1060 | 643 | 330 | 57 | 7275 |
| 2001-02 | 32 | 15 | 140 | 456 | 702 | 928 | 1066 | 1006 | 927 | 609 | 380 | 149 | 6410 |
| 2002-03 | 23 | 21 | 103 | 563 | 830 | 1158 | 1501 | 1246 | 1028 | 717 | 391 | 114 | 7695 |
| 2003-04 | 9 | 22 | 110 | 521 | 719 | 1088 | 1541 | 1128 | 930 | 609 | 329 | 159 | 7165 |
| 2004- | 15 | 20 | 131 | 470 | 776 | 1140 | | | | | | | |

WBAN : 14764

COOLING DEGREE DAYS (base 65°F) 2004 PORTLAND, ME (PMM)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1975 | 0 | 0 | 0 | 0 | 1 | 49 | 179 | 120 | 2 | 0 | 0 | 0 | 351 |
| 1976 | 0 | 0 | 0 | 0 | 2 | 128 | 80 | 93 | 5 | 0 | 0 | 0 | 308 |
| 1977 | 0 | 0 | 0 | 1 | 32 | 12 | 135 | 109 | 19 | 0 | 0 | 0 | 308 |
| 1978 | 0 | 0 | 0 | 0 | 6 | 22 | 138 | 150 | 20 | 0 | 0 | 0 | 336 |
| 1979 | 0 | 0 | 0 | 0 | 15 | 34 | 162 | 83 | 19 | 3 | 0 | 0 | 316 |
| 1980 | 0 | 0 | 0 | 0 | 1 | 50 | 163 | 205 | 67 | 0 | 0 | 0 | 486 |
| 1981 | 0 | 0 | 0 | 0 | 20 | 30 | 138 | 84 | 5 | 0 | 0 | 0 | 277 |
| 1982 | 0 | 0 | 0 | 0 | 6 | 4 | 158 | 66 | 17 | 0 | 0 | 0 | 251 |
| 1983 | 0 | 0 | 0 | 0 | 0 | 73 | 161 | 125 | 84 | 3 | 0 | 0 | 446 |
| 1984 | 0 | 0 | 0 | 0 | 0 | 84 | 162 | 147 | 12 | 0 | 0 | 0 | 405 |
| 1985 | 0 | 0 | 0 | 0 | 5 | 25 | 161 | 92 | 35 | 1 | 0 | 0 | 319 |
| 1986 | 0 | 0 | 0 | 0 | 8 | 23 | 93 | 96 | 19 | 0 | 0 | 0 | 239 |
| 1987 | 0 | 0 | 0 | 0 | 28 | 47 | 121 | 103 | 17 | 0 | 0 | 0 | 316 |
| 1988 | 0 | 0 | 0 | 0 | 11 | 85 | 209 | 227 | 17 | 2 | 0 | 0 | 551 |
| 1989 | 0 | 0 | 0 | 0 | 2 | 67 | 151 | 126 | 38 | 0 | 0 | 0 | 384 |
| 1990 | 0 | 0 | 0 | 0 | 0 | 34 | 181 | 179 | 19 | 7 | 0 | 0 | 420 |
| 1991 | 0 | 0 | 0 | 0 | 29 | 96 | 178 | 176 | 31 | 0 | 0 | 0 | 510 |
| 1992 | 0 | 0 | 0 | 0 | 13 | 43 | 76 | 93 | 30 | 0 | 0 | 0 | 255 |
| 1993 | 0 | 0 | 0 | 0 | 1 | 72 | 170 | 150 | 37 | 0 | 0 | 0 | 430 |
| 1994 | 0 | 0 | 0 | 0 | 1 | 101 | 237 | 89 | 10 | 0 | 0 | 0 | 438 |
| 1995 | 0 | 0 | 0 | 0 | 3 | 67 | 174 | 118 | 14 | 0 | 0 | 0 | 376 |
| 1996 | 0 | 0 | 0 | 0 | 5 | 38 | 75 | 99 | 29 | 0 | 0 | 0 | 246 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 90 | 145 | 100 | 8 | 2 | 0 | 0 | 345 |
| 1998 | 0 | 0 | 2 | 0 | 15 | 21 | 152 | 154 | 17 | 0 | 0 | 0 | 361 |
| 1999 | 0 | 0 | 0 | 0 | 4 | 109 | 208 | 116 | 59 | 0 | 0 | 0 | 496 |
| 2000 | 0 | 0 | 0 | 0 | 1 | 76 | 81 | 97 | 37 | 1 | 0 | 0 | 293 |
| 2001 | 0 | 0 | 0 | 0 | 23 | 127 | 85 | 161 | 25 | 3 | 0 | 0 | 424 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 49 | 169 | 183 | 55 | 14 | 0 | 0 | 470 |
| 2003 | 0 | 0 | 0 | 0 | 0 | 56 | 149 | 148 | 9 | 0 | 0 | 0 | 362 |
| 2004 | 0 | 0 | 0 | 0 | 1 | 31 | 80 | 114 | 16 | 0 | 0 | 0 | 242 |

SNOWFALL (inches) 2004 PORTLAND, ME (PWM)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-------|
| 1975-76 | 0.0 | 0.0 | 0.0 | T | 3.6 | 25.3 | 18.1 | 4.9 | 22.2 | T | 0.0 | 0.0 | 74.1 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 23.3 | 35.2 | 7.9 | 19.3 | 1.4 | T | 0.0 | 88.6 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 23.1 | 30.7 | 8.2 | 12.5 | 0.8 | 0.0 | 0.0 | 77.2 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 18.9 | 62.4 | 4.5 | T | 2.9 | 0.0 | 0.0 | 92.3 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 1.7 | T | 1.8 | 6.0 | 11.2 | 6.8 | 0.0 | 0.0 | 0.0 | 27.5 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 | 13.0 | 9.2 | 4.6 | 3.1 | T | 0.0 | 0.0 | 38.8 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | T | 24.0 | 25.9 | 11.0 | 8.5 | 15.9 | 0.0 | 0.0 | 85.3 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 5.7 | 12.4 | 24.5 | 2.1 | T | 0.0 | 0.0 | 45.3 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | T | 12.6 | 28.3 | 3.3 | 26.4 | T | 0.0 | 0.0 | 70.6 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | T | 17.0 | 12.1 | 7.2 | 13.1 | 2.4 | 0.0 | 0.0 | 51.8 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 11.2 | 18.6 | 12.0 | 6.4 | T | 0.0 | 0.0 | 51.3 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 4.0 | 50.7 | 0.8 | 14.3 | 3.4 | 0.0 | 0.0 | 78.4 |
| 1987-88 | 0.0 | 0.0 | T | 0.0 | 5.4 | 9.1 | 19.8 | 20.8 | 3.0 | 4.2 | 0.0 | 0.0 | 62.3 |
| 1988-89 | 0.0 | 0.0 | 0.0 | T | T | 3.5 | 4.0 | 13.8 | 8.9 | 0.7 | 0.0 | 0.0 | 30.9 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 15.6 | 20.4 | 25.6 | 3.2 | T | 0.0 | 0.0 | 69.8 |
| 1990-91 | 0.0 | 0.0 | T | 0.0 | 0.2 | 6.8 | 13.4 | 6.3 | 5.7 | T | 0.0 | 0.0 | 32.4 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | T | 22.5 | 2.4 | 10.3 | 13.4 | 10.0 | 0.0 | 0.0 | 58.6 |
| 1992-93 | 0.0 | 0.0 | T | T | 2.8 | 2.1 | 17.1 | 33.5 | 49.0 | 11.1 | 0.0 | 0.0 | 115.6 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.2 | T | 12.3 | 39.3 | 12.2 | 12.2 | T | 0.0 | 0.0 | 76.2 |
| 1994-95 | 0.0 | 0.0 | | | | | 15.5 | 17.3 | 1.4 | 0.0 | 0.0 | 0.0 | |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 37.3 | 37.1 | 13.1 | 25.0 | 8.5 | | | |
| 1996-97 | | | | | | 1.4 | | | | | | | |
| 1997-98 | | | | | 20.5 | 6.3 | 17.1 | 0.9 | 9.7 | 0.0 | 0.0 | 0.0 | |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | T | 11.7 | 19.2 | 5.1 | 17.5 | 0.0 | 0.0 | 0.0 | 53.5 |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 14.9 | 14.6 | 11.6 | T | 0.0 | 0.0 | 41.1 |
| 2000-01 | 0.0 | 0.0 | 0.0 | T | T | 18.8 | 15.5 | 24.2 | 40.5 | 0.3 | 0.0 | 0.0 | 99.3 |
| 2001-02 | 0.0 | 0.0 | 0.0 | T | T | 5.0 | 15.8 | 1.1 | 10.4 | 0.3 | 0.0 | 0.0 | 32.6 |
| 2002-03 | T | 0.0 | 0.0 | 0.0 | 4.1 | 17.4 | 18.7 | 16.8 | 2.4 | 4.5 | 0.0 | 0.0 | 63.9 |
| 2003-04 | 0.0 | 0.0 | 0.0 | T | T | 24.0 | 2.8 | 12.3 | 6.1 | 1.5 | 0.0 | 0.0 | 46.7 |
| 2004- | 0.0 | 0.0 | 0.0 | 0.0 | T | 8.8 | | | | | | | |
| POR= 63 YRS | 0.0 | 0.0 | T | 0.2 | 3.0 | 14.5 | 19.0 | 16.4 | 13.1 | 2.9 | 0.2 | 0.0 | 69.3 |

WBAN : 14764

REFERENCE NOTES :

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| <p>PAGE 1: 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: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. 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. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. 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. 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: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. 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> |
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2004 PORTLAND, MAINE (PWM)

The Portland City Airport is located 2 3/4 miles west of the site of the former city office. The surrounding country is mostly open, rolling and sloping generally toward the Fore River, a body of brackish water about 1,000 feet wide at a distance of about 1/2 mile from the station and forming one boundary (north through east) of the field. The airport is about 5 1/2 miles west-northwest of the open ocean. A slight rise reaching an elevation of 100 feet, lying northwest of the field, cuts down the wind slightly from that direction. The older portion of the city is situated on a hill rising abruptly from sea level to 170 feet, 1 1/2 miles east of the airport and on the opposite side of the Fore River. A line of low hills southeast of the airport, near the ocean, which reach a maximum height of 160 feet, shuts off sight of the ocean from the airport. Sebago Lake with an area of 44 square miles is situated about 15 miles to the northwest and 45 miles farther are the White Mountains, averaging 3,000 to 5,000 feet in height.

As a rule, Portland has very pleasant summers and falls, cold winters with frequent thaws, and disagreeable springs. Very few summer nights are too warm and humid for comfortable sleeping. Autumn has the greatest number of sunny days and the least cloudiness. Winters are quite severe, but begin late and then extend deeply into the normal springtime.

Heavy seasonal snowfalls, over 100 inches, normally occur about each 10 years. True blizzards are very rare. The White Mountains, to the northwest, keep considerable snow from reaching the Portland area and also moderate the temperature. Normal monthly precipitation is remarkably uniform throughout the year.

Winds are generally quite light with the highest velocities being confined mostly to March and November. Even in these months the occasional northeasterly gales have usually lost much of their severity before reaching the coast of Maine.

Temperatures well below zero are recorded frequently each winter. Cold waves sometimes come in on strong winds, but extremely low temperatures are generally accompanied by light winds.

The average freeze-free season at the airport station is 139 days. Mid-May is the average occurrence of the last freeze in spring, and the average occurrence of the first freeze in fall is late September. The freeze-free period is longer in the city proper, but may be even shorter at susceptible places further inland.

Daily maximum temperatures at the present airport site agree closely with those near the former intown office, but minimum temperatures on clear, quiet mornings range as much as 15 degrees lower at the airport.

STATION LOCATION

PORTLAND, MAINE

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | * TYPE M = AMOS T = AUTOB S = ASOS W = AWOS | REMARKS | |
|---|---------------|-------------|---|----------------|----------------|-----------------|-------------|-----------------|---------------------|--------------|-----------------|----------------|----------|----------------|------------------|--|---|---------|------------|
| | | | | | | SEA LEVEL | | GROUND | | | | | | | | | | | HYGROMETER |
| | | | | | | GROUND | TEMPERATURE | WIND INSTRUMENT | EXTREME THERMOMETER | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET | WINDHANG | RAIN GAGE | 8 INCH RAIN GAGE | | | | |
| *NOTE: <u>AIRPORT</u> Administration Bldg. + Portland City Airport++ + General Aviation Terminal, effective Oct. 1968 1001 Westbrook St. ++ Portland Int'l Jetport, Sept. 1969. 4 Al McKay Avenue Portland International Jetport Portland Int'l Jetport | 12/03/39 | 10/13/88 | 2.75 mi. W of City Office | 43°39' | 70°19' | d43 | a20 f20 | e6 g | e6 g | %33 | b3 h13 | 6 h13 | 3 h13 | c4 f5 i5 | NA | a. 36 feet to 6/41'; 61 feet to 5/43; 43 feet to 8/48; and 55 feet to 10/6/64. b. 24 feet to 6/48. c. Commissioned 1200 feet ESE of thermometer site 2/2/65. d. 61 feet to 2/2/65 and 47 feet to 12/10/69. e. Standby status after 2/2/65. f. Moved 850 feet SE 12/10/69. g. Removed 7/17/78. h. Effective 12/26/78. % - Commissioned 6/30/53. i. Type change 12/10/85. WSFO moved to airport 7/31/88. | | | |
| | 10/13/88 | 08/01/94 | Unknown | 43°39' | 70°18' | j38 | k20 | 5 | 5 | 5 | 3 | 3 | 3 | k5 | NA | j. Effective 7/30/88. k. Not moved 10/13/88. | | | |
| | 08/01/94 | Present | NA | 43°39' | 70°18' | 169 | | | | | | | | | S | ASOS Commissioned 08/01/94. l. ground elevation. | | | |

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* NOTES: For earlier station history see previous edition.