

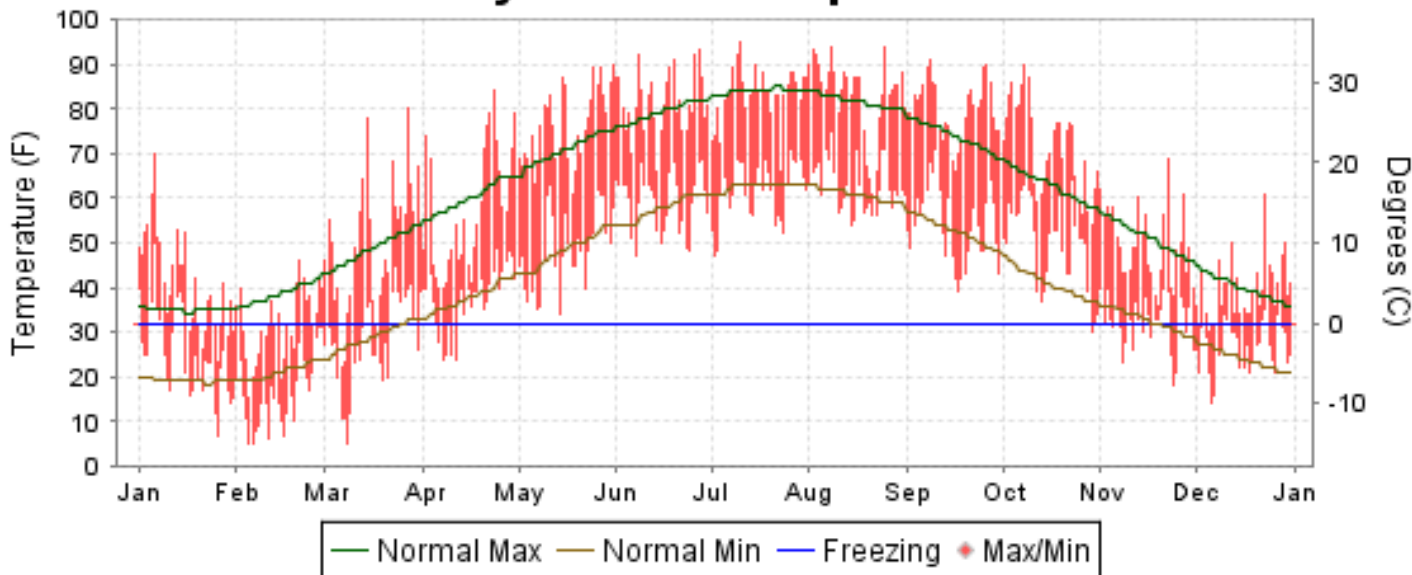


2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

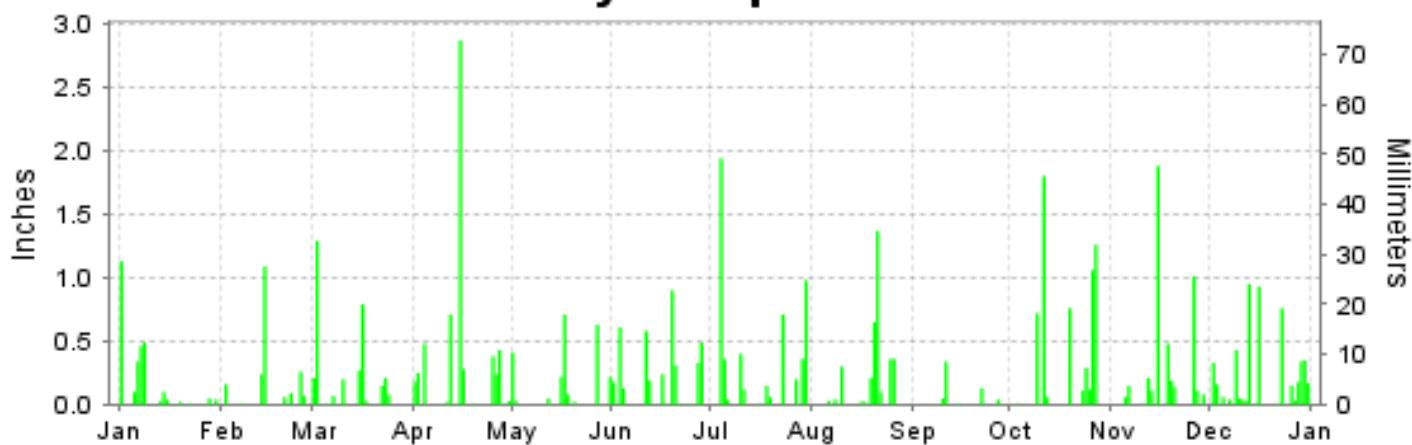
ISSN 0198-4454

ALLENTOWN, PENNSYLVANIA (KABE)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2007

ALLENTOWN (KABE)

LATITUDE: 40 ° 39'N LONGITUDE: -75 ° 26'W ELEVATION (FT): GRND: 385 BARO: 378 TIME ZONE: EASTERN (UTC -5) WBAN: 14737

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 41.3 | 31.7 | 50.0 | 57.4 | 76.3 | 81.5 | 83.4 | 83.2 | 80.0 | 71.6 | 49.5 | 39.5 | 62.1 | |
| | HIGHEST DAILY MAXIMUM | 70 | 46 | 80 | 84 | 90 | 93 | 95 | 94 | 91 | 90 | 69 | 61 | 95 | |
| | DATE OF OCCURRENCE | 06 | 21 | 27 | 23 | 31 | 27 | 10 | 25+ | 08 | 08 | 22 | 23 | JUL 10 | |
| | MEAN DAILY MINIMUM | 25.1 | 16.2 | 28.0 | 37.7 | 48.6 | 59.2 | 61.5 | 62.7 | 53.9 | 49.9 | 32.1 | 26.4 | 41.8 | |
| | LOWEST DAILY MINIMUM | 7 | 5 | 5 | 24 | 34 | 47 | 47 | 54 | 39 | 30 | 18 | 14 | 5 | |
| | DATE OF OCCURRENCE | 26 | 06+ | 08 | 11+ | 14 | 07 | 02 | 14 | 17 | 29 | 24 | 06 | MAR 08 | |
| | AVERAGE DRY BULB | 33.2 | 24.0 | 39.0 | 47.6 | 62.5 | 70.4 | 72.5 | 73.0 | 67.0 | 60.8 | 40.8 | 33.0 | 52.0 | |
| | MEAN WET BULB | 30.3 | 20.6 | 33.4 | 41.2 | 53.8 | 62.7 | 64.5 | 66.5 | 60.5 | 55.4 | 37.2 | 30.8 | 46.4 | |
| | MEAN DEW POINT | 22.4 | 10.4 | 23.1 | 32.2 | 45.0 | 57.4 | 59.1 | 62.6 | 55.4 | 51.2 | 31.1 | 25.6 | 39.6 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 6 | 2 | 1 | 0 | 0 | 0 | 17 |
| | MAXIMUM <= 32° | 9 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 32 | |
| MINIMUM <= 32° | 23 | 28 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 26 | 119 | | |
| MINIMUM <= 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| H/C | HEATING DEGREE DAYS | 978 | 1143 | 798 | 519 | 143 | 15 | 11 | 15 | 53 | 192 | 718 | 986 | 5571 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 70 | 183 | 251 | 269 | 120 | 65 | 0 | 0 | 958 | |
| RH | MEAN (PERCENT) | 64 | 56 | 57 | 59 | 55 | 66 | 65 | 72 | 68 | 74 | 70 | 74 | 65 | |
| | HOUR 01 LST | 70 | 61 | 67 | 71 | 70 | 82 | 78 | 86 | 85 | 87 | 76 | 77 | 76 | |
| | HOUR 07 LST | 72 | 62 | 65 | 65 | 59 | 68 | 69 | 77 | 78 | 85 | 79 | 78 | 71 | |
| | HOUR 13 LST | 53 | 48 | 45 | 47 | 37 | 50 | 48 | 55 | 46 | 56 | 58 | 67 | 51 | |
| | HOUR 19 LST | 65 | 54 | 54 | 55 | 51 | 64 | 62 | 71 | 66 | 73 | 67 | 75 | 63 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 3 | 0 | 5 | 2 | 0 | 3 | 1 | 1 | 0 | 1 | 4 | 5 | 25 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 4 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 17 | |
| CLOUDNESS | 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.) | 29.63 | 29.54 | 29.77 | 29.47 | 29.70 | 29.54 | 29.62 | 29.58 | 29.71 | 29.66 | 29.65 | 29.70 | 29.63 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.06 | 29.98 | 30.20 | 29.89 | 30.11 | 29.96 | 30.02 | 29.99 | 30.13 | 30.07 | 30.08 | 30.13 | 30.05 | |
| WINDS | RESULTANT SPEED (MPH) | 4.4 | 6.7 | 3.2 | 3.3 | 1.8 | 1.7 | 1.7 | 0.5 | 1.4 | 1.5 | 2.5 | 2.3 | 2.5 | |
| | RES. DIR. (TENS OF DEGS.) | 27 | 28 | 30 | 30 | 27 | 27 | 26 | 33 | 26 | 24 | 29 | 30 | 29 | |
| | MEAN SPEED (MPH) | 7.6 | 9.9 | 8.1 | 9.2 | 6.5 | 6.1 | 5.8 | 5.4 | 5.2 | 6.1 | 6.4 | 6.9 | 6.9 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 27 | 26 | 26 | 28 | 23 | 23 | 24 | 04 | 33 | 23 | 05 | 23 | 26 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 29 | 29 | 32 | 31 | 35 | 29 | 48 | 30 | 26 | 28 | 28 | 30 | 48 | |
| | DIR. (TENS OF DEGS.) | 29 | 30 | 30 | 31 | 24 | 32 | 18 | 32 | 29 | 28 | 24 | 28 | 18 | |
| | DATE OF OCCURRENCE | 20 | 14 | 06 | 16 | 27 | 28 | 10 | 17 | 28 | 19 | 27 | 17 | JUL 10 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 43 | 39 | 43 | 46 | 56 | 38 | 59 | 39 | 35 | 38 | 38 | 44 | 59 | |
| DIR. (TENS OF DEGS.) | 29 | 29 | 24 | 29 | 25 | 29 | 17 | 33 | 29 | 27 | 23 | 29 | 17 | | |
| DATE OF OCCURRENCE | 19 | 14 | 05 | 16 | 27 | 28 | 10 | 17 | 28 | 19 | 27 | 17 | JUL 10 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.81 | 1.98 | 3.32 | 5.89 | 2.37 | 3.99 | 5.33 | 3.47 | 0.57 | 6.19 | 4.44 | 5.02 | 45.38 | |
| | GREATEST 24-HOUR (IN.) | 1.13 | 1.24 | 1.50 | 2.89 | 0.79 | 1.21 | 2.19 | 1.73 | 0.34 | 2.32 | 1.89 | 0.95 | 2.89 | |
| | DATE OF OCCURRENCE | 01 | 13-14 | 01-02 | 15-16 | 17-18 | 19-20 | 04-05 | 20-21 | 11 | 26-27 | 14-15 | 13 | APR 15-16 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION 0.01 | 12 | 8 | 12 | 13 | 9 | 13 | 12 | 12 | 5 | 10 | 13 | 19 | 138 | |
| PRECIPITATION 0.10 | 6 | 4 | 7 | 9 | 5 | 10 | 9 | 7 | 2 | 8 | 9 | 11 | 87 | | |
| PRECIPITATION 1.00 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 2 | 0 | 11 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.1 | 11.2 | 9.7 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.9 | 33.1 | |
| | GREATEST 24-HOUR (IN.) | 1.1 | 5.2 | 8.2 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 1.8 | 8.2 | |
| | DATE OF OCCURRENCE | 28 | 14 | 16 | 16+ | | | | | | | 18 | 16 | MAR 16 | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | 2 | 2 | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | 19 | 19+ | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | | |

NORMALS, MEANS, AND EXTREMES

ALLENTOWN (KABE)

LATITUDE: 40 ° 39'N LONGITUDE: -75 ° 26'W ELEVATION (FT): GRND: 385 BARO: 378 TIME ZONE: EASTERN (UTC -5) WBAN: 14737

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|---------------------|--|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 35.0 | 38.7 | 48.7 | 60.1 | 70.9 | 79.3 | 83.9 | 81.7 | 74.0 | 62.9 | 51.2 | 40.0 | 60.5 |
| | MEAN DAILY MAXIMUM | 60 | 35.8 | 38.9 | 48.5 | 61.1 | 71.4 | 80.1 | 84.7 | 82.6 | 75.2 | 64.3 | 52.1 | 40.0 | 61.2 |
| | HIGHEST DAILY MAXIMUM | 64 | 72 | 76 | 87 | 93 | 97 | 100 | 105 | 100 | 99 | 90 | 81 | 72 | 105 |
| | YEAR OF OCCURRENCE | | 1950 | 1985 | 1998 | 1976 | 1962 | 1966 | 1966 | 1955 | 1980 | 2007 | 1950 | 2006 | JUL 1966 |
| | MEAN OF EXTREME MAXS. | 60 | 56.0 | 57.8 | 70.9 | 81.8 | 87.7 | 92.5 | 94.5 | 92.4 | 88.7 | 79.8 | 70.3 | 59.3 | 77.6 |
| | NORMAL DAILY MINIMUM | 30 | 19.1 | 21.0 | 28.9 | 37.8 | 48.3 | 57.7 | 62.6 | 60.7 | 52.7 | 41.1 | 32.7 | 24.0 | 40.6 |
| | MEAN DAILY MINIMUM | 60 | 20.2 | 21.7 | 29.4 | 39.1 | 49.1 | 58.5 | 63.4 | 61.8 | 53.9 | 42.6 | 33.7 | 24.3 | 41.5 |
| | LOWEST DAILY MINIMUM | 64 | -15 | -8 | -1 | 16 | 28 | 39 | 46 | 41 | 30 | 21 | 11 | -8 | -15 |
| | YEAR OF OCCURRENCE | | 1994 | 1996 | 1967 | 1982 | 1947 | 1972 | 2001 | 1986 | 1947 | 1988 | 1976 | 1950 | JAN 1994 |
| | MEAN OF EXTREME MINS. | 60 | 2.7 | 4.4 | 13.0 | 25.8 | 35.5 | 46.0 | 52.5 | 49.4 | 38.7 | 28.3 | 19.8 | 7.6 | 27.0 |
| | NORMAL DRY BULB | 30 | 27.1 | 29.9 | 38.8 | 49.0 | 59.6 | 68.5 | 73.3 | 71.2 | 63.4 | 52.0 | 42.0 | 32.0 | 50.6 |
| | MEAN DRY BULB | 60 | 28.0 | 30.3 | 39.0 | 50.1 | 60.3 | 69.5 | 74.0 | 72.2 | 64.5 | 53.5 | 42.9 | 32.2 | 51.4 |
| | MEAN WET BULB | 24 | 26.0 | 27.0 | 33.8 | 43.5 | 53.5 | 62.6 | 66.7 | 65.8 | 59.1 | 48.4 | 38.9 | 29.7 | 46.3 |
| | MEAN DEW POINT | 24 | 20.5 | 20.7 | 27.0 | 36.9 | 48.5 | 58.7 | 63.3 | 62.7 | 55.9 | 44.3 | 33.9 | 24.5 | 41.4 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 2.6 | 6.5 | 3.6 | 0.8 | 0.0 | 0.0 | 0.0 | 14.4 |
| MAXIMUM <= 32 | 30 | 11.9 | 7.7 | 1.4 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 6.0 | 27.3 | |
| MINIMUM <= 32 | 30 | 27.5 | 23.3 | 18.4 | 5.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 3.5 | 13.6 | 24.5 | 116.9 | |
| MINIMUM <= 0 | 30 | 1.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.6 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1159 | 967 | 797 | 470 | 197 | 34 | 15 | 8 | 106 | 392 | 675 | 1010 | 5830 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 1 | 6 | 45 | 153 | 288 | 216 | 73 | 5 | 0 | 0 | 787 |
| RH | NORMAL (PERCENT) | 30 | 70 | 66 | 62 | 61 | 66 | 68 | 70 | 72 | 74 | 72 | 70 | 71 | 69 |
| | HOURLY 01 LST | 30 | 74 | 72 | 69 | 69 | 76 | 81 | 82 | 84 | 86 | 83 | 77 | 76 | 77 |
| | HOURLY 07 LST | 30 | 77 | 76 | 74 | 73 | 77 | 80 | 82 | 86 | 88 | 86 | 80 | 78 | 80 |
| | HOURLY 13 LST | 30 | 62 | 57 | 52 | 49 | 53 | 55 | 54 | 56 | 58 | 56 | 58 | 62 | 56 |
| | HOURLY 19 LST | 30 | 68 | 63 | 57 | 54 | 57 | 60 | 61 | 65 | 69 | 67 | 66 | 68 | 63 |
| S | PERCENT POSSIBLE SUNSHINE | 12 | 43 | 48 | 53 | 47 | 54 | 63 | 57 | 56 | 54 | 53 | 45 | 42 | 51 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY <= 1/4 MI) THUNDERSTORMS | 44 60 | 2.6 0.3 | 2.3 0.2 | 2.1 0.8 | 1.3 2.0 | 1.3 3.7 | 1.2 5.4 | 1.0 6.0 | 1.5 5.1 | 2.3 2.6 | 2.3 0.8 | 2.0 0.7 | 2.6 0.1 | 22.5 27.7 |
| CLOUDNESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 51 | 5.4 | 5.1 | 5.1 | 5.1 | 5.1 | 4.8 | 4.6 | 4.5 | 4.5 | 4.4 | 5.2 | 5.3 | 4.9 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 5.0 | 4.7 | 4.8 | 4.7 | 4.7 | 4.5 | 4.3 | 4.3 | 4.3 | 4.2 | 5.0 | 5.1 | 4.6 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 52 | 6.9 | 7.2 | 7.7 | 6.9 | 6.7 | 7.6 | 8.0 | 8.7 | 9.2 | 10.2 | 6.7 | 6.9 | 92.7 |
| PARTLY CLOUDY | 52 | 7.9 | 7.8 | 8.5 | 8.8 | 10.7 | 11.0 | 11.7 | 10.8 | 8.6 | 8.6 | 7.8 | 7.3 | 109.5 | |
| CLOUDY | 52 | 16.2 | 13.2 | 14.8 | 14.3 | 13.7 | 11.5 | 10.7 | 10.9 | 11.6 | 11.6 | 15.0 | 16.3 | 159.8 | |
| PR | MEAN STATION PRESSURE (IN) | 24 | 29.65 | 29.65 | 29.62 | 29.56 | 29.58 | 29.57 | 29.59 | 29.62 | 29.66 | 29.67 | 29.67 | 29.67 | 29.63 |
| | MEAN SEA-LEVEL PRES. (IN) | 24 | 30.08 | 30.08 | 30.04 | 29.97 | 29.99 | 29.97 | 29.99 | 30.03 | 30.07 | 30.09 | 30.09 | 30.10 | 30.04 |
| WINDS | MEAN SPEED (MPH) | 24 | 8.7 | 9.1 | 9.5 | 9.1 | 8.1 | 7.3 | 6.6 | 6.2 | 6.5 | 7.1 | 7.9 | 8.2 | 7.9 |
| | PREVAIL. DIR (TENS OF DEGS) | 32 | 28 | 28 | 30 | 33 | 24 | 25 | 24 | 24 | 24 | 25 | 25 | 27 | 28 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 12 | 43 | 38 | 46 | 40 | 53 | 33 | 48 | 32 | 35 | 35 | 39 | 39 | 53 |
| | DIR. (TENS OF DEGS) | | 19 | 29 | 00 | 27 | 25 | 34 | 18 | 30 | 07 | 27 | 27 | 20 | 25 |
| | YEAR OF OCCURRENCE | | 1996 | 2002 | 1996 | 2002 | 2000 | 2000 | 2007 | 2002 | 2003 | 2003 | 2003 | 2006 | MAY 2000 |
| | MAXIMUM 5-SECOND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 12 | 53 | 53 | 56 | 53 | 68 | 46 | 59 | 40 | 47 | 48 | 51 | 51 | 68 |
| DIR. (TENS OF DEGS) | | 16 | 34 | 00 | 26 | 25 | 30 | 17 | 29 | 16 | 29 | 30 | 20 | 25 | |
| YEAR OF OCCURRENCE | | 2006 | 1998 | 1996 | 2002 | 2000 | 2000 | 2007 | 2002 | 2003 | 2003 | 2003 | 2006 | MAY 2000 | |
| PRECIPITATION | NORMAL (IN) | 30 | 3.50 | 2.75 | 3.56 | 3.49 | 4.47 | 3.99 | 4.27 | 4.35 | 4.37 | 3.33 | 3.70 | 3.39 | 45.17 |
| | MAXIMUM MONTHLY (IN) | 64 | 8.42 | 5.44 | 7.21 | 10.09 | 10.62 | 9.13 | 10.42 | 12.10 | 11.57 | 13.16 | 9.69 | 7.89 | 13.16 |
| | YEAR OF OCCURRENCE | | 1979 | 1971 | 1953 | 1952 | 1984 | 2006 | 1969 | 1955 | 1999 | 2005 | 1972 | 1973 | OCT 2005 |
| | MINIMUM MONTHLY (IN) | 64 | 0.67 | 0.55 | 0.92 | 0.61 | 0.09 | 0.34 | 0.33 | 0.76 | 0.57 | 0.15 | 0.68 | 0.39 | 0.09 |
| | YEAR OF OCCURRENCE | | 1981 | 2002 | 2006 | 1985 | 1964 | 1949 | 1999 | 1995 | 2007 | 1963 | 1976 | 1955 | MAY 1964 |
| | MAXIMUM IN 24 HOURS (IN) | 64 | 2.47 | 2.05 | 3.08 | 3.46 | 3.36 | 3.55 | 4.54 | 5.84 | 7.85 | 9.10 | 3.40 | 3.04 | 9.10 |
| | YEAR OF OCCURRENCE | | 1949 | 1966 | 1952 | 2005 | 1984 | 1967 | 1969 | 1982 | 1985 | 2005 | 1972 | 1993 | OCT 2005 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION >= 0.01 | 30 | 11.2 | 10.2 | 11.1 | 11.3 | 12.4 | 11.2 | 10.5 | 9.4 | 9.9 | 8.7 | 10.0 | 11.0 | 126.9 |
| | PRECIPITATION >= 1.00 | 30 | 0.9 | 0.4 | 0.9 | 0.9 | 1.2 | 1.1 | 1.2 | 1.3 | 1.1 | 1.0 | 0.9 | 0.8 | 11.7 |
| SNOWFALL | NORMAL (IN) | 30 | 11.1 | 9.4 | 5.7 | 0.8 | 0.* | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.4 | 3.8 | 32.3 |
| | MAXIMUM MONTHLY (IN) | 61 | 35.5 | 29.5 | 30.5 | 13.4 | T | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 7.8 | 28.4 | 35.5 |
| | YEAR OF OCCURRENCE | | 1996 | 1983 | 1958 | 1982 | 1994 | | | | | 1972 | 1967 | 1966 | JAN 1996 |
| | MAXIMUM IN 24 HOURS (IN) | 61 | 25.6 | 25.2 | 17.5 | 11.4 | T | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 6.4 | 13.3 | 25.6 |
| | YEAR OF OCCURRENCE | | 1996 | 1983 | 1958 | 1982 | 1994 | | | | | 1972 | 1968 | 1966 | JAN 1996 |
| | MAXIMUM SNOW DEPTH (IN) | 49 | 241 | 368 | 199 | 36 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 115 | 368 |
| | YEAR OF OCCURRENCE | | 1994 | 1994 | 1994 | 1982 | | | | | | 1972 | 1953 | 1966 | FEB 1994 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 30 | 2.8 | 2.2 | 1.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 1.4 | 8.3 | |

PRECIPITATION (inches) 2007 ALLENTOWN (KABE)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|-------|------|------|------|-------|-------|------|------|--------|
| 1978 | 7.42 | 1.60 | 3.94 | 1.55 | 5.52 | 3.15 | 3.64 | 8.95 | 2.28 | 1.96 | 2.02 | 3.96 | 45.99 |
| 1979 | 8.42 | 4.49 | 2.35 | 3.74 | 4.85 | 1.20 | 5.57 | 2.07 | 7.19 | 4.36 | 2.99 | 2.48 | 49.71 |
| 1980 | 0.81 | 1.01 | 5.84 | 4.39 | 3.38 | 2.90 | 1.50 | 0.93 | 1.99 | 3.09 | 3.23 | 0.75 | 29.82 |
| 1981 | 0.67 | 4.79 | 0.97 | 3.43 | 4.82 | 5.72 | 2.71 | 1.60 | 2.74 | 2.82 | 1.63 | 3.18 | 35.08 |
| 1982 | 3.48 | 2.63 | 1.99 | 4.73 | 4.02 | 7.16 | 2.86 | 8.43 | 1.76 | 1.56 | 3.40 | 1.38 | 43.40 |
| 1983 | 2.84 | 3.21 | 5.35 | 7.87 | 4.21 | 4.68 | 2.02 | 2.38 | 1.41 | 4.83 | 6.29 | 7.61 | 52.70 |
| 1984 | 1.53 | 3.64 | 3.82 | 5.08 | 10.62 | 4.20 | 9.26 | 4.17 | 1.10 | 4.26 | 1.66 | 3.07 | 52.41 |
| 1985 | 0.84 | 2.28 | 1.56 | 0.61 | 5.47 | 5.06 | 7.61 | 3.46 | 8.72 | 1.97 | 7.74 | 1.71 | 47.03 |
| 1986 | 4.27 | 4.29 | 2.07 | 4.31 | 1.83 | 2.51 | 4.46 | 3.77 | 3.07 | 1.91 | 6.32 | 4.39 | 43.20 |
| 1987 | 3.89 | 1.11 | 2.10 | 4.42 | 2.28 | 4.42 | 4.41 | 7.09 | 8.87 | 2.64 | 3.98 | 1.49 | 46.70 |
| 1988 | 2.75 | 3.28 | 2.56 | 1.36 | 7.43 | 1.79 | 6.17 | 2.72 | 3.21 | 2.18 | 4.98 | 0.99 | 39.42 |
| 1989 | 1.79 | 2.18 | 3.82 | 1.31 | 9.52 | 5.81 | 4.09 | 3.05 | 5.93 | 4.30 | 1.90 | 1.31 | 45.01 |
| 1990 | 4.57 | 2.38 | 1.52 | 2.31 | 6.66 | 2.86 | 3.20 | 6.47 | 1.97 | 3.12 | 3.53 | 5.68 | 44.27 |
| 1991 | 2.77 | 1.14 | 3.71 | 3.11 | 2.90 | 1.06 | 5.28 | 2.54 | 3.32 | 2.57 | 2.48 | 3.50 | 34.38 |
| 1992 | 1.73 | 1.49 | 3.32 | 0.88 | 4.88 | 3.36 | 5.36 | 4.08 | 3.42 | 1.86 | 5.06 | 3.27 | 38.71 |
| 1993 | 1.98 | 2.81 | 6.59 | 6.81 | 1.43 | 4.09 | 2.99 | 5.39 | 7.77 | 5.31 | 2.83 | 4.96 | 52.96 |
| 1994 | 5.69 | 3.14 | 5.92 | 3.04 | 2.67 | 5.46 | 5.57 | 6.18 | 2.61 | 1.25 | 4.21 | 3.08 | 48.82 |
| 1995 | 3.49 | 2.52 | 3.20 | 2.46 | 2.93 | 1.44 | 5.86 | 0.76 | 2.66 | 7.49 | 3.65 | 1.44 | 37.90 |
| 1996 | 7.32 | 2.11 | 3.34 | 5.54 | 2.16 | 4.45 | 7.12 | .91 | 5.20 | 6.71 | 4.71 | 7.30 | 56.87 |
| 1997 | 3.38 | 1.32 | 3.71 | 1.62 | 3.23 | 2.62 | 6.84 | 5.12 | 3.54 | 2.03 | 2.71 | 2.37 | 38.49 |
| 1998 | 3.42 | 3.85 | 3.86 | 5.21 | 4.58 | 4.95 | 1.17 | 3.12 | 2.96 | 4.49 | 1.39 | 0.62 | 39.62 |
| 1999 | 5.44 | 2.67 | 3.07 | 3.20 | 3.27 | 0.97 | 0.33 | 3.81 | 11.57 | 2.52 | 2.39 | 2.45 | 41.69 |
| 2000 | 3.00 | 1.89 | 5.04 | 3.76 | 5.54 | 5.57 | 3.35 | 5.22 | 3.75 | 1.10 | 2.24 | 4.37 | 44.83 |
| 2001 | 2.65 | 2.37 | 4.19 | 1.59 | 4.38 | 5.55 | 4.63 | 2.51 | 4.21 | 0.81 | 1.09 | 1.92 | 35.90 |
| 2002 | 1.45 | 0.55 | 3.62 | 3.83 | 4.42 | 4.65 | 1.14 | 2.25 | 4.04 | 6.84 | 3.32 | 4.95 | 41.06 |
| 2003 | 1.40 | 3.10 | 3.62 | 2.23 | 3.20 | 8.30 | 5.44 | 5.07 | 11.08 | 5.15 | 3.37 | 4.97 | 56.93 |
| 2004 | 2.25 | 2.53 | 1.90 | 3.90 | 3.77 | 3.18 | 8.06 | 4.53 | 9.56 | 3.12 | 4.95 | 3.84 | 51.59 |
| 2005 | 5.38 | 2.72 | 3.75 | 6.56 | 1.23 | 4.27 | 4.23 | 2.14 | 0.76 | 13.16 | 3.58 | 3.57 | 51.35 |
| 2006 | 5.23 | 2.37 | 0.92 | 3.18 | 1.80 | 9.13 | 8.17 | 2.41 | 5.79 | 3.52 | 4.49 | 2.28 | 49.29 |
| 2007 | 2.81 | 1.98 | 3.32 | 5.89 | 2.37 | 3.99 | 5.33 | 3.47 | 0.57 | 6.19 | 4.44 | 5.02 | 45.38 |
| POR= 60 YRS | 3.31 | 2.78 | 3.58 | 3.76 | 3.92 | 3.80 | 4.39 | 4.13 | 4.21 | 3.34 | 3.67 | 3.58 | 44.47 |

WBAN : 14737

AVERAGE TEMPERATURE (°F) 2007 ALLENTOWN (KABE)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1978 | 24.9 | 22.3 | 36.7 | 50.5 | 60.8 | 70.8 | 72.4 | 73.3 | 64.2 | 52.9 | 44.3 | 33.5 | 50.6 |
| 1979 | 28.0 | 20.5 | 44.3 | 49.5 | 62.1 | 68.0 | 73.2 | 72.8 | 65.3 | 52.5 | 47.8 | 36.2 | 51.7 |
| 1980 | 30.7 | 27.3 | 38.6 | 52.9 | 63.8 | 68.2 | 77.3 | 78.2 | 70.3 | 54.4 | 41.4 | 29.6 | 52.7 |
| 1981 | 23.2 | 35.3 | 38.4 | 51.7 | 61.2 | 71.6 | 74.7 | 70.6 | 63.6 | 49.8 | 43.3 | 30.6 | 51.2 |
| 1982 | 19.9 | 29.9 | 37.3 | 47.2 | 62.5 | 65.7 | 73.5 | 68.3 | 64.1 | 54.0 | 45.5 | 38.5 | 50.5 |
| 1983 | 30.2 | 32.0 | 41.9 | 49.2 | 58.3 | 70.0 | 76.4 | 75.5 | 66.5 | 54.3 | 43.5 | 28.6 | 52.2 |
| 1984 | 23.0 | 36.7 | 33.7 | 49.3 | 58.7 | 72.0 | 73.2 | 74.1 | 62.4 | 59.5 | 43.4 | 38.4 | 52.0 |
| 1985 | 24.9 | 32.2 | 42.3 | 54.2 | 63.6 | 67.3 | 73.3 | 71.9 | 66.2 | 54.2 | 46.1 | 29.4 | 52.1 |
| 1986 | 29.3 | 28.1 | 41.1 | 50.5 | 64.6 | 69.1 | 73.9 | 69.6 | 64.1 | 54.0 | 39.5 | 33.8 | 51.5 |
| 1987 | 27.8 | 29.2 | 42.6 | 50.8 | 61.6 | 71.4 | 75.9 | 70.5 | 64.3 | 49.1 | 43.4 | 34.9 | 51.8 |
| 1988 | 22.7 | 29.7 | 40.7 | 48.5 | 61.6 | 68.7 | 77.9 | 75.0 | 62.8 | 48.2 | 44.5 | 31.7 | 51.0 |
| 1989 | 33.4 | 30.4 | 39.0 | 48.5 | 59.3 | 70.2 | 72.7 | 71.5 | 65.5 | 55.0 | 42.1 | 21.2 | 50.7 |
| 1990 | 37.1 | 36.3 | 43.3 | 51.9 | 58.8 | 70.0 | 74.2 | 71.8 | 63.1 | 57.5 | 45.6 | 37.2 | 53.9 |
| 1991 | 29.5 | 35.9 | 42.3 | 52.6 | 67.2 | 71.6 | 74.7 | 74.1 | 64.7 | 54.7 | 43.8 | 35.7 | 53.9 |
| 1992 | 32.2 | 33.9 | 37.4 | 48.8 | 59.3 | 68.5 | 72.4 | 69.4 | 63.7 | 49.3 | 43.1 | 34.0 | 51.0 |
| 1993 | 33.3 | 26.9 | 35.6 | 50.6 | 63.0 | 70.5 | 76.9 | 74.4 | 64.1 | 51.7 | 43.1 | 33.1 | 51.9 |
| 1994 | 20.7 | 25.6 | 37.1 | 54.7 | 59.5 | 73.8 | 77.6 | 70.9 | 65.0 | 53.2 | 48.0 | 37.6 | 52.0 |
| 1995 | 34.3 | 28.3 | 44.1 | 49.4 | 59.9 | 70.5 | 76.4 | 75.0 | 64.5 | 56.8 | 36.9 | 26.8 | 51.9 |
| 1996 | 25.1 | 29.7 | 34.7 | 48.9 | 56.7 | 69.4 | 70.1 | 70.9 | 64.2 | 52.1 | 37.2 | 35.9 | 49.6 |
| 1997 | 27.1 | 35.6 | 38.9 | 47.7 | 55.7 | 68.0 | 72.3 | 69.2 | 62.0 | 52.4 | 39.3 | 33.6 | 50.2 |
| 1998 | 36.5 | 38.6 | 42.7 | 51.8 | 65.0 | 68.2 | 72.9 | 72.9 | 65.8 | 53.4 | 42.8 | 37.8 | 54.0 |
| 1999 | 30.3 | 33.4 | 38.0 | 49.2 | 59.5 | 70.0 | 78.0 | 72.2 | 65.3 | 50.7 | 46.3 | 34.9 | 52.3 |
| 2000 | 27.5 | 31.1 | 44.3 | 49.4 | 61.2 | 69.2 | 70.2 | 70.2 | 61.6 | 52.8 | 40.4 | 25.4 | 50.3 |
| 2001 | 27.1 | 31.4 | 36.5 | 50.6 | 60.6 | 69.5 | 68.9 | 73.7 | 62.3 | 53.6 | 47.0 | 38.2 | 51.6 |
| 2002 | 34.2 | 36.1 | 40.9 | 52.4 | 57.4 | 69.7 | 75.7 | 75.0 | 66.4 | 51.7 | 40.9 | 29.6 | 52.5 |
| 2003 | 23.6 | 25.8 | 39.9 | 48.7 | 57.3 | 67.3 | 74.2 | 75.0 | 65.6 | 51.5 | 46.7 | 33.0 | 50.7 |
| 2004 | 22.0 | 30.6 | 41.2 | 51.1 | 65.9 | 67.8 | 72.3 | 71.5 | 66.3 | 52.1 | 44.6 | 32.8 | 51.5 |
| 2005 | 26.8 | 31.7 | 34.9 | 52.6 | 56.3 | 72.7 | 75.6 | 75.6 | 68.7 | 55.8 | 44.8 | 29.6 | 52.1 |
| 2006 | 36.5 | 31.8 | 41.4 | 52.4 | 60.9 | 69.5 | 75.9 | 72.8 | 62.2 | 51.6 | 47.6 | 39.1 | 53.5 |
| 2007 | 33.2 | 24.0 | 39.0 | 47.6 | 62.5 | 70.4 | 72.5 | 73.0 | 67.0 | 60.8 | 40.8 | 33.0 | 52.0 |
| POR= 60 YRS | 28.0 | 30.3 | 39.0 | 50.1 | 60.3 | 69.5 | 74.0 | 72.2 | 64.5 | 53.5 | 42.9 | 32.2 | 51.4 |

HEATING DEGREE DAYS (base 65°F) 2007 ALLENTOWN (KABE)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1978-79 | 9 | 0 | 94 | 368 | 614 | 971 | 1142 | 1241 | 633 | 460 | 125 | 29 | 5686 |
| 1979-80 | 13 | 22 | 76 | 386 | 509 | 884 | 1058 | 1087 | 808 | 356 | 87 | 41 | 5327 |
| 1980-81 | 0 | 0 | 26 | 326 | 702 | 1092 | 1290 | 823 | 818 | 392 | 163 | 6 | 5638 |
| 1981-82 | 0 | 3 | 100 | 465 | 643 | 1058 | 1389 | 975 | 851 | 528 | 110 | 50 | 6172 |
| 1982-83 | 5 | 28 | 82 | 347 | 575 | 815 | 1071 | 920 | 708 | 477 | 222 | 23 | 5273 |
| 1983-84 | 0 | 1 | 96 | 336 | 639 | 1121 | 1295 | 813 | 963 | 464 | 211 | 12 | 5951 |
| 1984-85 | 0 | 1 | 135 | 180 | 642 | 820 | 1240 | 914 | 702 | 346 | 106 | 28 | 5114 |
| 1985-86 | 0 | 3 | 85 | 324 | 559 | 1093 | 1098 | 1025 | 735 | 427 | 115 | 20 | 5484 |
| 1986-87 | 0 | 35 | 92 | 361 | 759 | 960 | 1143 | 997 | 688 | 423 | 178 | 5 | 5641 |
| 1987-88 | 0 | 16 | 73 | 487 | 637 | 926 | 1306 | 1016 | 747 | 486 | 145 | 52 | 5891 |
| 1988-89 | 5 | 6 | 97 | 515 | 607 | 1026 | 974 | 963 | 798 | 489 | 204 | 12 | 5696 |
| 1989-90 | 4 | 7 | 92 | 309 | 680 | 1350 | 858 | 800 | 670 | 416 | 188 | 17 | 5391 |
| 1990-91 | 7 | 12 | 129 | 269 | 574 | 853 | 1092 | 806 | 696 | 374 | 92 | 10 | 4914 |
| 1991-92 | 0 | 0 | 113 | 326 | 631 | 902 | 1007 | 895 | 845 | 478 | 197 | 23 | 5417 |
| 1992-93 | 4 | 9 | 110 | 482 | 649 | 955 | 974 | 1060 | 904 | 424 | 103 | 27 | 5701 |
| 1993-94 | 0 | 3 | 121 | 407 | 652 | 985 | 1369 | 1099 | 856 | 315 | 202 | 6 | 6015 |
| 1994-95 | 0 | 2 | 60 | 362 | 506 | 840 | 942 | 1020 | 639 | 461 | 170 | 2 | 5004 |
| 1995-96 | 0 | 0 | 91 | 264 | 838 | 1181 | 1225 | 1016 | 932 | 477 | 283 | 16 | 6323 |
| 1996-97 | 2 | 2 | 104 | 394 | 826 | 897 | 1169 | 816 | 803 | 513 | 282 | 54 | 5862 |
| 1997-98 | 5 | 9 | 116 | 395 | 766 | 966 | 875 | 731 | 693 | 387 | 82 | 48 | 5073 |
| 1998-99 | 0 | 6 | 68 | 353 | 660 | 836 | 1067 | 879 | 829 | 468 | 180 | 15 | 5361 |
| 1999-00 | 1 | 8 | 74 | 434 | 554 | 924 | 1155 | 973 | 636 | 462 | 167 | 33 | 5421 |
| 2000-01 | 3 | 16 | 176 | 372 | 729 | 1224 | 1168 | 934 | 878 | 434 | 164 | 28 | 6126 |
| 2001-02 | 15 | 0 | 119 | 354 | 533 | 822 | 946 | 801 | 739 | 410 | 261 | 15 | 5015 |
| 2002-03 | 0 | 4 | 48 | 425 | 717 | 1091 | 1278 | 1091 | 774 | 485 | 234 | 56 | 6203 |
| 2003-04 | 0 | 0 | 40 | 413 | 543 | 984 | 1328 | 992 | 731 | 411 | 88 | 32 | 5562 |
| 2004-05 | 0 | 10 | 27 | 391 | 604 | 988 | 1180 | 930 | 928 | 369 | 268 | 9 | 5704 |
| 2005-06 | 0 | 0 | 24 | 302 | 599 | 1092 | 878 | 922 | 724 | 374 | 167 | 18 | 5100 |
| 2006-07 | 0 | 0 | 105 | 411 | 515 | 796 | 978 | 1143 | 798 | 519 | 143 | 15 | 5423 |
| 2007- | 11 | 15 | 53 | 192 | 718 | 986 | | | | | | | |

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COOLING DEGREE DAYS (base 65°F) 2007 ALLENTOWN (KABE)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1978 | 0 | 0 | 0 | 0 | 65 | 196 | 247 | 264 | 76 | 0 | 0 | 0 | 848 |
| 1979 | 0 | 0 | 0 | 1 | 42 | 126 | 274 | 268 | 92 | 7 | 1 | 0 | 811 |
| 1980 | 0 | 0 | 0 | 0 | 59 | 147 | 388 | 413 | 194 | 6 | 0 | 0 | 1207 |
| 1981 | 0 | 0 | 0 | 0 | 50 | 210 | 307 | 183 | 61 | 0 | 0 | 0 | 811 |
| 1982 | 0 | 0 | 0 | 1 | 37 | 76 | 274 | 137 | 63 | 13 | 0 | 0 | 601 |
| 1983 | 0 | 0 | 0 | 11 | 21 | 179 | 361 | 337 | 148 | 13 | 0 | 0 | 1070 |
| 1984 | 0 | 0 | 0 | 0 | 25 | 226 | 260 | 291 | 65 | 18 | 0 | 0 | 885 |
| 1985 | 0 | 0 | 2 | 27 | 66 | 100 | 262 | 222 | 125 | 1 | 0 | 0 | 805 |
| 1986 | 0 | 0 | 0 | 0 | 111 | 152 | 282 | 187 | 72 | 23 | 0 | 0 | 827 |
| 1987 | 0 | 0 | 0 | 3 | 78 | 204 | 344 | 194 | 58 | 0 | 0 | 0 | 881 |
| 1988 | 0 | 0 | 0 | 0 | 48 | 172 | 412 | 324 | 36 | 3 | 0 | 0 | 995 |
| 1989 | 0 | 0 | 0 | 0 | 37 | 173 | 248 | 218 | 116 | 6 | 1 | 0 | 799 |
| 1990 | 0 | 0 | 5 | 31 | 6 | 171 | 299 | 228 | 78 | 42 | 0 | 0 | 860 |
| 1991 | 0 | 0 | 0 | 9 | 167 | 215 | 306 | 290 | 110 | 15 | 0 | 0 | 1112 |
| 1992 | 0 | 0 | 0 | 0 | 27 | 135 | 241 | 151 | 79 | 0 | 0 | 0 | 633 |
| 1993 | 0 | 0 | 0 | 1 | 49 | 198 | 375 | 302 | 103 | 0 | 0 | 0 | 1028 |
| 1994 | 0 | 0 | 0 | 13 | 40 | 275 | 400 | 192 | 67 | 1 | 1 | 0 | 989 |
| 1995 | 0 | 0 | 0 | 0 | 18 | 173 | 359 | 319 | 85 | 16 | 0 | 0 | 970 |
| 1996 | 0 | 0 | 0 | 2 | 32 | 153 | 177 | 192 | 87 | 0 | 0 | 0 | 643 |
| 1997 | 0 | 0 | 0 | 0 | 3 | 148 | 239 | 146 | 35 | 10 | 0 | 0 | 581 |
| 1998 | 0 | 0 | 10 | 1 | 87 | 149 | 247 | 257 | 100 | 0 | 0 | 0 | 851 |
| 1999 | 0 | 0 | 0 | 0 | 16 | 170 | 414 | 236 | 92 | 0 | 0 | 0 | 928 |
| 2000 | 0 | 0 | 0 | 2 | 55 | 165 | 169 | 187 | 81 | 0 | 0 | 0 | 659 |
| 2001 | 0 | 0 | 0 | 10 | 34 | 172 | 142 | 275 | 44 | 3 | 0 | 0 | 680 |
| 2002 | 0 | 0 | 0 | 39 | 33 | 163 | 338 | 322 | 95 | 18 | 0 | 0 | 1008 |
| 2003 | 0 | 0 | 0 | 2 | 2 | 132 | 292 | 315 | 64 | 0 | 1 | 0 | 808 |
| 2004 | 0 | 0 | 0 | 1 | 124 | 125 | 237 | 219 | 72 | 0 | 0 | 0 | 778 |
| 2005 | 0 | 0 | 0 | 6 | 7 | 249 | 337 | 334 | 144 | 21 | 0 | 0 | 1098 |
| 2006 | 0 | 0 | 0 | 2 | 46 | 159 | 345 | 247 | 30 | 1 | 0 | 0 | 830 |
| 2007 | 0 | 0 | 0 | 0 | 70 | 183 | 251 | 269 | 120 | 65 | 0 | 0 | 958 |

SNOWFALL (inches) 2007 ALLENTOWN (KABE)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-------|
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.9 | 9.1 | 21.0 | T | T | 0.0 | 0.0 | 33.9 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 1.0 | T | 4.5 | 1.0 | 5.9 | 9.5 | T | 0.0 | 0.0 | 21.9 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 3.6 | 9.5 | 1.3 | 6.9 | 0.0 | 0.0 | 0.0 | 25.5 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | T | 8.9 | 12.4 | 5.2 | 4.0 | 13.4 | 0.0 | 0.0 | 43.9 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.3 | 8.8 | 29.5 | 0.6 | 4.6 | 0.0 | 0.0 | 45.8 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.0 | 12.8 | 0.6 | 15.9 | T | 0.0 | 0.0 | 34.3 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.7 | 6.7 | 11.5 | 0.3 | T | 0.0 | 0.0 | 24.2 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.7 | 5.7 | 16.5 | T | 1.1 | 0.0 | 0.0 | 26.0 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 2.4 | 21.9 | 9.6 | 1.1 | T | 0.0 | 0.0 | 35.5 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 2.2 | 21.0 | 11.6 | 1.7 | T | 0.0 | 0.0 | 40.2 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 3.9 | 2.8 | 5.4 | 0.0 | 0.0 | 0.0 | 12.2 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 7.3 | 8.8 | 2.0 | 0.9 | 0.1 | 0.0 | 0.0 | 22.1 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | T | 8.8 | 5.0 | 0.9 | 2.1 | T | 0.0 | 0.0 | 16.8 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.8 | 2.8 | 2.2 | 9.8 | T | 0.0 | 0.0 | 15.6 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.9 | 1.6 | 13.4 | 21.6 | 0.0 | 0.0 | 0.0 | 37.5 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.9 | 33.9 | 24.7 | 14.7 | 0.0 | T | 0.0 | 75.2 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.4 | 0.5 | 10.1 | 2.0 | 0.0 | 0.0 | 0.0 | 13.7 |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 15.7 | 35.5 | 10.2 | 6.1 | 0.2 | 0.0 | 0.0 | 71.8 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.1 | 5.5 | 4.5 | 9.6 | 2.8 | 0.0 | 0.0 | 23.5 |
| 1997-98 | 0.0 | 0.0 | 0.0 | 0.0 | T | 3.5 | 3.7 | T | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.1 | 1.2 | T | 0.0 | 0.0 | 0.0 | 3.6 |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 18.1 | 5.5 | T | 0.0 | 0.0 | 0.0 | 23.6 |
| 2000-01 | 0.0 | 0.0 | 0.0 | 0.0 | T | 10.8 | 10.8 | 20.1 | 5.5 | T | 0.0 | 0.0 | 47.2 |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 0.7 | T | T | 0.0 | 0.0 | 9.7 |
| 2002-03 | 0.0 | 0.0 | 0.0 | T | 1.2 | 15.2 | 4.7 | 27.5 | 1.8 | 4.0 | 0.0 | 0.0 | 54.4 |
| 2003-04 | 0.0 | 0.0 | 0.0 | T | T | 12.0 | 16.2 | 2.6 | 8.5 | T | 0.0 | 0.0 | 39.3 |
| 2004-05 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.6 | 16.2 | 17.2 | 7.3 | 0.0 | 0.0 | 0.0 | 42.3 |
| 2005-06 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 14.0 | 1.0 | 16.1 | T | 0.8 | 0.0 | 0.0 | 32.5 |
| 2006-07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.1 | 11.2 | 9.7 | T | 0.0 | 0.0 | 23.0 |
| 2007- | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.9 | | | | | | | |
| POR= 60 YRS | 0.0 | 0.0 | 0.0 | T | 1.2 | 5.9 | 9.1 | 9.3 | 5.7 | 0.7 | T | 0.0 | 31.9 |

WBAN : 14737

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> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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2007 ALLENTOWN PENNSYLVANIA (KABE)

Allentown is located in the east central section of the state and in the Lehigh River valley. Twelve miles to the north is Blue Mountain, a ridge from 1,000 to 1,800 feet in height. The South Mountain, 500 to 1,000 feet high, fringes the southern edge of the city. Otherwise the country is generally rolling with numerous small streams. A modified climate prevails. Temperatures are usually moderate and precipitation generally ample and dependable with the largest amounts occurring during the summer months when precipitation is generally showery. General climatological features of the area are slightly modified by the mountain ranges so that at times during the winter there is a temperature difference of 10 to 15 degrees between Allentown and Philadelphia, only 50 miles to the south.

The growing season averages 177 days, and generally ranges from 170 to 185 days. It begins late in April and ends late in October. The average occurrence of the last temperature of 32 degrees in the spring is late April, and the average first fall minimum of 32 degrees is mid-October.

Maximum temperatures during most years are not excessively high and temperatures above 100 degrees are seldom recorded. However, the average humidity in the valley is quite high, and combined with the normal summer temperatures, causes periods of discomfort.

Winters in the valley are comparatively mild. Minimum temperatures during December, January, and February are usually below freezing, but below zero temperatures are seldom recorded.

Seasonal snowfall is quite variable. Freezing rain is a common problem throughout the Lehigh Valley. Snowstorms producing 10 inches or more occur an average of once in two years. The accumulation of snowfall over the drainage area of the Lehigh River to the north of Allentown, combined with spring rains, frequently presents a flood threat to the city and surrounding area. The valley is also subject to torrential rains that cause quick rises in the river and feeder creeks.

The area is seldom subject to destructive storms of large extent. Heavy thunderstorms and tornadoes occasionally cause damage over limited areas. An exception to the usual weather was the storm that battered the east coast on November 25, 1950, when gusts of 88 mph were observed at the station.

Station Location

ALLENTOWN

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude | | Longitude | | ELEVATION ABOVE | | | | | | | | REMARKS |
|--|---------------|-------------|---|----------|---------|-------------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|---------------------------------|---|---------|
| | | | | NORTH | WEST | SEA LEVEL | GROUND | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | | |
| | | | | | | | GROUND TEMPERATURE SITE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE | | 8 INCH RAIN GAUGE | |
| *NOTE: | | | | | | | | | | | | | | | | |
| AIRPORT | | | | | | | | | | | | | | | | |
| Old Administration Bldg Allentown-Bethlehem-Easton Airport 4.5 miles NNE of P.O. | 4/6/38 | 10/13/50 | NA | 40° 39' | 75° 26' | 381 | 57 | 5 | 4 | | | a5 | 3 | | CAA station to 12/13/43, then Weather Bureau. a. Added 12/13/43. | |
| New Admin. Bldg + Allentown-Bethlehem-Easton Airport + Government Building (Effective 1/76) | 10/13/50 | 11/01/95 | 1300 ft. SSW | 40° 39' | 75° 26' | 376 c387 | 69 b20 | 6 | 5 | f50 | e5 | 4 d5 | 3 d3 | b4 | b. Located 1650' WSW of previous sensor site 12/1/65. c. Effective 12/1/65. d. Minor relocation 5/8/73. e. Installed 5/3/77. f. Installed on roof 6/1/83. | |
| Lehigh Valley Int'l Airport | 11/01/95 | Present | NA | 40° 39' | 75° 27' | g375 | | | | | | | | S | ASOS Commissioned 11/01/95 g. ground elevation | |

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* NOTES: For earlier station history see previous edition.