

1997

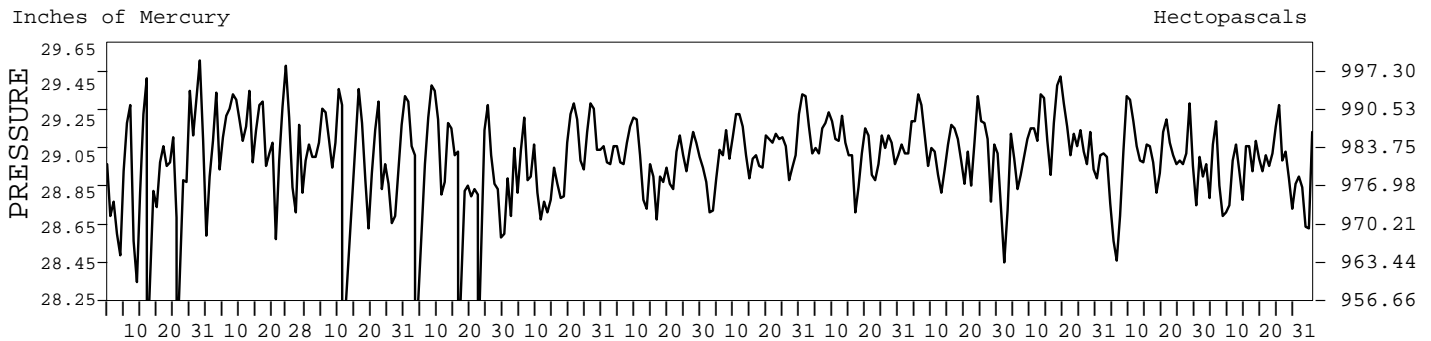
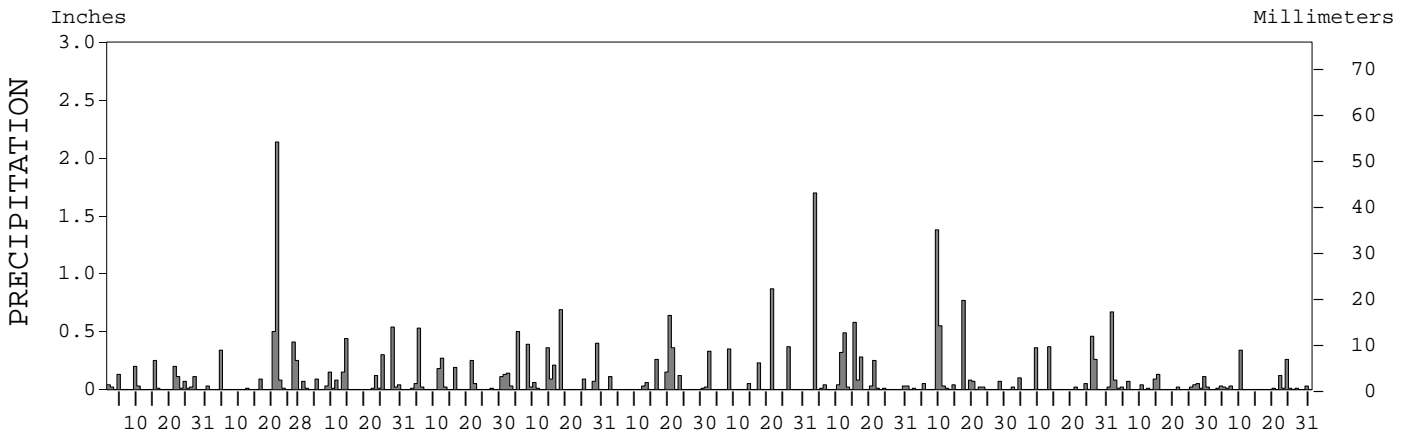
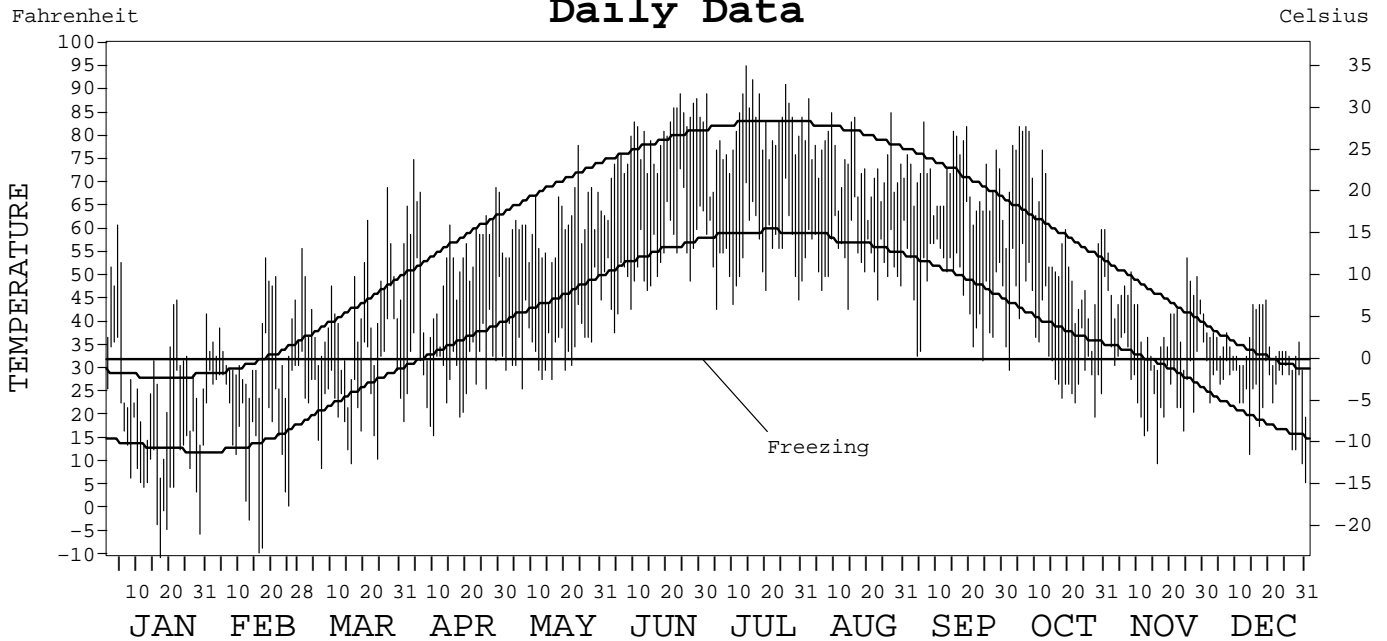
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2621

LANSING, MICHIGAN (LAN)

Daily Data



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NATIONAL
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NATIONAL
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Jenneth A. Schickel
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

LANSING, MI (LAN)

LATITUDE: 42° 46' 49" N LONGITUDE: 84° 34' 44" W ELEVATION (FT): GRND: 841 BARO: 871 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14836

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|-----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 29.5 | 34.5 | 42.4 | 54.6 | 60.4 | 78.6 | 81.5 | 74.4 | 70.9 | 59.6 | 41.7 | 35.2 | 55.3 | |
| | HIGHEST DAILY MAXIMUM | 61 | 54 | 69 | 75 | 78 | 89 | 95 | 88 | 83 | 82 | 55 | 45 | 95 | |
| | DATE OF OCCURRENCE | 04 | 18 | 27 | 04 | 24 | 24 | 14 | 02 | 06 | 07+ | 01 | 19 | JUL 14 | |
| | MEAN DAILY MINIMUM | 12.7 | 18.1 | 25.6 | 30.7 | 36.1 | 53.9 | 55.9 | 54.5 | 48.3 | 35.8 | 27.9 | 24.8 | 35.4 | |
| | LOWEST DAILY MINIMUM | -10 | -9 | 9 | 16 | 26 | 38 | 43 | 43 | 32 | 20 | 10 | 6 | -10 | |
| | DATE OF OCCURRENCE | 17 | 16 | 07 | 10 | 07 | 04 | 05 | 14 | 24 | 28 | 16 | 31 | JAN 17 | |
| | AVERAGE DRY BULB | 21.1 | 26.3 | 34.0 | 42.7 | 48.3 | 66.3 | 68.7 | 64.5 | 59.6 | 47.7 | 34.8 | 30.0 | 45.3 | |
| | MEAN WET BULB | | 26.2 | 31.4 | | 44.2 | 60.9 | 63.1 | 60.5 | 55.9 | 44.8 | 33.7 | 28.7 | | |
| | MEAN DEW POINT | | 21.8 | 26.3 | | 38.0 | 56.4 | 58.8 | 57.4 | 52.4 | 40.4 | 30.5 | 25.4 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | MAXIMUM ≤ 32° | 21 | 14 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 6 | 52 |
| | MINIMUM ≤ 32° | 28 | 27 | 23 | 17 | 10 | 0 | 0 | 0 | 1 | 15 | 21 | 31 | 31 | 173 |
| MINIMUM ≤ 0° | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| H/C | HEATING DEGREE DAYS | 1352 | 1075 | 953 | 661 | 513 | 57 | 23 | 70 | 175 | 538 | 898 | 1079 | 7394 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 0 | 102 | 145 | 60 | 18 | 9 | 0 | 0 | 334 | |
| RH | MEAN (PERCENT) | 82 | 78 | 74 | 62 | 68 | 71 | 71 | 79 | 79 | 75 | 82 | 81 | 75 | |
| | HOUR 01 LST | 83 | 82 | 79 | 74 | 79 | 83 | 85 | 92 | 90 | 85 | 85 | 85 | 84 | |
| | HOUR 07 LST | 85 | 82 | 83 | 78 | 80 | 81 | 85 | 90 | 91 | 87 | 88 | 86 | 85 | |
| | HOUR 13 LST | 77 | 72 | 66 | 49 | 56 | 55 | 56 | 65 | 62 | 60 | 74 | 74 | 64 | |
| | HOUR 19 LST | 82 | 75 | 68 | 50 | 59 | 60 | 57 | 72 | 76 | 74 | 80 | 81 | 70 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 5 | 1 | 2 | 1 | 1 | 1 | 0 | 5 | 1 | 0 | 3 | 3 | 23 | |
| | THUNDERSTORMS | 0 | 0 | 1 | 1 | 3 | 5 | 6 | 4 | 2 | 0 | 0 | 0 | 22 | |
| 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.) | | 29.17 | 29.09 | | 29.01 | 29.03 | 29.09 | 29.10 | 29.07 | 29.13 | 29.03 | 28.98 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | | 30.14 | 30.05 | | 29.95 | | 30.02 | 30.03 | 30.00 | | 29.98 | 29.94 | | |
| WINDS | RESULTANT SPEED (MPH) | | 4.8 | | | 4.0 | 2.7 | 2.1 | 1.2 | 3.2 | 3.2 | 3.0 | 3.2 | | |
| | RES. DIR. (TENS OF DEGS.) | | 25 | | | 29 | 22 | 29 | 30 | 28 | 23 | 26 | 27 | | |
| | MEAN SPEED (MPH) | 12.1 | 10.3 | 9.9 | | 10.6 | 7.5 | 7.3 | 6.8 | 7.4 | 8.1 | 9.3 | 8.8 | | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 23 | 23 | 36 | 27 | 28 | 21 | 28 | 01 | 29 | 22 | 23 | 27 | 28 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 36 | 37 | 29 | 44 | 31 | 30 | 33 | 26 | 38 | 29 | 26 | 24 | 44 | |
| | DIR. (TENS OF DEGS.) | 25 | 23 | 26 | 26 | 22 | 23 | 01 | 25 | 28 | 30 | 30 | 27 | 26 | |
| | DATE OF OCCURRENCE | 05 | 27 | 21+ | 06 | 01 | 21+ | 26 | 15 | 29 | 21+ | 26 | 12 | APR 06 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 41 | 44 | 36 | 53 | 44 | 37 | 43 | 33 | 48 | 37 | 36 | 29 | 53 | |
| DIR. (TENS OF DEGS.) | 24 | 23 | 27 | 25 | 28 | 25 | 01 | 25 | 27 | 20 | 31 | 23 | 25 | | |
| DATE OF OCCURRENCE | 05 | 27 | 21 | 06 | 04 | 20+ | 26 | 15 | 29 | 13 | 26 | 15+ | APR 06 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 1.24 | 3.83 | 2.07 | 1.69 | 3.19 | 1.74 | 2.22 | 3.92 | 3.10 | 1.66 | 1.39 | 0.89 | 26.94 | |
| | GREATEST 24-HOUR (IN.) | 0.31 | 2.24 | 0.56 | 0.53 | 0.69 | 0.75 | 0.87 | 1.70 | 1.84 | 0.72 | 0.71 | 0.34 | 2.24 | |
| | DATE OF OCCURRENCE | 21-22 | 20-21 | 28-29 | 05 | 18 | 19-20 | 21 | 03 | 09-10 | 26-27 | 01-02 | 10-11 | FEB 20-21 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 15 | 9 | 16 | 12 | 15 | 9 | 7 | 16 | 13 | 9 | 16 | 13 | 150 | |
| PRECIPITATION ≥ 0.10 | 6 | 5 | 6 | 6 | 8 | 6 | 5 | 6 | 3 | 5 | 3 | 3 | 62 | | |
| PRECIPITATION ≥ 1.00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | | | | | | | | | | | | | | |
| | GREATEST 24-HOUR (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | | | | | | | | | | | | | | | |

NORMALS, MEANS, AND EXTREMES

LANSING, MI (LAN)

LATITUDE: 42° 46' 49" N LONGITUDE: 84° 34' 44" W ELEVATION (FT): GRND: 841 BARO: 871 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14836

| | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|----------------------|--|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 28.5 | 31.6 | 42.7 | 56.7 | 69.1 | 78.2 | 82.6 | 80.4 | 71.9 | 59.4 | 45.8 | 33.5 | 56.7 |
| | MEAN DAILY MAXIMUM | 45 | 29.5 | 32.0 | 42.2 | 56.3 | 68.8 | 78.5 | 82.5 | 80.4 | 72.4 | 60.5 | 45.7 | 34.0 | 56.9 |
| | HIGHEST DAILY MAXIMUM | 39 | 66 | 64 | 78 | 86 | 94 | 99 | 100 | 100 | 97 | 89 | 77 | 66 | 100 |
| | YEAR OF OCCURRENCE | | 1967 | 1984 | 1989 | 1980 | 1977 | 1988 | 1988 | 1988 | 1973 | 1963 | 1975 | 1982 | AUG 1988 |
| | MEAN OF EXTREME MAXS. | 45 | 48.9 | 50.2 | 67.4 | 78.5 | 85.0 | 91.0 | 93.1 | 91.9 | 87.4 | 79.2 | 66.5 | 54.0 | 74.4 |
| | NORMAL DAILY MINIMUM | 30 | 13.3 | 14.2 | 24.5 | 35.1 | 44.9 | 54.5 | 59.0 | 56.9 | 49.9 | 39.2 | 30.8 | 19.3 | 36.8 |
| | MEAN DAILY MINIMUM | 45 | 14.4 | 15.3 | 23.9 | 35.0 | 44.9 | 55.0 | 58.8 | 57.2 | 49.7 | 39.4 | 30.3 | 20.3 | 37.0 |
| | LOWEST DAILY MINIMUM | 39 | -29 | -25 | -15 | -2 | 19 | 30 | 37 | 35 | 22 | 15 | 4 | -17 | -29 |
| | YEAR OF OCCURRENCE | | 1981 | 1994 | 1978 | 1982 | 1966 | 1966 | 1972 | 1976 | 1991 | 1966 | 1976 | 1976 | JAN 1981 |
| | MEAN OF EXTREME MINS. | 45 | -8.4 | -7.1 | 3.4 | 18.8 | 29.4 | 39.3 | 44.8 | 42.7 | 32.8 | 23.4 | 14.0 | -2.1 | 19.2 |
| | NORMAL DRY BULB | 30 | 20.9 | 22.9 | 33.6 | 45.9 | 57.0 | 66.4 | 70.8 | 68.7 | 60.9 | 49.3 | 38.3 | 26.4 | 46.8 |
| | MEAN DRY BULB | 45 | 21.9 | 23.7 | 33.1 | 45.6 | 56.9 | 66.7 | 70.7 | 68.8 | 61.0 | 49.9 | 38.0 | 27.1 | 46.9 |
| | MEAN WET BULB | 13 | 21.8 | 22.9 | 30.7 | 41.5 | 51.1 | 60.4 | 60.1 | 63.5 | 52.0 | 45.5 | 32.6 | 24.3 | 42.2 |
| | MEAN DEW POINT | 13 | 17.7 | 18.2 | 25.2 | 35.3 | 45.3 | 55.5 | 56.5 | 60.3 | 48.8 | 41.0 | 28.8 | 20.9 | 37.8 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.3 | 4.5 | 2.5 | 0.7 | 0.0 | 0.0 | 0.0 | 10.4 | |
| MAXIMUM ≤ 32° | 30 | 19.4 | 14.8 | 5.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 14.3 | 56.8 | |
| MINIMUM ≤ 32° | 30 | 29.5 | 26.3 | 24.4 | 12.8 | 2.6 | 0.1 | 0.0 | 0.0 | 0.7 | 7.8 | 18.3 | 27.4 | 149.9 | |
| MINIMUM ≤ 0° | 30 | 6.2 | 4.6 | 0.9 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 14.2 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1367 | 1179 | 973 | 573 | 283 | 60 | 8 | 26 | 147 | 487 | 801 | 1197 | 7101 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 35 | 102 | 188 | 141 | 24 | 0 | 0 | 0 | 490 |
| RH | NORMAL (PERCENT) | 30 | 79 | 76 | 73 | 68 | 67 | 69 | 71 | 75 | 78 | 76 | 79 | 81 | 74 |
| | HOUR 01 LST | 30 | 82 | 80 | 79 | 76 | 77 | 80 | 84 | 88 | 88 | 84 | 83 | 83 | 82 |
| | HOUR 07 LST | 30 | 83 | 82 | 82 | 80 | 79 | 81 | 85 | 90 | 91 | 87 | 85 | 84 | 84 |
| | HOUR 13 LST | 30 | 74 | 69 | 64 | 57 | 54 | 56 | 56 | 58 | 62 | 62 | 70 | 76 | 63 |
| | HOUR 19 LST | 30 | 77 | 74 | 68 | 59 | 57 | 58 | 59 | 64 | 73 | 74 | 78 | 81 | 68 |
| S | PERCENT POSSIBLE SUNSHINE | 42 | 36 | 44 | 49 | 52 | 61 | 65 | 69 | 64 | 59 | 50 | 31 | 29 | 51 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY≤1/4 MI) THUNDERSTORMS | 43 43 | 2.0 0.3 | 1.8 0.2 | 2.2 1.4 | 1.0 3.2 | 1.0 3.7 | 1.3 6.3 | 1.1 6.2 | 2.1 5.7 | 1.9 4.0 | 2.1 1.2 | 1.7 1.0 | 2.3 0.4 | 20.5 33.6 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 42 | 6.3 | 5.9 | 5.8 | 5.5 | 5.1 | 4.8 | 4.5 | 4.5 | 4.8 | 5.1 | 6.2 | 6.4 | 5.4 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 6.2 | 5.7 | 5.3 | 5.2 | 4.8 | 4.4 | 4.2 | 4.1 | 4.4 | 4.8 | 6.0 | 6.2 | 5.1 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 42 | 3.2 | 4.2 | 5.2 | 5.9 | 7.0 | 7.2 | 8.0 | 8.4 | 7.9 | 7.1 | 3.6 | 2.8 | 70.5 |
| PARTLY CLOUDY | 42 | 6.6 | 6.9 | 7.8 | 7.1 | 9.8 | 11.3 | 13.2 | 11.8 | 9.5 | 8.6 | 5.7 | 5.6 | 103.9 | |
| CLOUDY | 42 | 21.2 | 17.2 | 18.0 | 17.0 | 14.2 | 11.5 | 9.8 | 10.8 | 12.7 | 15.3 | 20.7 | 22.6 | 191.0 | |
| PR | MEAN STATION PRESSURE(IN) | 24 | 29.10 | 29.10 | 29.10 | 29.00 | 29.00 | 29.00 | 29.10 | 29.10 | 27.98 | 29.10 | 29.10 | 29.10 | 28.98 |
| | MEAN SEA-LEVEL PRES. (IN) | 13 | 30.06 | 30.08 | 30.06 | 29.96 | 30.00 | 29.96 | 30.00 | 27.89 | 27.93 | 30.06 | 30.05 | 27.93 | 29.50 |
| WINDS | MEAN SPEED (MPH) | 32 | 12.3 | 11.8 | 12.2 | 12.0 | 10.4 | 9.1 | 8.5 | 7.8 | 8.8 | 9.7 | 11.4 | 11.6 | 10.5 |
| | PREVAIL.DIR.(TENS OF DEGS) | 23 | 23 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 22 | 22 | 23 | 27 | 27 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 1 | 36 | 37 | 29 | 44 | 31 | 30 | 33 | 26 | 38 | 29 | 26 | 24 | 44 |
| | DIR. (TENS OF DEGS) | | 25 | 23 | 26 | 26 | 22 | 23 | 10 | 25 | 28 | 30 | 30 | 27 | 26 |
| | YEAR OF OCCURRENCE | | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | APR 1997 |
| | PEAK GUST: | | | | | | | | | | | | | | |
| SPEED (MPH) | 1 | 41 | 44 | 36 | 53 | 44 | 37 | 43 | 33 | 48 | 37 | 36 | 29 | 53 | |
| DIR. (TENS OF DEGS) | | 24 | 23 | 27 | 25 | 28 | 25 | 10 | 25 | 27 | 20 | 31 | 23 | 25 | |
| YEAR OF OCCURRENCE | | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | APR 1997 | |
| PRECIPITATION | NORMAL (IN) | 30 | 1.49 | 1.36 | 2.30 | 2.81 | 2.61 | 3.71 | 2.52 | 3.20 | 3.56 | 2.10 | 2.63 | 2.33 | 30.62 |
| | MAXIMUM MONTHLY (IN) | 46 | 3.61 | 4.21 | 4.36 | 5.16 | 6.57 | 10.21 | 6.43 | 9.81 | 8.34 | 5.58 | 5.40 | 4.70 | 10.21 |
| | YEAR OF OCCURRENCE | | 1950 | 1954 | 1974 | 1981 | 1989 | 1986 | 1992 | 1975 | 1986 | 1990 | 1990 | 1949 | JUN 1986 |
| | MINIMUM MONTHLY (IN) | 46 | 0.39 | 0.22 | 0.92 | 1.07 | 0.62 | 0.20 | 0.50 | 0.17 | T | 0.28 | 0.51 | 0.37 | T |
| | YEAR OF OCCURRENCE | | 1981 | 1969 | 1960 | 1982 | 1977 | 1988 | 1965 | 1969 | 1979 | 1956 | 1962 | 1960 | SEP 1979 |
| | MAXIMUM IN 24 HOURS (IN) | 45 | 1.59 | 2.40 | 1.59 | 2.73 | 3.28 | 5.01 | 2.16 | 3.75 | 3.43 | 3.46 | 2.47 | 1.62 | 5.01 |
| | YEAR OF OCCURRENCE | | 1949 | 1954 | 1954 | 1993 | 1989 | 1986 | 1972 | 1975 | 1981 | 1981 | 1990 | 1970 | JUN 1986 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 14.5 | 11.5 | 13.3 | 12.2 | 10.3 | 10.5 | 9.7 | 9.3 | 10.5 | 9.8 | 12.2 | 14.8 | 138.6 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.1 | 0.1 | 0.2 | 0.4 | 0.5 | 0.9 | 0.5 | 0.7 | 0.9 | 0.3 | 0.3 | 0.2 | 5.1 | |
| SNOWFALL | NORMAL (IN) | 30 | 13.2 | 10.3 | 8.6 | 3.2 | T | 0.0 | 0.0 | 0.0 | T | 0.5 | 4.8 | 12.6 | 53.2 |
| | MAXIMUM MONTHLY (IN) | 42 | 34.0 | 23.7 | 19.8 | 17.0 | 0.3 | T | 0.0 | 0.0 | T | 7.5 | 16.8 | 27.8 | 34.0 |
| | YEAR OF OCCURRENCE | | 1978 | 1986 | 1971 | 1970 | 1994 | 1992 | | | 1994 | 1967 | 1966 | 1951 | JAN 1978 |
| | MAXIMUM IN 24 HOURS (IN) | 42 | 20.4 | 9.0 | 15.5 | 17.0 | 0.3 | T | 0.0 | 0.0 | T | 7.5 | 11.0 | 15.1 | 20.4 |
| | YEAR OF OCCURRENCE | | 1967 | 1965 | 1973 | 1970 | 1994 | 1992 | | | 1994 | 1967 | 1951 | 1970 | JAN 1967 |
| | MAXIMUM SNOW DEPTH (IN) | 43 | 24 | 23 | 17 | 13 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 20 | 24 |
| | YEAR OF OCCURRENCE | | 1978 | 1978 | 1973 | 1975 | | | | | | 1967 | 1951 | 1951 | JAN 1978 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 4.0 | 3.2 | 2.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.6 | 4.1 | 16.5 | |

PRECIPITATION (inches) 1997 LANSING, MI (LAN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|-------|------|------|------|------|------|------|--------|
| 1968 | 1.46 | 1.56 | 1.49 | 2.96 | 4.16 | 7.94 | 3.03 | 2.98 | 2.73 | 1.56 | 3.26 | 2.62 | 35.75 |
| 1969 | 1.91 | 0.22 | 1.06 | 4.02 | 4.47 | 4.03 | 4.89 | 0.17 | 1.67 | 2.74 | 2.32 | 0.53 | 28.03 |
| 1970 | 0.91 | 0.66 | 2.20 | 3.13 | 2.89 | 3.02 | 3.37 | 2.36 | 4.61 | 3.77 | 2.85 | 2.48 | 32.25 |
| 1971 | 0.68 | 2.40 | 2.33 | 1.50 | 1.93 | 5.13 | 4.82 | 2.50 | 5.25 | 2.29 | 1.61 | 4.24 | 34.68 |
| 1972 | 1.51 | 1.19 | 2.82 | 4.56 | 2.86 | 3.28 | 3.27 | 5.06 | 2.65 | 3.30 | 2.72 | 4.16 | 37.38 |
| 1973 | 1.17 | 1.44 | 3.59 | 2.22 | 3.78 | 3.62 | 2.04 | 1.77 | 2.81 | 2.07 | 4.22 | 3.09 | 31.82 |
| 1974 | 3.00 | 2.58 | 4.36 | 2.07 | 4.07 | 2.81 | 1.21 | 2.67 | 2.60 | 1.44 | 2.50 | 2.39 | 31.70 |
| 1975 | 2.77 | 2.08 | 2.43 | 4.76 | 2.96 | 2.93 | 2.47 | 9.81 | 1.65 | 0.95 | 3.43 | 3.32 | 39.56 |
| 1976 | 1.59 | 2.54 | 3.85 | 3.55 | 2.52 | 4.50 | 2.56 | 0.58 | 1.66 | 2.32 | 1.02 | 0.96 | 27.65 |
| 1977 | 0.95 | 0.66 | 2.65 | 2.53 | 0.62 | 3.50 | 2.00 | 1.60 | 4.46 | 1.20 | 2.17 | 2.30 | 24.64 |
| 1978 | 2.60 | 0.46 | 1.91 | 1.55 | 2.06 | 2.73 | 1.23 | 3.69 | 3.80 | 1.98 | 2.58 | 2.85 | 27.44 |
| 1979 | 2.13 | 0.56 | 1.78 | 2.69 | 1.35 | 5.53 | 1.86 | 2.30 | T | 1.99 | 3.25 | 2.30 | 25.74 |
| 1980 | 0.70 | 0.99 | 1.94 | 2.41 | 1.84 | 3.20 | 3.56 | 4.76 | 3.22 | 2.02 | 0.90 | 3.06 | 28.60 |
| 1981 | 0.39 | 1.39 | 1.10 | 5.16 | 4.69 | 3.22 | 1.71 | 1.98 | 8.01 | 1.28 | 1.50 | 1.10 | 31.53 |
| 1982 | 1.55 | 0.55 | 2.98 | 1.07 | 2.52 | 3.00 | 3.00 | 1.99 | 3.51 | 0.43 | 4.21 | 3.54 | 28.35 |
| 1983 | 1.00 | 0.81 | 3.25 | 4.10 | 3.97 | 4.27 | 2.54 | 2.70 | 3.74 | 2.57 | 3.22 | 1.83 | 34.00 |
| 1984 | 0.49 | 0.89 | 2.54 | 3.02 | 4.05 | 0.32 | 2.64 | 3.16 | 2.69 | 3.09 | 2.54 | 3.79 | 29.22 |
| 1985 | 2.04 | 3.03 | 3.53 | 2.90 | 2.14 | 2.17 | 3.06 | 4.36 | 3.34 | 3.25 | 3.08 | 1.29 | 34.19 |
| 1986 | 0.89 | 2.62 | 1.56 | 1.96 | 1.97 | 10.21 | 1.69 | 2.88 | 8.34 | 2.66 | 1.21 | 1.13 | 37.12 |
| 1987 | 1.00 | 0.35 | 0.97 | 1.58 | 1.37 | 3.30 | 3.35 | 5.64 | 4.88 | 1.77 | 2.89 | 3.40 | 30.50 |
| 1988 | 1.53 | 1.10 | 1.52 | 3.95 | 0.63 | 0.20 | 2.56 | 5.08 | 5.97 | 3.35 | 4.26 | 1.26 | 31.41 |
| 1989 | 1.15 | 0.67 | 2.13 | 1.44 | 6.57 | 3.61 | 0.93 | 4.90 | 3.49 | 1.29 | 3.65 | 0.86 | 30.69 |
| 1990 | 1.55 | 2.65 | 1.40 | 2.36 | 3.43 | 2.50 | 3.61 | 2.40 | 4.00 | 5.58 | 5.40 | 2.79 | 37.67 |
| 1991 | 1.28 | 0.79 | 3.76 | 4.41 | 1.75 | 2.60 | 2.41 | 3.83 | 1.05 | 3.80 | 3.02 | 2.13 | 30.83 |
| 1992 | 1.38 | 1.36 | 2.68 | 4.64 | 2.09 | 2.07 | 6.43 | 2.79 | 3.21 | 2.18 | 3.88 | 2.16 | 34.87 |
| 1993 | 3.22 | 1.17 | 1.74 | 4.86 | 1.37 | 6.50 | 2.94 | 3.80 | 4.80 | 2.99 | 1.39 | 0.70 | 35.48 |
| 1994 | 1.87 | 1.10 | 1.95 | 3.60 | 1.12 | 5.54 | 3.90 | 5.30 | 2.99 | 2.63 | 3.87 | 1.55 | 35.42 |
| 1995 | 2.34 | 1.18 | 2.01 | 2.85 | 2.83 | 0.95 | 2.04 | 2.87 | 1.06 | 2.55 | 3.37 | 1.05 | 25.10 |
| 1996 | 1.26 | 0.78 | 1.02 | 3.58 | 3.39 | | 1.82 | 3.71 | 2.41 | 2.73 | 1.59 | 2.58 | |
| 1997 | 1.24 | 3.83 | 2.07 | 1.69 | 3.19 | 1.74 | 2.22 | 3.92 | 3.10 | 1.66 | 1.39 | 0.89 | 26.94 |
| POR= 92 YRS | 1.70 | 1.60 | 2.38 | 2.88 | 3.22 | 3.44 | 2.68 | 3.02 | 2.99 | 2.39 | 2.38 | 2.00 | 30.68 |

WBAN : 14836

AVERAGE TEMPERATURE (°F) 1997 LANSING, MI (LAN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968 | 20.1 | 21.2 | 36.7 | 48.9 | 53.2 | 66.5 | 70.2 | 69.5 | 62.7 | 51.3 | 37.5 | 25.5 | 46.9 |
| 1969 | 21.8 | 25.4 | 30.4 | 47.2 | 56.5 | 61.9 | 71.1 | 72.8 | 64.2 | 50.0 | 36.2 | 25.8 | 46.9 |
| 1970 | 16.4 | 23.6 | 29.1 | 46.5 | 58.6 | 65.5 | 70.2 | 68.2 | 61.5 | 51.8 | 39.1 | 25.8 | 46.4 |
| 1971 | 19.1 | 26.5 | 30.2 | 44.2 | 55.0 | 70.4 | 67.2 | 66.9 | 64.3 | 58.2 | 38.3 | 31.9 | 47.7 |
| 1972 | 21.3 | 21.8 | 29.7 | 41.6 | 58.2 | 61.6 | 68.1 | 67.1 | 59.9 | 44.9 | 35.3 | 26.5 | 44.7 |
| 1973 | 27.5 | 21.3 | 39.8 | 46.2 | 52.9 | 67.7 | 70.1 | 73.0 | 62.0 | 54.3 | 39.9 | 26.6 | 48.4 |
| 1974 | 24.9 | 19.4 | 34.1 | 48.0 | 53.6 | 64.2 | 71.3 | 68.4 | 57.5 | 47.6 | 39.4 | 29.3 | 46.5 |
| 1975 | 27.1 | 26.1 | 30.6 | 40.3 | 61.3 | 68.4 | 70.6 | 69.6 | 56.2 | 52.2 | 45.0 | 27.8 | 47.9 |
| 1976 | 17.4 | 29.9 | 38.2 | 48.1 | 54.0 | 69.1 | 70.9 | 66.8 | 59.3 | 44.8 | 31.6 | 18.0 | 45.7 |
| 1977 | 11.1 | 23.2 | 40.2 | 50.8 | 64.3 | 64.0 | 73.6 | 68.5 | 62.7 | 48.3 | 39.5 | 25.3 | 47.6 |
| 1978 | 17.6 | 11.3 | 25.6 | 43.8 | 58.6 | 65.7 | 69.5 | 69.5 | 65.1 | 48.4 | 39.8 | 26.8 | 45.1 |
| 1979 | 16.1 | 13.0 | 37.8 | 44.5 | 57.1 | 67.3 | 70.3 | 67.5 | 63.0 | 49.5 | 38.4 | 30.6 | 46.3 |
| 1980 | 22.2 | 19.6 | 29.9 | 45.0 | 58.5 | 63.5 | 72.5 | 71.8 | 61.8 | 45.2 | 36.7 | 23.7 | 45.9 |
| 1981 | 17.6 | 28.2 | 35.5 | 48.6 | 54.3 | 67.2 | 71.1 | 69.7 | 58.1 | 46.1 | 39.1 | 27.1 | 46.9 |
| 1982 | 15.1 | 19.8 | 31.2 | 41.5 | 63.9 | 62.3 | 70.8 | 66.7 | 60.4 | 51.8 | 40.1 | 34.8 | 46.5 |
| 1983 | 26.5 | 30.9 | 35.9 | 42.1 | 52.4 | 67.1 | 74.4 | 72.3 | 62.4 | 48.9 | 39.5 | 17.8 | 47.5 |
| 1984 | 14.9 | 32.6 | 27.1 | 46.5 | 52.6 | 69.7 | 69.6 | 71.9 | 59.6 | 52.7 | 38.2 | 31.3 | 47.2 |
| 1985 | 17.8 | 20.2 | 36.0 | 51.1 | 59.3 | 63.3 | 70.5 | 67.2 | 63.0 | 50.7 | 39.0 | 21.2 | 46.6 |
| 1986 | 21.9 | 21.1 | 36.0 | 49.2 | 58.1 | 64.6 | 72.3 | 65.4 | 62.6 | 50.3 | 35.0 | 29.9 | 47.2 |
| 1987 | 24.7 | 29.0 | 37.5 | 49.2 | 62.4 | 70.6 | 74.6 | 69.4 | 62.3 | 44.7 | 41.5 | 31.7 | 49.8 |
| 1988 | 20.6 | 19.9 | 34.0 | 46.5 | 59.7 | 68.1 | 74.6 | 72.6 | 61.2 | 44.1 | 40.7 | 27.1 | 47.4 |
| 1989 | 30.9 | 19.9 | 32.5 | 43.6 | 55.1 | 65.8 | 71.3 | 68.4 | 59.8 | 50.7 | 33.6 | 15.8 | 45.6 |
| 1990 | 31.8 | 26.8 | 37.0 | 47.8 | 54.1 | 66.5 | 69.3 | 68.4 | 62.1 | 49.7 | 42.5 | 29.2 | 48.8 |
| 1991 | 20.9 | 29.4 | 37.6 | 50.2 | 63.7 | 69.3 | 71.4 | 69.3 | 58.6 | 51.9 | 35.5 | 28.8 | 48.9 |
| 1992 | 25.9 | 29.5 | 32.2 | 43.4 | 56.2 | 63.3 | 66.1 | 63.9 | 58.8 | 47.3 | 37.7 | 30.8 | 46.3 |
| 1993 | 25.7 | 20.9 | 32.4 | 44.7 | 57.6 | 65.1 | 72.1 | 70.5 | 56.5 | 47.8 | 36.9 | 27.5 | 46.5 |
| 1994 | 14.1 | 18.1 | 33.5 | 47.5 | 54.8 | 67.3 | 70.4 | 65.5 | 62.4 | 50.8 | 41.7 | 31.6 | 46.5 |
| 1995 | 25.5 | 21.2 | 35.9 | 42.0 | 55.3 | 67.6 | 71.3 | 74.2 | 58.5 | 52.0 | 31.9 | 23.3 | 46.6 |
| 1996 | 21.6 | 24.2 | 28.4 | 42.6 | 55.1 | 67.3 | 66.6 | 69.5 | 60.3 | 49.6 | 32.6 | 28.4 | 45.5 |
| 1997 | 21.1 | 26.3 | 34.0 | 42.7 | 48.3 | 66.3 | 68.7 | 64.5 | 59.6 | 47.7 | 34.8 | 30.0 | 45.3 |
| POR= 92 YRS | 21.9 | 22.5 | 32.7 | 45.0 | 56.7 | 66.2 | 70.8 | 68.9 | 61.5 | 50.3 | 38.0 | 26.6 | 46.8 |

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WBAN : 14836

HEATING DEGREE DAYS (base 65°F) 1997 LANSING, MI (LAN)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1968-69 | 24 | 57 | 111 | 451 | 818 | 1218 | 1331 | 1103 | 1068 | 531 | 286 | 152 | 7150 |
| 1969-70 | 9 | 6 | 119 | 462 | 858 | 1208 | 1498 | 1153 | 1106 | 564 | 235 | 97 | 7315 |
| 1970-71 | 26 | 31 | 159 | 409 | 771 | 1208 | 1416 | 1070 | 1069 | 621 | 318 | 34 | 7132 |
| 1971-72 | 35 | 39 | 129 | 234 | 792 | 1016 | 1348 | 1246 | 1089 | 696 | 219 | 142 | 6985 |
| 1972-73 | 56 | 56 | 173 | 616 | 884 | 1186 | 1158 | 1218 | 774 | 564 | 370 | 20 | 7075 |
| 1973-74 | 11 | 5 | 179 | 339 | 745 | 1182 | 1233 | 1270 | 949 | 513 | 359 | 94 | 6879 |
| 1974-75 | 6 | 27 | 256 | 538 | 762 | 1099 | 1166 | 1085 | 1057 | 737 | 180 | 57 | 6970 |
| 1975-76 | 11 | 13 | 266 | 402 | 593 | 1145 | 1469 | 1011 | 826 | 528 | 338 | 30 | 6632 |
| 1976-77 | 4 | 57 | 210 | 619 | 994 | 1449 | 1666 | 1164 | 761 | 439 | 137 | 99 | 7599 |
| 1977-78 | 7 | 50 | 118 | 514 | 757 | 1226 | 1461 | 1496 | 1215 | 627 | 244 | 84 | 7799 |
| 1978-79 | 24 | 13 | 105 | 507 | 751 | 1181 | 1509 | 1452 | 834 | 608 | 289 | 58 | 7331 |
| 1979-80 | 19 | 41 | 118 | 491 | 792 | 1058 | 1323 | 1308 | 1081 | 600 | 229 | 124 | 7184 |
| 1980-81 | 0 | 5 | 136 | 607 | 842 | 1271 | 1464 | 1026 | 907 | 483 | 330 | 24 | 7095 |
| 1981-82 | 12 | 23 | 227 | 579 | 770 | 1168 | 1540 | 1259 | 1044 | 696 | 108 | 113 | 7539 |
| 1982-83 | 7 | 62 | 184 | 406 | 739 | 930 | 1187 | 951 | 895 | 681 | 386 | 66 | 6494 |
| 1983-84 | 14 | 9 | 152 | 500 | 756 | 1456 | 1546 | 936 | 1166 | 554 | 387 | 17 | 7493 |
| 1984-85 | 21 | 13 | 208 | 374 | 798 | 1039 | 1458 | 1248 | 891 | 439 | 202 | 94 | 6785 |
| 1985-86 | 12 | 26 | 168 | 438 | 772 | 1350 | 1330 | 1224 | 893 | 480 | 237 | 77 | 7007 |
| 1986-87 | 11 | 63 | 125 | 451 | 895 | 1079 | 1240 | 1005 | 846 | 469 | 188 | 23 | 6395 |
| 1987-88 | 16 | 38 | 124 | 621 | 700 | 1026 | 1371 | 1301 | 955 | 547 | 199 | 74 | 6972 |
| 1988-89 | 7 | 35 | 147 | 644 | 721 | 1165 | 1049 | 1255 | 999 | 637 | 320 | 53 | 7032 |
| 1989-90 | 6 | 28 | 199 | 437 | 934 | 1520 | 1023 | 1062 | 869 | 546 | 336 | 55 | 7015 |
| 1990-91 | 22 | 20 | 154 | 484 | 667 | 1102 | 1359 | 990 | 841 | 449 | 171 | 30 | 6289 |
| 1991-92 | 7 | 13 | 244 | 407 | 877 | 1114 | 1207 | 1023 | 1007 | 642 | 294 | 95 | 6930 |
| 1992-93 | 33 | 88 | 224 | 543 | 813 | 1050 | 1215 | 1231 | 1003 | 604 | 234 | 81 | 7119 |
| 1993-94 | 3 | 22 | 264 | 533 | 835 | 1158 | 1574 | 1307 | 973 | 535 | 331 | 62 | 7597 |
| 1994-95 | 1 | 61 | 121 | 432 | 692 | 1027 | 1216 | 1221 | 895 | 682 | 295 | 49 | 6692 |
| 1995-96 | 22 | 1 | 225 | 405 | 985 | 1285 | 1340 | 1180 | 1130 | 663 | 331 | 28 | 7595 |
| 1996-97 | 38 | 8 | 174 | 472 | 966 | 1130 | 1352 | 1075 | 953 | 661 | 513 | 57 | 7399 |
| 1997- | 23 | 70 | 175 | 538 | 898 | 1079 | | | | | | | |

WBAN : 14836

COOLING DEGREE DAYS (base 65°F) 1997 LANSING, MI (LAN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0 | 0 | 0 | 2 | 31 | 65 | 203 | 256 | 101 | 5 | 0 | 0 | 663 |
| 1970 | 0 | 0 | 0 | 15 | 42 | 117 | 193 | 134 | 60 | 5 | 0 | 0 | 566 |
| 1971 | 0 | 0 | 0 | 0 | 14 | 202 | 112 | 103 | 113 | 28 | 0 | 0 | 572 |
| 1972 | 0 | 0 | 0 | 0 | 12 | 46 | 161 | 127 | 26 | 1 | 0 | 0 | 373 |
| 1973 | 0 | 0 | 0 | 7 | 0 | 106 | 176 | 264 | 92 | 12 | 0 | 0 | 657 |
| 1974 | 0 | 0 | 0 | 8 | 11 | 80 | 208 | 138 | 37 | 5 | 0 | 0 | 487 |
| 1975 | 0 | 0 | 0 | 0 | 73 | 165 | 192 | 162 | 5 | 11 | 0 | 0 | 608 |
| 1976 | 0 | 0 | 0 | 25 | 4 | 162 | 198 | 121 | 45 | 1 | 0 | 0 | 556 |
| 1977 | 0 | 0 | 0 | 19 | 124 | 76 | 282 | 162 | 56 | 0 | 0 | 0 | 719 |
| 1978 | 0 | 0 | 0 | 0 | 53 | 110 | 170 | 157 | 115 | 0 | 0 | 0 | 605 |
| 1979 | 0 | 0 | 0 | 0 | 48 | 133 | 192 | 125 | 63 | 17 | 0 | 0 | 578 |
| 1980 | 0 | 0 | 0 | 4 | 33 | 86 | 239 | 223 | 46 | 0 | 0 | 0 | 631 |
| 1981 | 0 | 0 | 0 | 1 | 7 | 101 | 210 | 178 | 27 | 0 | 0 | 0 | 524 |
| 1982 | 0 | 0 | 0 | 0 | 80 | 40 | 193 | 122 | 53 | 6 | 0 | 0 | 494 |
| 1983 | 0 | 0 | 0 | 0 | 1 | 134 | 311 | 242 | 79 | 7 | 0 | 0 | 774 |
| 1984 | 0 | 0 | 0 | 5 | 10 | 164 | 173 | 234 | 51 | 1 | 0 | 0 | 638 |
| 1985 | 0 | 0 | 0 | 32 | 31 | 50 | 189 | 100 | 116 | 0 | 0 | 0 | 518 |
| 1986 | 0 | 0 | 0 | 10 | 31 | 68 | 246 | 83 | 59 | 0 | 0 | 0 | 497 |
| 1987 | 0 | 0 | 0 | 0 | 114 | 199 | 322 | 181 | 48 | 0 | 1 | 0 | 865 |
| 1988 | 0 | 0 | 0 | 0 | 41 | 173 | 307 | 277 | 41 | 4 | 0 | 0 | 843 |
| 1989 | 0 | 0 | 0 | 0 | 22 | 85 | 209 | 138 | 49 | 1 | 0 | 0 | 504 |
| 1990 | 0 | 0 | 6 | 37 | 7 | 106 | 163 | 134 | 74 | 14 | 0 | 0 | 541 |
| 1991 | 0 | 0 | 0 | 14 | 139 | 165 | 213 | 151 | 59 | 9 | 0 | 0 | 750 |
| 1992 | 0 | 0 | 0 | 2 | 28 | 48 | 74 | 62 | 45 | 1 | 0 | 0 | 260 |
| 1993 | 0 | 0 | 0 | 0 | 13 | 92 | 228 | 200 | 13 | 5 | 0 | 0 | 551 |
| 1994 | 0 | 0 | 0 | 15 | 22 | 135 | 177 | 85 | 50 | 0 | 0 | 0 | 484 |
| 1995 | 0 | 0 | 0 | 0 | 4 | 133 | 222 | 292 | 35 | 8 | 0 | 0 | 694 |
| 1996 | 0 | 0 | 0 | 0 | 30 | 105 | 96 | 152 | 41 | 0 | 0 | 0 | 424 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 102 | 145 | 60 | 18 | 9 | 0 | 0 | 334 |

SNOWFALL (inches) 1997 LANSING, MI (LAN)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-------|
| 1968-69 | 0.0 | 0.0 | 0.0 | T | 1.8 | 8.6 | 13.2 | 3.1 | 4.9 | T | T | 0.0 | 31.6 |
| 1969-70 | 0.0 | 0.0 | 0.0 | T | 8.5 | 6.1 | 14.3 | 8.5 | 13.3 | 17.0 | 0.0 | 0.0 | 67.7 |
| 1970-71 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 26.1 | 8.9 | 5.7 | 19.8 | 1.2 | 0.0 | 0.0 | 62.6 |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 3.7 | 16.9 | 14.6 | 9.3 | 5.8 | 0.0 | 0.0 | 63.3 |
| 1972-73 | 0.0 | 0.0 | 0.0 | T | 11.8 | 18.3 | 1.9 | 21.3 | 16.5 | 5.5 | T | 0.0 | 75.3 |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | T | 23.6 | 14.9 | 16.5 | 10.4 | 0.5 | T | 0.0 | 65.9 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.5 | 6.9 | 20.4 | 4.4 | 12.7 | 10.4 | 13.2 | 0.0 | 0.0 | 68.5 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 20.2 | 23.5 | 4.6 | 6.8 | 5.5 | T | 0.0 | 70.6 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 1.4 | 4.6 | 20.5 | 17.2 | 3.5 | 8.7 | 1.1 | 0.0 | 0.0 | 57.0 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 13.3 | 34.0 | 6.7 | 4.6 | T | 0.0 | 0.0 | 66.7 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 14.7 | 27.1 | 4.1 | 4.2 | 1.5 | T | 0.0 | 58.6 |
| 1979-80 | 0.0 | 0.0 | 0.0 | T | 7.2 | 3.2 | 6.7 | 5.5 | 8.8 | 3.3 | 0.0 | 0.0 | 34.7 |
| 1980-81 | 0.0 | 0.0 | 0.0 | T | 4.2 | 14.2 | 5.9 | 12.2 | 2.2 | T | 0.0 | 0.0 | 38.7 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.3 | 2.2 | 15.9 | 15.6 | 8.2 | 12.9 | 7.0 | 0.0 | 0.0 | 62.1 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 4.3 | 5.1 | 3.5 | 15.2 | 4.3 | 0.0 | 0.0 | 33.5 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.1 | 3.0 | 21.4 | 9.1 | 3.2 | 12.1 | 0.5 | 0.0 | 0.0 | 49.4 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 11.7 | 25.5 | 17.5 | 3.8 | 0.9 | 0.0 | 0.0 | 60.6 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 16.4 | 12.5 | 23.7 | 4.9 | T | 0.0 | 0.0 | 61.2 |
| 1986-87 | 0.0 | 0.0 | 0.0 | T | 4.1 | 6.8 | 16.8 | 1.4 | 5.7 | 2.5 | 0.0 | 0.0 | 37.3 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.5 | T | 12.9 | 9.7 | 18.7 | 4.9 | 1.2 | 0.0 | 0.0 | 47.9 |
| 1988-89 | 0.0 | 0.0 | 0.0 | T | 3.8 | 8.5 | 7.2 | 13.5 | 4.4 | 2.5 | 0.0 | 0.0 | 39.9 |
| 1989-90 | 0.0 | 0.0 | T | 3.9 | 11.8 | 10.2 | 3.6 | 21.3 | 5.0 | 0.6 | T | 0.0 | 56.4 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 12.9 | 13.8 | 6.5 | 2.8 | 0.1 | 0.0 | 0.0 | 36.2 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 1.3 | 3.8 | 19.1 | 11.0 | 4.2 | 14.1 | 4.8 | 0.0 | T | 58.3 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 1.2 | 4.3 | 8.7 | 17.6 | 19.2 | 13.1 | 3.3 | 0.0 | 0.0 | 67.4 |
| 1993-94 | 0.0 | 0.0 | 0.0 | T | 1.5 | 5.7 | 16.0 | 21.6 | 5.1 | 0.1 | 0.3 | 0.0 | 50.3 |
| 1994-95 | 0.0 | 0.0 | T | 0.0 | 0.9 | 9.0 | 20.9 | 13.7 | 5.6 | 1.7 | 0.0 | 0.0 | 51.8 |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 11.2 | 5.3 | 3.9 | 10.3 | 0.6 | 0.0 | | |
| 1996-97 | | | | | | | | | | | | | |
| 1997- | | | | | | | | | | | | | |
| POR= 92 YRS | 0.0 | 0.0 | 0.0 | 0.4 | 4.5 | 10.7 | 11.9 | 10.0 | 8.3 | 2.6 | 0.2 | T | 48.6 |

WBAN : 14836

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> |
|---|---|

1997
LANSING,
MICHIGAN (LAN)

The climate at Lansing alternates between continental and semi-marine, depending on meteorological conditions. The marine type is due to the influence of the Great Lakes and is governed by the force and direction of the wind. When there is little or no wind, the weather becomes continental in character, which means pronounced fluctuation in temperature, hot weather in summer and severe cold in winter. On the other hand, a strong wind from the Lakes may immediately transform the weather into a semi-marine type.

Since large bodies of water are less responsive to temperature changes, the Great Lakes hold the winter cold longer in the spring and the summer heat longer in the fall than do the land areas. This fact is illustrated by looking at some monthly mean temperatures at Lansing as compared to similar latitudes west of the Lakes. Such a comparison shows cooler summers and milder winters in Lansing because of the lake effect.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 30 and the average last occurrence in the spring is May 13.

Precipitation is fairly well distributed through the year, and no conspicuous annual variation is noted, although there is about 1 inch less per month in winter than in summer. The heavier amounts in summer occur in thunderstorms. The wettest months are May and June. Snowfall for Lansing is moderate, averaging about 52 inches per year.

There are almost twice as many cloudy days as clear days throughout the year. Much cloudiness prevails during the winter season, but sunshine is abundant during the summer months. Similarly, relative humidity remains rather high during the winter, but is only moderate in summer.

Tornadoes sometimes occur in this area, but their frequency is less than in states farther to the south and west. Destructive thunder and wind storms are not uncommon. Flooding of streams and rivers in the upper grand Basin occurs in about one year out of three, with floods causing considerable damage in about one year out of ten.

