

1999

LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



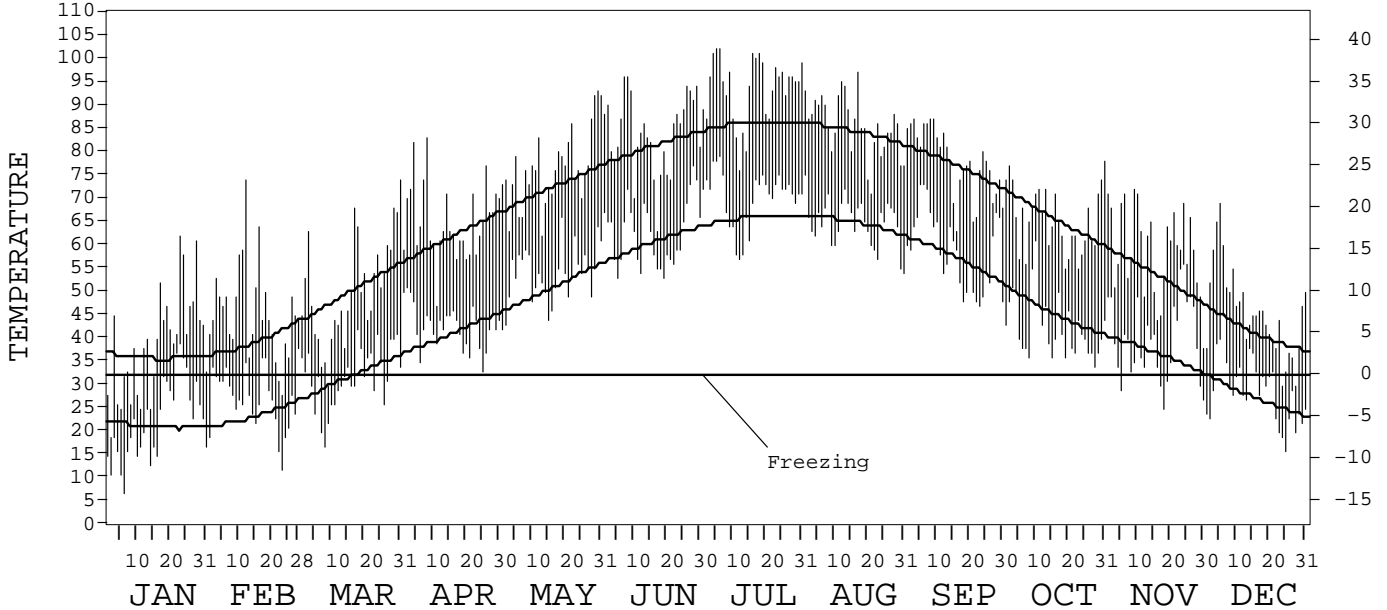
MIDDLETOWN/HARRISBURG INTL APT
PENNSYLVANIA (MDT)

ISSN 0198-4519

Daily Data

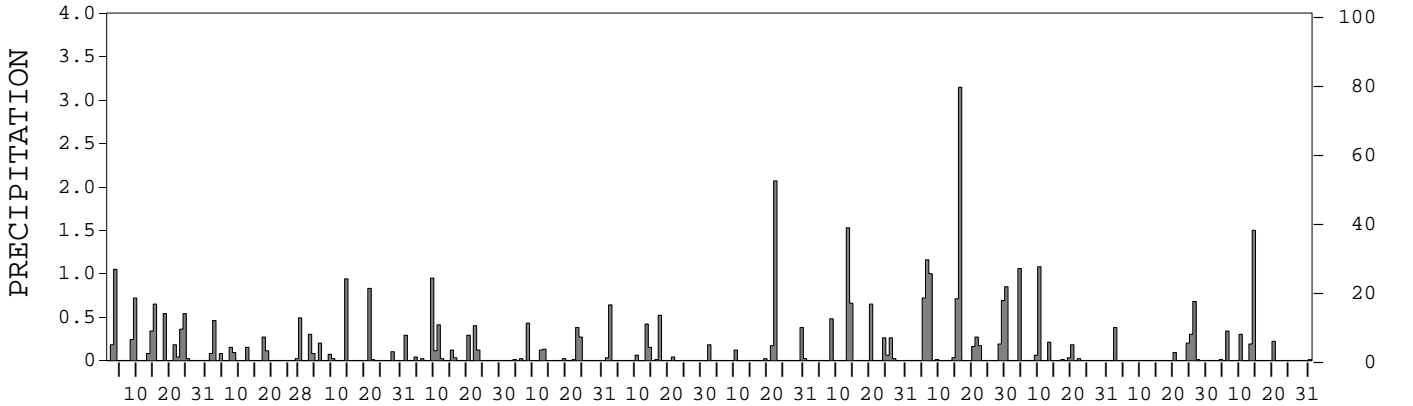
Fahrenheit

Celsius



Inches

Millimeters



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Thomas R. Karl

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

METEOROLOGICAL DATA FOR 1999

MIDDLETOWN/HARRISBURG, PA (MDT)

LATITUDE: 40° 12' 0" N LONGITUDE: 76° 46' 0" W ELEVATION (FT): GRND: 303 BARO: 324 TIME ZONE: EASTERN (UTC + 5) WBAN: 14711

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 38.8 | 45.8 | 50.5 | 65.1 | 76.4 | 83.9 | 93.5 | 85.6 | 77.8 | 65.5 | 59.0 | 45.7 | 65.6 | |
| | HIGHEST DAILY MAXIMUM | 62 | 74 | 74 | 83 | 93 | 96 | 102 | 97 | 87 | 78 | 72 | 69 | 102 | |
| | DATE OF OCCURRENCE | 23 | 12 | 31 | 08 | 30 | 08+ | 06+ | 17 | 09+ | 31 | 09 | 05 | JUL 06+ | |
| | MEAN DAILY MINIMUM | 22.5 | 27.2 | 31.9 | 42.6 | 53.6 | 62.5 | 70.2 | 64.8 | 58.8 | 42.4 | 39.6 | 29.0 | 45.4 | |
| | LOWEST DAILY MINIMUM | 7 | 12 | 17 | 33 | 42 | 53 | 57 | 54 | 47 | 34 | 25 | 16 | 7 | |
| | DATE OF OCCURRENCE | 06 | 23 | 08 | 25 | 01 | 19+ | 12 | 31 | 23 | 28 | 18 | 25 | JAN 06 | |
| | AVERAGE DRY BULB | 30.7 | 36.5 | 41.2 | 53.9 | 65.0 | 73.2 | 81.9 | 75.2 | 68.3 | 54.0 | 49.3 | 37.4 | 55.6 | |
| | MEAN WET BULB | | | | | | | | | | | | | | |
| | MEAN DEW POINT | | | | | | | | | | | | | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 3 | 8 | 22 | 9 | 0 | 0 | 0 | 0 | 0 | 42 | |
| MAXIMUM ≤ 32° | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15 | | |
| MINIMUM ≤ 32° | 27 | 22 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 22 | 94 | | |
| MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| H/C | HEATING DEGREE DAYS | 1059 | 792 | 733 | 329 | 61 | 6 | 0 | 0 | 36 | 334 | 464 | 850 | 4664 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 72 | 260 | 530 | 323 | 142 | 1 | 0 | 0 | 1328 | |
| RH | MEAN (PERCENT) | | | | | | | | | | | | | | |
| | HOUR 01 LST | | | | | | | | | | | | | | |
| | HOUR 07 LST | | | | | | | | | | | | | | |
| | HOUR 13 LST | | | | | | | | | | | | | | |
| | HOUR 19 LST | | | | | | | | | | | | | | |
| S | PERCENT POSSIBLE SUNSHINE | 32 | 43 | 48 | 52 | 62 | 57 | 65 | 62 | 52 | 80 | 51 | 49 | 54 | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 12 | |
| | THUNDERSTORMS | 1 | 0 | 1 | 4 | 2 | 1 | 2 | 4 | 1 | 2 | 0 | 0 | 18 | |
| CLOUDINESS | AVG. SKY COVER (OKTAS) | | | | | | | | | | | | | | |
| | SUNRISE - SUNSET | 6 | 5 | 5 | | 5 | 5 | 4 | | 5 | 5 | 4 | 5 | | |
| | MIDNIGHT - MIDNIGHT | 5 | 5 | | | 4 | | | 5 | 5 | | 4 | 5 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 7 | 6 | 10 | 11 | 6 | 4 | 10 | 5 | 9 | 9 | 10 | 6 | 93 | |
| PARTLY CLOUDY | 8 | 11 | 10 | 5 | 15 | 16 | 14 | 15 | 9 | 13 | 11 | 16 | 143 | | |
| | CLOUDY | 16 | 11 | 11 | 13 | 10 | 10 | 7 | 10 | 12 | 9 | 9 | 9 | 127 | |
| PR | MEAN STATION PRESS. (IN.) | | | | | | | | | | | | | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.19 | 30.10 | 30.03 | 29.99 | 30.04 | 30.09 | 30.00 | 29.98 | 30.02 | 30.15 | 30.14 | 30.13 | 30.07 | |
| WINDS | RESULTANT SPEED (MPH) | 3.8 | 4.7 | 8.3 | 3.3 | 1.4 | 1.8 | 1.3 | 1.4 | 0.3 | 2.2 | 4.6 | 5.5 | 2.8 | |
| | RES. DIR. (TENS OF DEGS.) | 30 | 32 | 31 | 31 | 24 | 14 | 33 | 31 | 29 | 29 | 29 | 30 | 30 | |
| | MEAN SPEED (MPH) | 8.6 | 8.7 | 13.0 | 9.6 | 9.4 | 8.5 | 8.4 | 7.1 | 8.2 | 7.2 | 9.6 | 8.8 | 8.9 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 30 | 30 | 31 | 31 | 12 | 14 | 30 | 31 | 12 | 30 | 31 | 30 | 31 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 29 | 35 | 44 | 35 | 29 | 46 | 29 | 40 | 37 | 32 | 38 | 30 | 46 | |
| | DIR. (TENS OF DEGS.) | 25 | 31 | 28 | 28 | 27 | 29 | 29 | 30 | 33 | 29 | 26 | 31 | 29 | |
| | DATE OF OCCURRENCE | 18+ | 12+ | 04 | 16 | 24 | 02 | 08 | 13 | 16 | 14 | 02 | 26 | JUN 02 | |
| | PEAK GUST : | | | | | | | | | | | | | | |
| | SPEED (MPH) | | | | | | | | | | | | | | |
| DIR. (TENS OF DEGS.) | | | | | | | | | | | | | | | |
| DATE OF OCCURRENCE | | | | | | | | | | | | | | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 4.94 | 1.90 | 2.55 | 2.80 | 1.39 | 1.87 | 2.96 | 3.92 | 9.11 | 2.65 | 1.66 | 2.57 | 38.32 | |
| | GREATEST 24-HOUR (IN.) | 1.23 | 0.54 | 0.94 | 1.06 | 0.43 | 0.64 | 2.24 | 1.93 | 3.46 | 1.08 | 0.68 | 1.58 | 3.46 | |
| | DATE OF OCCURRENCE | 02-03 | 01-02 | 14 | 09-10 | 08 | 02 | 21-22 | 13-14 | 15-16 | 10 | 26 | 13-14 | SEP 15-16 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 13 | 10 | 9 | 12 | 9 | 8 | 7 | 8 | 13 | 8 | 6 | 7 | 110 | |
| PRECIPITATION ≥ 0.10 | 10 | 6 | 5 | 8 | 5 | 4 | 5 | 6 | 11 | 4 | 4 | 5 | 73 | | |
| PRECIPITATION ≥ 1.00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 0 | 1 | 9 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 7.4 | 1.3 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.1 | 19.4 | |
| | GREATEST 24-HOUR (IN.) | 3.5 | 1.3 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.1 | 8.3 | |
| | DATE OF OCCURRENCE | 08 | 07-08 | 14 | | | | | | | | 30 | 28 | MAR 14 | |
| | MAXIMUM SNOW DEPTH (IN.) | 2 | T | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | T | 6 | |
| | DATE OF OCCURRENCE | 17+ | 08 | 14 | | | | | | | | | 28 | MAR 14 | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | | |

NORMALS, MEANS, AND EXTREMES

MIDDLETOWN/HARRISBURG, PA (MDT)

LATITUDE: 40° 12' 0" N LONGITUDE: 76° 46' 0" W ELEVATION (FT): GRND: 303 BARO: 324 TIME ZONE: EASTERN (UTC + 5) WBAN: 14711

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 35.9 | 39.2 | 50.3 | 62.0 | 72.5 | 81.2 | 85.8 | 83.8 | 76.3 | 64.7 | 52.6 | 40.6 | 62.1 |
| | MEAN DAILY MAXIMUM | 26 | 38.1 | 41.0 | 48.7 | 62.5 | 72.8 | 81.9 | 86.3 | 83.7 | 76.1 | 65.8 | 52.1 | 41.2 | 62.5 |
| | HIGHEST DAILY MAXIMUM | 61 | 73 | 78 | 87 | 93 | 97 | 100 | 107 | 101 | 102 | 97 | 84 | 75 | 107 |
| | YEAR OF OCCURRENCE | | 1950 | 1997 | 1998 | 1985 | 1942 | 1966 | 1966 | 1944 | 1953 | 1941 | 1950 | 1998 | JUL 1966 |
| | MEAN OF EXTREME MAXS. | 26 | 57.6 | 60.4 | 71.2 | 83.2 | 89.2 | 94.2 | 96.2 | 93.9 | 90.2 | 81.5 | 70.2 | 60.4 | 79.0 |
| | NORMAL DAILY MINIMUM | 30 | 21.2 | 23.3 | 32.0 | 41.2 | 51.1 | 60.6 | 65.6 | 64.3 | 56.5 | 44.6 | 36.1 | 26.6 | 43.6 |
| | MEAN DAILY MINIMUM | 26 | 23.9 | 25.4 | 31.7 | 42.3 | 52.0 | 61.6 | 66.6 | 64.0 | 56.8 | 45.1 | 35.3 | 26.9 | 44.3 |
| | LOWEST DAILY MINIMUM | 61 | -22 | -5 | 5 | 19 | 31 | 40 | 49 | 45 | 30 | 23 | 13 | -8 | -22 |
| | YEAR OF OCCURRENCE | | 1994 | 1979 | 1984 | 1982 | 1966 | 1980 | 1945 | 1976 | 1963 | 1969 | 1955 | 1960 | JAN 1994 |
| | MEAN OF EXTREME MINS. | 26 | 7.2 | 8.9 | 18.1 | 29.1 | 38.8 | 49.4 | 56.5 | 52.8 | 41.0 | 31.4 | 21.6 | 10.3 | 30.4 |
| | NORMAL DRY BULB | 30 | 28.6 | 31.3 | 41.2 | 51.6 | 61.8 | 70.9 | 75.7 | 74.1 | 66.4 | 54.7 | 44.4 | 33.6 | 52.9 |
| | MEAN DRY BULB | 26 | 31.1 | 33.1 | 40.2 | 52.4 | 62.4 | 71.8 | 76.4 | 73.9 | 66.4 | 55.4 | 43.6 | 34.0 | 53.4 |
| | MEAN WET BULB | 5 | 27.2 | 26.8 | 35.0 | 46.1 | 54.7 | 65.3 | 56.4 | 54.2 | 48.3 | 41.4 | 33.2 | 26.2 | 42.9 |
| | MEAN DEW POINT | 5 | 21.4 | 19.4 | 27.9 | 38.4 | 48.6 | 60.8 | 53.8 | 51.4 | 45.3 | 37.5 | 28.2 | 21.1 | 37.8 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 3.2 | 5.6 | 2.6 | 3.4 | 0.0 | 0.0 | 0.0 | 15.6 | |
| MAXIMUM ≤ 32° | 30 | 10.8 | 7.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 | 26.8 | |
| MINIMUM ≤ 32° | 30 | 27.7 | 23.8 | 14.0 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 8.8 | 24.2 | 103.7 | |
| MINIMUM ≤ 0° | 30 | 1.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1128 | 944 | 738 | 402 | 147 | 9 | 0 | 0 | 59 | 329 | 618 | 973 | 5347 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 48 | 186 | 332 | 285 | 101 | 10 | 0 | 0 | 962 |
| RH | NORMAL (PERCENT) | | | | | | | | | | | | | | |
| | HOUR 01 LST | | | | | | | | | | | | | | |
| | HOUR 07 LST | | | | | | | | | | | | | | |
| | HOUR 13 LST | | | | | | | | | | | | | | |
| | HOUR 19 LST | | | | | | | | | | | | | | |
| S | PERCENT POSSIBLE SUNSHINE | 61 | 48 | 54 | 57 | 58 | 59 | 64 | 67 | 66 | 61 | 58 | 47 | 44 | 57 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 56 | 2.2 | 2.3 | 1.8 | 1.0 | 0.9 | 0.6 | 0.6 | 0.8 | 1.5 | 2.7 | 1.7 | 2.5 | 18.6 |
| | THUNDERSTORMS | 56 | 0.2 | 0.2 | 1.0 | 2.4 | 4.9 | 6.0 | 6.7 | 4.9 | 2.9 | 0.8 | 0.5 | 0.2 | 30.7 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 49 | 5.4 | 5.3 | 5.3 | 5.2 | 5.2 | 4.9 | 4.9 | 4.7 | 4.7 | 4.6 | 5.2 | 5.6 | 5.1 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 8 | 5.5 | 5.1 | 5.2 | 4.9 | 4.8 | 5.2 | 4.9 | 4.6 | 4.7 | 3.5 | 4.6 | 5.3 | 4.9 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 61 | 6.5 | 6.6 | 7.1 | 6.6 | 5.9 | 6.5 | 7.0 | 7.8 | 8.5 | 9.8 | 6.3 | 6.1 | 84.7 |
| PARTLY CLOUDY | 61 | 7.7 | 7.3 | 8.3 | 8.7 | 10.8 | 11.7 | 11.6 | 11.3 | 9.5 | 8.4 | 8.2 | 7.5 | 111.0 | |
| CLOUDY | 61 | 16.8 | 14.4 | 15.5 | 14.9 | 14.3 | 11.9 | 11.9 | 11.6 | 11.6 | 12.4 | 15.2 | 16.8 | 167.3 | |
| PR | MEAN STATION PRESSURE (IN) | 24 | 29.72 | 29.72 | 29.67 | 29.62 | 29.63 | 29.63 | 29.65 | 29.69 | 29.73 | 29.75 | 29.73 | 29.74 | 29.69 |
| | MEAN SEA-LEVEL PRES. (IN) | 8 | 30.10 | 30.07 | 30.03 | 29.97 | 29.99 | 29.98 | 29.98 | 30.04 | 30.05 | 30.11 | 30.12 | 30.11 | 30.05 |
| WINDS | MEAN SPEED (MPH) | 26 | 7.7 | 8.2 | 9.2 | 8.4 | 7.0 | 6.2 | 5.5 | 4.9 | 5.1 | 5.5 | 7.0 | 7.2 | 6.8 |
| | PREVAIL. DIR (TENS OF DEGS) | 12 | 30 | 31 | 31 | 31 | 30 | 30 | 31 | 30 | 31 | 31 | 31 | 30 | 31 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 17 | 46 | 44 | 46 | 46 | 47 | 58 | 52 | 49 | 40 | 37 | 40 | 46 | 58 |
| | DIR. (TENS OF DEGS) | | 03 | 03 | 29 | 03 | 02 | 03 | 01 | 02 | 28 | 03 | 03 | 03 | 03 |
| | YEAR OF OCCURRENCE | | 1996 | 1995 | 1997 | 1995 | 1980 | 1980 | 1994 | 1994 | 1998 | 1992 | 1995 | 1978 | JUN 1980 |
| | PEAK GUST: | | | | | | | | | | | | | | |
| SPEED (MPH) | | | | | | | | | | | | | | | |
| DIR. (TENS OF DEGS) | | | | | | | | | | | | | | | |
| YEAR OF OCCURRENCE | | | | | | | | | | | | | | | |
| PRECIPITATION | NORMAL (IN) | 30 | 2.84 | 2.93 | 3.28 | 3.24 | 4.26 | 3.85 | 3.59 | 3.31 | 3.51 | 2.93 | 3.52 | 3.24 | 40.50 |
| | MAXIMUM MONTHLY (IN) | 21 | 8.01 | 5.93 | 6.32 | 7.96 | 9.71 | 8.12 | 8.09 | 6.26 | 9.11 | 5.59 | 6.23 | 7.57 | 9.71 |
| | YEAR OF OCCURRENCE | | 1979 | 1981 | 1993 | 1983 | 1989 | 1982 | 1994 | 1986 | 1999 | 1989 | 1985 | 1983 | MAY 1989 |
| | MINIMUM MONTHLY (IN) | 21 | 0.43 | 0.82 | 0.95 | 0.45 | 1.39 | 1.00 | 0.97 | 0.53 | 0.65 | 0.74 | 0.92 | 0.31 | 0.31 |
| | YEAR OF OCCURRENCE | | 1981 | 1980 | 1995 | 1985 | 1999 | 1988 | 1983 | 1995 | 1986 | 1994 | 1998 | 1998 | DEC 1998 |
| | MAXIMUM IN 24 HOURS (IN) | 19 | 2.09 | 1.84 | 1.94 | 2.06 | 2.91 | 2.32 | 3.84 | 2.78 | 3.46 | 2.78 | 3.27 | 2.58 | 3.84 |
| | YEAR OF OCCURRENCE | | 1979 | 1985 | 1992 | 1992 | 1984 | 1987 | 1994 | 1991 | 1999 | 1995 | 1993 | 1993 | JUL 1994 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 9.6 | 11.0 | 12.5 | 13.0 | 9.7 | 10.8 | 9.2 | 10.2 | 6.4 | 5.6 | 9.6 | 9.0 | 116.6 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.6 | 0.6 | 0.7 | 0.5 | 0.2 | 0.5 | 0.6 | 0.6 | 0.8 | 1.0 | 0.7 | 0.5 | 7.3 | |
| SNOWFALL | NORMAL (IN) | 30 | 15.7 | 15.2 | 9.6 | 0.3 | T | 0.0 | 0.0 | 0.0 | T | 2.0 | 11.0 | 53.8 | |
| | MAXIMUM MONTHLY (IN) | 21 | 38.9 | 28.8 | 22.8 | 10.2 | 0.0 | T | 0.0 | T | 0.0 | T | 9.7 | 17.4 | 38.9 |
| | YEAR OF OCCURRENCE | | 1996 | 1983 | 1993 | 1982 | | 1993 | | 1993 | | 1982 | 1987 | 1995 | JAN 1996 |
| | MAXIMUM IN 24 HOURS (IN) | 19 | 21.7 | 14.2 | 20.4 | 4.0 | 0.0 | T | 0.0 | T | 0.0 | T | 7.9 | 9.1 | 21.7 |
| | YEAR OF OCCURRENCE | | 1996 | 1979 | 1993 | 1996 | | 1993 | | 1993 | | 1979 | 1987 | 1990 | JAN 1996 |
| | MAXIMUM SNOW DEPTH (IN) | 26 | 20 | 23 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 13 | 23 |
| | YEAR OF OCCURRENCE | | 1961 | 1961 | 1993 | 1959 | | | | | | | 1953 | 1951 | FEB 1961 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 3.0 | 4.2 | 2.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.7 | 12.8 | |

PRECIPITATION (inches) 1999 MIDDLETOWN/HARRISBURG INTL APT PA (MDT)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|-------|------|------|-------|------|------|------|--------|
| 1970 | 0.88 | 3.25 | 3.64 | 5.03 | 2.39 | 5.80 | 6.34 | 2.97 | 2.12 | 3.20 | 4.59 | 3.50 | 43.71 |
| 1971 | 2.70 | 5.62 | 2.67 | 1.04 | 5.30 | 1.80 | 2.84 | 7.77 | 1.94 | 2.85 | 4.96 | 1.93 | 41.42 |
| 1972 | 2.65 | 5.00 | 2.68 | 4.10 | 5.56 | 18.55 | 2.26 | 2.52 | 1.41 | 2.03 | 7.20 | 5.31 | 59.27 |
| 1973 | 3.24 | 2.50 | 2.00 | 6.23 | 6.37 | 3.34 | 2.18 | 2.19 | 5.73 | 2.47 | 1.04 | 6.52 | 43.81 |
| 1974 | 3.82 | 1.36 | 4.64 | 3.21 | 4.38 | 3.69 | 2.79 | 4.13 | 6.79 | 1.25 | 2.30 | 4.59 | 42.95 |
| 1975 | 4.12 | 3.10 | 3.78 | 2.80 | 5.25 | 6.51 | 3.13 | 1.83 | 14.97 | 2.62 | 2.92 | 3.19 | 54.22 |
| 1976 | 4.34 | 1.88 | 3.43 | 1.63 | 5.42 | 2.42 | 5.50 | 3.28 | 4.79 | 9.87 | 0.79 | 1.96 | 45.31 |
| 1977 | 1.44 | 1.75 | 6.10 | 4.48 | 1.00 | 3.17 | 3.01 | 0.93 | 3.73 | 3.66 | 5.61 | 4.82 | 39.70 |
| 1978 | 7.44 | 1.35 | 3.94 | 1.97 | 5.67 | 5.16 | 4.35 | 3.60 | 1.64 | 2.51 | 2.13 | 3.95 | 43.71 |
| 1979 | 8.01 | 4.74 | 1.93 | 3.60 | 4.66 | 2.62 | 3.14 | 3.24 | 6.62 | 3.91 | 2.67 | 1.46 | 46.60 |
| 1980 | 0.90 | 0.82 | 5.47 | 4.27 | 4.58 | 2.50 | 1.59 | 1.51 | 1.06 | 2.94 | 3.65 | 0.77 | 30.06 |
| 1981 | 0.43 | 5.93 | 1.02 | 2.77 | 1.86 | 4.66 | 4.67 | 4.11 | 2.20 | 3.76 | 0.96 | 2.41 | 34.78 |
| 1982 | 3.63 | 1.92 | 2.20 | 4.17 | 4.89 | 8.12 | 2.90 | 2.47 | 2.87 | 1.82 | 3.37 | 1.56 | 39.92 |
| 1983 | 2.26 | 3.38 | 4.86 | 7.96 | 5.36 | 2.81 | 0.97 | 2.50 | 1.40 | 4.21 | 5.29 | 7.57 | 48.57 |
| 1984 | 1.12 | 4.51 | 5.36 | 4.46 | 6.20 | 6.36 | 3.76 | 2.75 | 1.49 | 1.98 | 3.78 | 2.28 | 44.05 |
| 1985 | 1.06 | 2.91 | 2.78 | 0.45 | 6.29 | 3.07 | 2.50 | 2.14 | 3.76 | 1.34 | 6.23 | 1.28 | 33.81 |
| 1986 | 2.24 | 4.50 | 3.16 | 4.10 | 2.29 | 1.48 | 5.17 | 6.26 | 0.65 | 2.59 | 4.58 | 4.90 | 41.92 |
| 1987 | 3.69 | 1.59 | 1.43 | 2.93 | 3.73 | 3.46 | 1.96 | 2.89 | 8.41 | 2.63 | 4.96 | 1.84 | 39.52 |
| 1988 | 2.18 | 3.28 | 1.98 | 2.65 | 5.79 | 1.00 | 4.40 | 2.67 | 2.42 | 1.81 | 3.67 | 0.90 | 32.75 |
| 1989 | 2.29 | 1.90 | 3.60 | 1.10 | 9.71 | 6.02 | 7.20 | 3.03 | 2.63 | 5.59 | 2.17 | 1.27 | 46.51 |
| 1990 | 3.77 | 2.73 | 1.76 | 2.60 | 7.20 | 1.10 | 3.62 | 6.14 | 1.65 | 4.92 | 2.58 | 6.05 | 44.12 |
| 1991 | 2.61 | 1.39 | 3.54 | 2.00 | 3.15 | 1.08 | 1.99 | 5.29 | 1.35 | 3.15 | 2.08 | 3.49 | 31.12 |
| 1992 | 1.62 | 1.56 | 5.13 | 2.62 | 3.17 | 1.90 | 3.54 | 1.45 | 5.65 | 1.64 | 4.82 | 2.42 | 35.52 |
| 1993 | 2.39 | 2.32 | 6.32 | 6.49 | 1.96 | 3.20 | 3.65 | 3.45 | 7.84 | 2.66 | 4.17 | 3.95 | 48.40 |
| 1994 | 5.00 | 3.24 | 6.22 | 2.96 | 2.73 | 1.81 | 8.09 | 4.94 | 2.33 | 0.74 | 5.18 | 2.92 | 46.16 |
| 1995 | 3.52 | 1.52 | 0.95 | 2.22 | 3.52 | 4.16 | 5.81 | 0.53 | 1.95 | 5.43 | 3.67 | 2.53 | 35.81 |
| 1996 | 5.87 | 1.60 | 3.26 | 4.69 | 3.93 | 6.33 | 7.06 | 2.22 | 3.35 | 4.26 | 3.88 | 5.98 | 52.43 |
| 1997 | 2.00 | 1.47 | 3.44 | 0.92 | 3.66 | 2.41 | 4.82 | 3.60 | 2.52 | 1.50 | 3.97 | 2.01 | 32.32 |
| 1998 | 4.49 | 5.05 | 4.36 | 5.17 | 6.37 | 5.82 | 4.86 | 3.88 | 1.81 | 2.92 | 0.92 | 0.31 | 45.96 |
| 1999 | 4.94 | 1.90 | 2.55 | 2.80 | 1.39 | 1.87 | 2.96 | 3.92 | 9.11 | 2.65 | 1.66 | 2.57 | 38.32 |
| POR= 110 YRS | 2.87 | 2.66 | 3.27 | 3.08 | 3.76 | 3.58 | 3.64 | 3.59 | 3.13 | 2.90 | 2.79 | 2.90 | 38.17 |

WBAN : 14711

AVERAGE TEMPERATURE (°F) 1999 MIDDLETOWN/HARRISBURG INTL APT PA (MDT)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1970 | 22.9 | 30.4 | 36.7 | 51.4 | 65.1 | 70.7 | 76.2 | 75.6 | 71.6 | 58.7 | 46.0 | 34.8 | 53.3 |
| 1971 | 26.4 | 33.2 | 38.6 | 50.4 | 60.0 | 72.5 | 75.5 | 72.2 | 69.9 | 60.6 | 43.5 | 40.3 | 53.6 |
| 1972 | 34.5 | 30.2 | 40.0 | 49.6 | 62.3 | 67.7 | 76.2 | 74.0 | 68.4 | 52.1 | 41.8 | 36.8 | 52.8 |
| 1973 | 33.7 | 31.7 | 45.2 | 50.9 | 57.8 | 73.4 | 75.5 | 76.1 | 68.6 | 57.4 | 46.9 | 36.2 | 54.5 |
| 1974 | 34.8 | 32.3 | 42.8 | 56.2 | 63.0 | 70.5 | 77.6 | 77.1 | 64.5 | 51.6 | 44.9 | 35.4 | 54.2 |
| 1975 | 33.3 | 32.4 | 38.3 | 47.4 | 64.8 | 70.7 | 75.3 | 76.2 | 63.3 | 57.7 | 50.0 | 34.2 | 53.6 |
| 1976 | 27.6 | 39.6 | 44.2 | 54.5 | 59.4 | 73.4 | 72.3 | 72.4 | 64.8 | 51.5 | 39.6 | 30.0 | 52.4 |
| 1977 | 20.1 | 30.4 | 46.0 | 54.1 | 64.5 | 68.6 | 75.9 | 74.3 | 68.3 | 52.7 | 46.1 | 31.6 | 52.7 |
| 1978 | 26.2 | 22.8 | 38.6 | 51.0 | 61.5 | 69.5 | 73.1 | 76.9 | 67.6 | 54.4 | 46.7 | 36.5 | 52.1 |
| 1979 | 29.2 | 22.6 | 45.1 | 50.4 | 62.2 | 68.5 | 73.4 | 72.9 | 65.5 | 52.3 | 46.8 | 37.6 | 52.2 |
| 1980 | 30.3 | 29.1 | 38.9 | 52.8 | 63.3 | 67.8 | 76.3 | 76.1 | 67.7 | 51.5 | 39.4 | 29.6 | 51.9 |
| 1981 | 23.7 | 34.6 | 38.7 | 53.7 | 61.9 | 71.7 | 75.7 | 72.2 | 63.9 | 50.7 | 44.7 | 31.9 | 52.0 |
| 1982 | 22.8 | 30.9 | 38.6 | 47.6 | 62.2 | 65.1 | 74.4 | 70.5 | 65.3 | 55.1 | 47.6 | 41.4 | 51.8 |
| 1983 | 33.0 | 33.4 | 42.7 | 49.3 | 58.4 | 69.1 | 75.9 | 74.9 | 66.2 | 53.6 | 43.9 | 28.7 | 52.4 |
| 1984 | 24.8 | 36.6 | 33.7 | 48.0 | 58.2 | 72.9 | 74.3 | 75.8 | 64.4 | 61.5 | 43.9 | 41.5 | 53.0 |
| 1985 | 27.9 | 34.4 | 44.5 | 56.9 | 65.2 | 69.4 | 75.9 | 74.1 | 69.2 | 57.2 | 47.9 | 31.0 | 54.5 |
| 1986 | 31.4 | 30.0 | 43.5 | 53.5 | 65.6 | 71.4 | 76.3 | 72.0 | 66.2 | 56.0 | 41.2 | 36.1 | 53.6 |
| 1987 | 30.0 | 32.3 | 44.1 | 52.3 | 63.2 | 72.6 | 78.2 | 73.1 | 65.7 | 49.4 | 43.9 | 36.6 | 53.5 |
| 1988 | 24.4 | 31.8 | 42.4 | 50.0 | 62.3 | 70.8 | 78.8 | 76.2 | 63.5 | 49.5 | 43.7 | 33.3 | 52.2 |
| 1989 | 34.8 | 32.4 | 40.4 | 50.4 | 60.0 | 70.6 | 73.7 | 72.6 | 66.0 | 55.6 | 42.7 | 22.6 | 51.8 |
| 1990 | 38.2 | 38.2 | 44.9 | 53.1 | 59.4 | 71.2 | 75.2 | 72.7 | 65.0 | 58.2 | 46.9 | 38.4 | 55.1 |
| 1991 | 31.7 | 37.4 | 43.7 | 53.7 | 69.1 | 74.2 | 78.7 | 76.2 | 65.4 | 56.9 | 43.7 | 36.5 | 55.6 |
| 1992 | 33.0 | 35.7 | 40.3 | 51.8 | 60.2 | 69.3 | 75.0 | 71.6 | 65.5 | 51.3 | 44.3 | 35.3 | 52.8 |
| 1993 | 34.8 | 28.8 | 36.6 | 51.3 | 64.6 | 72.1 | 78.0 | 75.9 | 65.6 | 52.8 | 43.9 | 34.0 | 53.2 |
| 1994 | 20.3 | 26.7 | 38.1 | 56.8 | 59.8 | 76.2 | 78.7 | 71.6 | 65.9 | 53.8 | 49.0 | 38.5 | 53.0 |
| 1995 | 34.8 | 29.1 | 44.7 | 50.9 | 61.9 | 71.6 | 77.9 | 77.4 | 66.9 | 59.0 | 39.6 | 29.6 | 53.6 |
| 1996 | 26.2 | 31.8 | 37.7 | 52.5 | 60.0 | 73.2 | 74.1 | 74.0 | 67.2 | 54.9 | 39.6 | 37.3 | 52.4 |
| 1997 | 29.8 | 38.3 | 42.5 | 51.1 | 59.6 | 71.4 | 77.4 | 74.0 | 67.1 | 56.2 | 41.6 | 36.0 | 53.8 |
| 1998 | 38.2 | 40.4 | 44.5 | 54.6 | 66.8 | 70.8 | 75.3 | 75.1 | 70.6 | 55.9 | 45.9 | 40.7 | 56.6 |
| 1999 | 30.7 | 36.5 | 41.2 | 53.9 | 65.0 | 73.2 | 81.9 | 75.2 | 68.3 | 54.0 | 49.3 | 37.4 | 55.6 |
| POR= 111 YRS | 30.2 | 31.5 | 40.3 | 50.7 | 62.1 | 70.8 | 75.4 | 73.4 | 66.4 | 55.0 | 43.7 | 33.3 | 52.7 |

HEATING DEGREE DAYS (base 65°F) 1999 MIDDLETOWN/HARRISBURG INTL APT PA (MDT)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1970-71 | 0 | 0 | 39 | 213 | 564 | 931 | 1192 | 884 | 812 | 432 | 165 | 12 | 5244 |
| 1971-72 | 0 | 3 | 40 | 146 | 643 | 759 | 940 | 1001 | 766 | 457 | 108 | 44 | 4907 |
| 1972-73 | 0 | 1 | 25 | 395 | 686 | 865 | 964 | 926 | 607 | 422 | 227 | 7 | 5125 |
| 1973-74 | 0 | 1 | 34 | 238 | 534 | 887 | 931 | 910 | 683 | 289 | 133 | 2 | 4642 |
| 1974-75 | 0 | 0 | 94 | 414 | 600 | 911 | 977 | 903 | 818 | 520 | 97 | 13 | 5347 |
| 1975-76 | 0 | 0 | 87 | 232 | 445 | 951 | 1150 | 730 | 639 | 354 | 193 | 23 | 4804 |
| 1976-77 | 0 | 5 | 75 | 418 | 756 | 1075 | 1387 | 966 | 588 | 340 | 106 | 32 | 5748 |
| 1977-78 | 0 | 5 | 35 | 377 | 562 | 1029 | 1196 | 1175 | 810 | 414 | 173 | 17 | 5793 |
| 1978-79 | 14 | 0 | 48 | 321 | 544 | 876 | 1104 | 1182 | 611 | 435 | 123 | 26 | 5284 |
| 1979-80 | 12 | 14 | 71 | 393 | 536 | 844 | 1070 | 1033 | 799 | 361 | 103 | 48 | 5284 |
| 1980-81 | 0 | 0 | 57 | 411 | 761 | 1091 | 1277 | 844 | 809 | 339 | 147 | 6 | 5742 |
| 1981-82 | 0 | 1 | 94 | 437 | 599 | 1021 | 1304 | 948 | 812 | 518 | 128 | 61 | 5923 |
| 1982-83 | 7 | 12 | 67 | 318 | 520 | 725 | 985 | 876 | 686 | 468 | 221 | 25 | 4910 |
| 1983-84 | 0 | 2 | 103 | 362 | 628 | 1117 | 1238 | 817 | 962 | 502 | 240 | 11 | 5982 |
| 1984-85 | 0 | 0 | 105 | 131 | 627 | 724 | 1143 | 849 | 627 | 292 | 87 | 16 | 4601 |
| 1985-86 | 0 | 0 | 41 | 237 | 508 | 1049 | 1038 | 974 | 664 | 349 | 89 | 9 | 4958 |
| 1986-87 | 2 | 17 | 46 | 300 | 705 | 890 | 1080 | 907 | 643 | 380 | 142 | 2 | 5114 |
| 1987-88 | 0 | 8 | 51 | 477 | 627 | 873 | 1252 | 961 | 693 | 445 | 131 | 41 | 5559 |
| 1988-89 | 4 | 5 | 88 | 475 | 633 | 975 | 931 | 912 | 760 | 433 | 196 | 9 | 5421 |
| 1989-90 | 1 | 6 | 81 | 292 | 663 | 1306 | 824 | 744 | 629 | 385 | 175 | 13 | 5119 |
| 1990-91 | 5 | 8 | 96 | 248 | 535 | 816 | 1026 | 769 | 651 | 345 | 69 | 2 | 4570 |
| 1991-92 | 0 | 0 | 103 | 279 | 634 | 877 | 986 | 842 | 761 | 392 | 170 | 16 | 5060 |
| 1992-93 | 0 | 3 | 86 | 420 | 615 | 914 | 931 | 1005 | 875 | 405 | 67 | 15 | 5336 |
| 1993-94 | 0 | 2 | 99 | 371 | 628 | 954 | 1382 | 1067 | 828 | 260 | 195 | 2 | 5788 |
| 1994-95 | 0 | 3 | 41 | 340 | 475 | 815 | 928 | 999 | 623 | 420 | 126 | 3 | 4773 |
| 1995-96 | 0 | 0 | 64 | 218 | 755 | 1090 | 1196 | 960 | 840 | 376 | 208 | 3 | 5710 |
| 1996-97 | 0 | 0 | 54 | 307 | 756 | 852 | 1083 | 741 | 688 | 410 | 175 | 32 | 5098 |
| 1997-98 | 1 | 1 | 46 | 318 | 696 | 892 | 824 | 680 | 653 | 305 | 67 | 29 | 4512 |
| 1998-99 | 0 | 1 | 24 | 278 | 565 | 748 | 1059 | 792 | 733 | 329 | 61 | 6 | 4596 |
| 1999- | 0 | 0 | 36 | 334 | 464 | 850 | | | | | | | |

WBAN : 14711

COOLING DEGREE DAYS (base 65°F) 1999 MIDDLETOWN/HARRISBURG INTL APT PA (MD)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1970 | 0 | 0 | 0 | 7 | 102 | 191 | 353 | 333 | 246 | 24 | 0 | 0 | 1256 |
| 1971 | 0 | 0 | 0 | 0 | 17 | 241 | 331 | 236 | 195 | 17 | 6 | 0 | 1043 |
| 1972 | 0 | 0 | 0 | 0 | 33 | 133 | 357 | 287 | 137 | 3 | 0 | 0 | 950 |
| 1973 | 0 | 0 | 0 | 8 | 13 | 266 | 334 | 352 | 148 | 9 | 0 | 0 | 1130 |
| 1974 | 0 | 0 | 0 | 34 | 79 | 176 | 401 | 381 | 88 | 1 | 3 | 0 | 1163 |
| 1975 | 0 | 0 | 0 | 0 | 97 | 192 | 325 | 354 | 44 | 12 | 2 | 0 | 1026 |
| 1976 | 0 | 0 | 0 | 47 | 22 | 283 | 233 | 240 | 73 | 3 | 0 | 0 | 901 |
| 1977 | 0 | 0 | 4 | 19 | 95 | 147 | 347 | 297 | 140 | 1 | 3 | 0 | 1053 |
| 1978 | 0 | 0 | 0 | 0 | 69 | 162 | 273 | 377 | 133 | 1 | 0 | 0 | 1015 |
| 1979 | 0 | 0 | 0 | 5 | 43 | 138 | 279 | 264 | 92 | 7 | 0 | 0 | 828 |
| 1980 | 0 | 0 | 0 | 0 | 57 | 138 | 355 | 350 | 145 | 0 | 0 | 0 | 1045 |
| 1981 | 0 | 0 | 0 | 6 | 60 | 213 | 339 | 232 | 66 | 0 | 0 | 0 | 916 |
| 1982 | 0 | 0 | 0 | 2 | 48 | 70 | 307 | 191 | 83 | 19 | 4 | 0 | 724 |
| 1983 | 0 | 0 | 0 | 6 | 22 | 154 | 343 | 315 | 146 | 13 | 0 | 0 | 999 |
| 1984 | 0 | 0 | 0 | 0 | 34 | 256 | 292 | 342 | 95 | 35 | 0 | 1 | 1055 |
| 1985 | 0 | 0 | 0 | 55 | 99 | 157 | 345 | 290 | 173 | 4 | 0 | 0 | 1123 |
| 1986 | 0 | 0 | 5 | 12 | 116 | 205 | 360 | 238 | 88 | 27 | 0 | 0 | 1051 |
| 1987 | 0 | 0 | 0 | 9 | 94 | 237 | 418 | 266 | 76 | 0 | 0 | 0 | 1100 |
| 1988 | 0 | 0 | 0 | 0 | 53 | 219 | 439 | 355 | 52 | 4 | 0 | 0 | 1122 |
| 1989 | 0 | 0 | 5 | 0 | 49 | 182 | 279 | 249 | 114 | 9 | 1 | 0 | 888 |
| 1990 | 0 | 0 | 14 | 34 | 12 | 205 | 330 | 254 | 102 | 43 | 0 | 0 | 994 |
| 1991 | 0 | 0 | 0 | 16 | 202 | 284 | 429 | 355 | 118 | 31 | 0 | 0 | 1435 |
| 1992 | 0 | 0 | 0 | 1 | 29 | 151 | 314 | 214 | 108 | 0 | 0 | 0 | 817 |
| 1993 | 0 | 0 | 0 | 0 | 63 | 236 | 410 | 348 | 127 | 0 | 0 | 0 | 1184 |
| 1994 | 0 | 0 | 0 | 20 | 40 | 343 | 428 | 213 | 76 | 0 | 1 | 0 | 1121 |
| 1995 | 0 | 0 | 0 | 6 | 41 | 208 | 409 | 392 | 124 | 36 | 0 | 0 | 1216 |
| 1996 | 0 | 0 | 0 | 9 | 61 | 253 | 286 | 288 | 126 | 1 | 0 | 0 | 1024 |
| 1997 | 0 | 0 | 0 | 0 | 14 | 230 | 392 | 283 | 117 | 50 | 0 | 0 | 1086 |
| 1998 | 0 | 0 | 24 | 1 | 130 | 209 | 326 | 323 | 199 | 0 | 0 | 0 | 1212 |
| 1999 | 0 | 0 | 0 | 0 | 72 | 260 | 530 | 323 | 142 | 1 | 0 | 0 | 1328 |

SNOWFALL (inches) 1999 MIDDLETOWN/HARRISBURG INTL APT PA (MDT)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-------|
| 1970-71 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 11.6 | 5.1 | 5.3 | T | 0.0 | 0.0 | 32.9 |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | T | 2.6 | 21.6 | 0.5 | 1.1 | 0.0 | 0.0 | 34.6 |
| 1972-73 | 0.0 | 0.0 | 0.0 | 1.2 | 5.9 | 0.5 | T | 5.7 | T | T | 0.0 | 0.0 | 13.3 |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | T | 15.3 | 7.0 | 5.5 | T | T | 0.0 | 0.0 | 27.8 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.5 | 11.3 | 13.1 | 6.1 | T | 0.0 | 0.0 | 31.0 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.2 | 3.6 | 2.5 | 10.0 | 0.0 | 0.0 | 0.0 | 18.3 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 5.1 | 12.2 | 4.5 | 0.2 | T | T | 0.0 | 23.4 |
| 1977-78 | 0.0 | 0.0 | 0.0 | T | 1.5 | 5.5 | 33.5 | 21.1 | 9.0 | 0.0 | 0.0 | 0.0 | 70.6 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.3 | 9.2 | 26.0 | T | T | 0.0 | 0.0 | 39.5 |
| 1979-80 | 0.0 | 0.0 | 0.0 | T | T | 0.2 | 3.8 | 2.7 | 7.9 | 0.0 | 0.0 | 0.0 | 14.6 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 4.3 | 5.5 | 4.4 | 6.7 | 0.0 | 0.0 | 0.0 | 24.9 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 12.5 | 18.8 | 8.4 | 7.8 | 10.2 | 0.0 | 0.0 | 58.5 |
| 1982-83 | 0.0 | 0.0 | 0.0 | T | T | 1.1 | 4.4 | 28.8 | 0.4 | 1.3 | 0.0 | 0.0 | 36.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | T | 4.6 | 9.7 | 2.3 | 14.9 | T | 0.0 | 0.0 | 31.5 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 2.6 | 10.6 | 11.4 | T | 3.6 | 0.0 | 0.0 | 30.1 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.6 | 7.8 | 23.1 | T | T | 0.0 | 0.0 | 36.5 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.9 | 31.5 | 10.1 | 1.4 | 1.0 | 0.0 | 0.0 | 45.9 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 3.6 | 9.6 | 2.8 | 1.0 | T | 0.0 | 0.0 | 26.7 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 6.4 | 2.2 | 11.3 | 0.0 | 0.0 | 0.0 | 19.9 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 6.7 | 4.9 | 1.3 | 3.5 | 1.1 | 0.0 | 0.0 | 19.3 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | 5.2 | 0.7 | 5.9 | T | 0.0 | 0.0 | 21.1 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.7 | 4.6 | 6.6 | 0.0 | 0.0 | T | 12.9 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | T | 3.9 | 1.4 | 18.5 | 22.8 | 0.6 | 0.0 | T | 47.2 |
| 1993-94 | 0.0 | T | 0.0 | 0.0 | T | 0.9 | 34.2 | 22.0 | 18.8 | 0.0 | 0.0 | 0.0 | 75.9 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.6 | 5.6 | 1.8 | 0.0 | 0.0 | 0.0 | 9.0 |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 17.4 | 38.9 | 6.3 | 2.3 | 4.6 | | | |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.1 | 3.7 | 6.9 | 5.9 | 0.0 | 0.0 | 0.0 | 22.8 |
| 1997-98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 4.8 | 5.3 | 0.4 | 0.6 | 0.0 | 0.0 | 0.0 | 11.4 |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 7.4 | 1.3 | 10.6 | 0.0 | 0.0 | 0.0 | 20.1 |
| 1999- | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.1 | | | | | | | |
| POR= 59 YRS | 0.0 | T | 0.0 | 0.0 | 2.0 | 6.5 | 9.8 | 8.9 | 6.4 | 0.6 | T | T | 34.2 |

WBAN : 14711

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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
|---|---|

1999
MIDDLETOWN/HARRISBURG INTL APT
PENNSYLVANIA (MDT)

Harrisburg, the capital of Pennsylvania, is situated on the east bank of the Susquehanna River. It is in the Great Valley formed by the eastern foothills of the Appalachian Chain, and about 60 miles southeast of the Commonwealths geographic center. It is nested in a saucer-like bowl, 10 miles south of Blue Mountain, which serves as a barrier to provide a modifying influence upon the severe winter climate experienced 50 to 100 miles to the north and west. Although the severity of the winter climate is lessened, the city lies a little too far inland to derive the full benefits of the coastal Climate.

Air masses change with some regularity, and any one condition does not persist for many days in succession. The mountain barrier occasionally prevents cold waves from reaching the Great Valley. The city is favorably located to receive precipitation produced when warm, maritime air from the Atlantic Ocean is forced upslope to cross the Blue Ridge Mountains.

The Growing Season is 192 days.

During June 1992, Hurricane Agnes produced 15.11 inches of rain from the 20th to the 23rd. Prolonged dry spells occur occasionally. During September and October 1947 there were 35 consecutive days with less than .01 inches of precipitation.

Flood stage on the Susquehanna River occurs on the average of about every three years in Harrisburg, but serious flooding is much less frequent. About one-third of all floods have occurred during March. Tropical hurricanes rarely reach Harrisburg with destructive winds.

STATION LOCATION

MIDDLETOWN, PA

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | REMARKS | |
|----------------------------------|---------------|-------------|---|----------------|----------------|-----------------|--------|-------|------|------|-----|-----|----|---|---|---------|-----------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | AUTOMATED |
| | | | | | | | WIND | SOUND | TEMP | PRES | REL | HGT | R | 8 | H | | |
| Harrisburg International Airport | 10/1/91 | Present | | 40° 12' | 76° 46' | 310 | 10 | | 5 | 33 | 30 | 30 | 30 | | Station established 10/1/92. Sunshine switch, tipping bucket, weighing rain gage, 8" rain gage are all on the roof. | | |

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

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