

1997

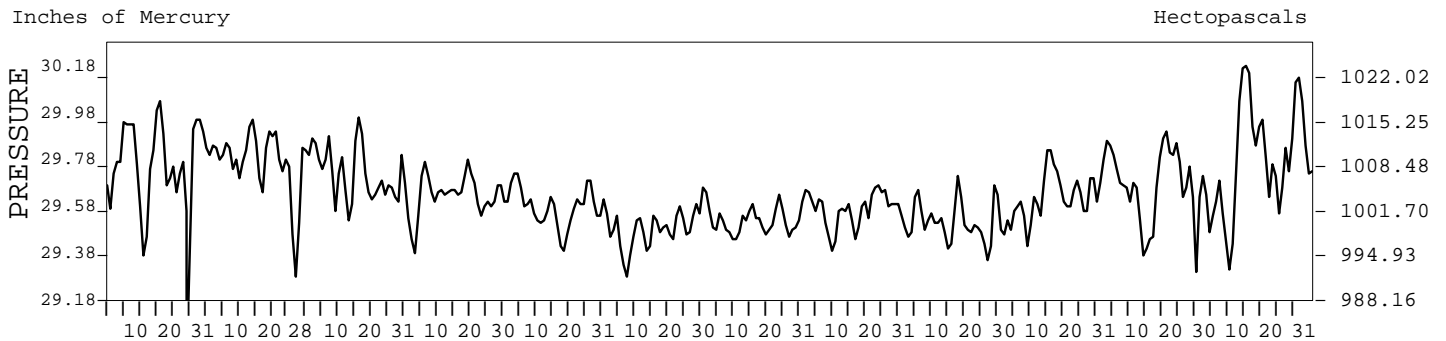
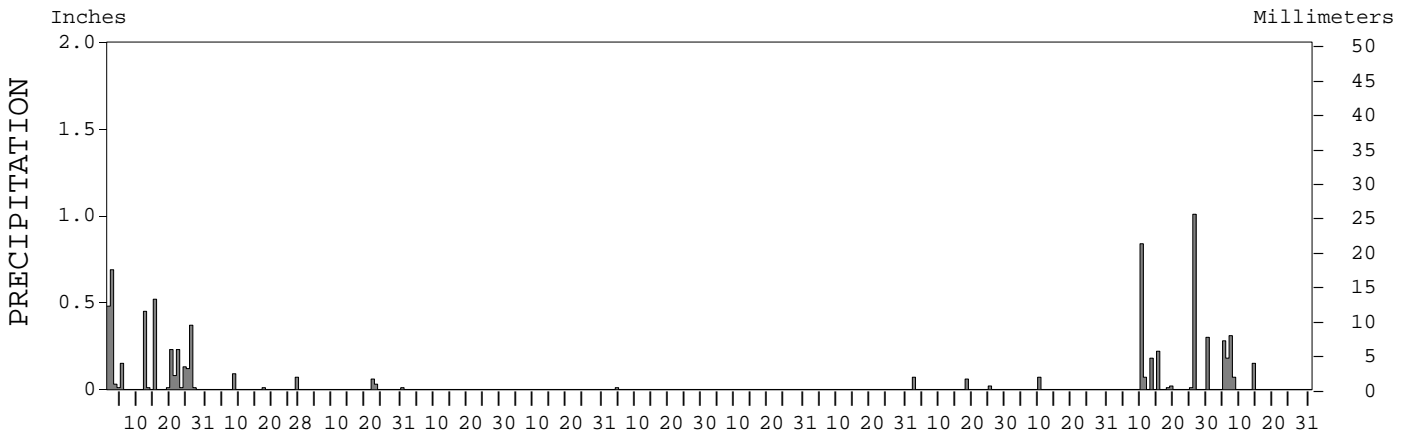
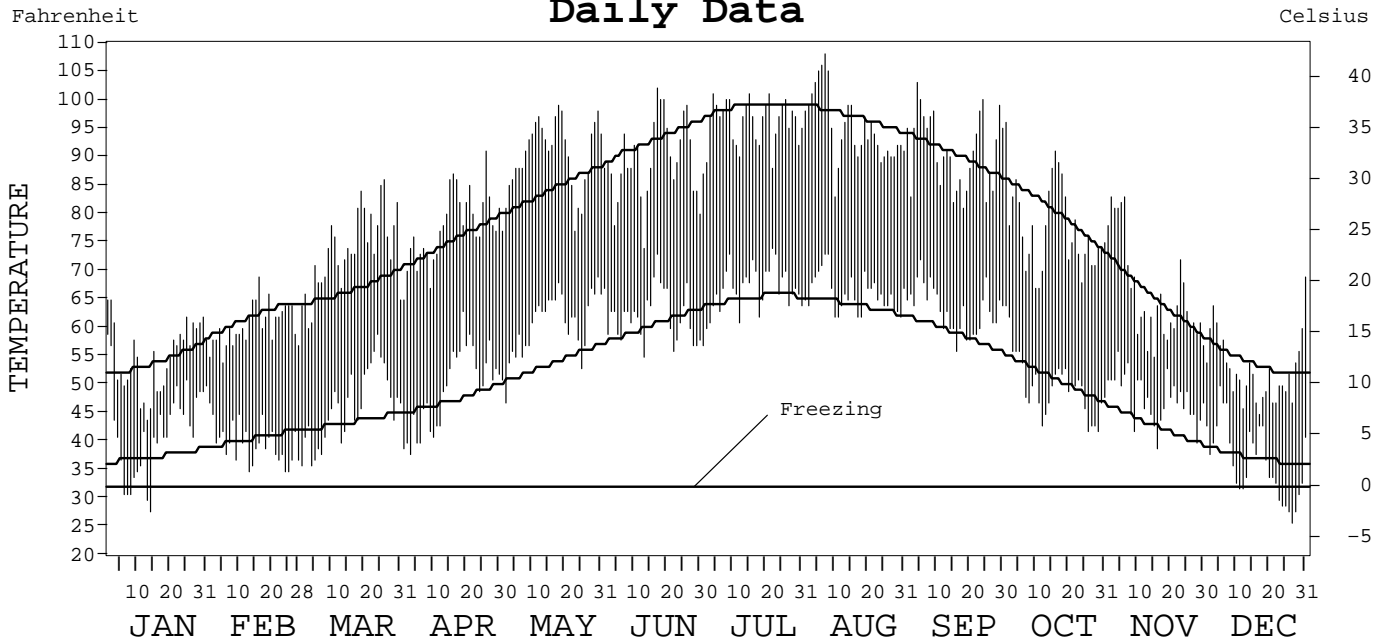
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0734

FRESNO,
CALIFORNIA (FAT)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

James H. ...
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

FRESNO, CA (FAT)

LATITUDE: 36° 46' 48" N LONGITUDE: 119° 43' 10" W ELEVATION (FT): GRND: 328 BARO: 330 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 93193

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 55.1 | 60.6 | 73.6 | 77.7 | 90.0 | 89.4 | 95.9 | 95.1 | 91.2 | 77.6 | 66.2 | 52.8 | 77.1 |
| | HIGHEST DAILY MAXIMUM | 65 | 69 | 86 | 91 | 99 | 102 | 101 | 108 | 103 | 96 | 83 | 69 | 108 |
| | DATE OF OCCURRENCE | 02+ | 16 | 26 | 26 | 18 | 17 | 21+ | 07 | 04 | 01 | 06+ | 31 | AUG 07 |
| | MEAN DAILY MINIMUM | 42.2 | 39.9 | 46.3 | 49.3 | 60.6 | 62.2 | 66.7 | 66.1 | 63.3 | 49.9 | 47.6 | 36.6 | 52.6 |
| | LOWEST DAILY MINIMUM | 28 | 35 | 36 | 38 | 47 | 55 | 57 | 62 | 56 | 42 | 39 | 26 | 26 |
| | DATE OF OCCURRENCE | 14 | 25+ | 04+ | 03 | 02 | 13 | 01 | 30+ | 16 | 29+ | 16 | 27 | DEC 27 |
| | AVERAGE DRY BULB | 48.7 | 50.3 | 60.0 | 63.5 | 75.3 | 75.8 | 81.3 | 80.6 | 77.3 | 63.8 | 56.9 | 44.7 | 64.9 |
| | MEAN WET BULB | | 46.6 | | 52.8 | | | | | 63.2 | 53.0 | 51.9 | 42.0 | |
| | MEAN DEW POINT | | 42.3 | | 41.9 | | | | | 53.9 | 43.7 | 47.8 | 39.8 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 0 | 0 | 0 | 1 | 18 | 13 | 28 | 28 | 18 | 2 | 0 | 0 | 0 | 108 |
| MAXIMUM ≤ 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MINIMUM ≤ 32° | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 14 | |
| MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 500 | 405 | 169 | 97 | 2 | 0 | 0 | 0 | 0 | 92 | 246 | 621 | 2132 |
| | COOLING DEGREE DAYS | 0 | 0 | 18 | 61 | 330 | 334 | 514 | 492 | 373 | 61 | 11 | 0 | 2194 |
| RH | MEAN (PERCENT) | 86 | 77 | 62 | 49 | 43 | 46 | 40 | 45 | 48 | 53 | 75 | 86 | 59 |
| | HOUR 04 LST | 92 | 89 | 87 | 75 | 64 | 67 | 60 | 65 | 67 | 74 | 85 | 94 | 77 |
| | HOUR 10 LST | 86 | 79 | 56 | 42 | 38 | 43 | 37 | 42 | 46 | 46 | 69 | 88 | 56 |
| | HOUR 16 LST | 74 | 56 | 35 | 25 | 25 | 29 | 24 | 26 | 29 | 30 | 59 | 69 | 40 |
| | HOUR 22 LST | 90 | 81 | 68 | 50 | 43 | 50 | 42 | 45 | 49 | 60 | 83 | 91 | 63 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 15 | 35 |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| CLOUDINESS | SUNRISE-SUNSET: (OKTAS) | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT: (OKTAS) | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | |
| PR | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | CLEAR | | | | | | | | | | | | | |
| | PARTLY CLOUDY | | | | | | | | | | | | | |
| | CLOUDY | | | | | | | | | | | | | |
| PR | MEAN STATION PRESS. (IN.) | | 29.76 | 29.73 | 29.63 | 29.58 | 29.48 | 29.52 | 29.56 | 29.51 | 29.64 | 29.65 | 29.79 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | | 30.12 | | 29.97 | | | | | 29.85 | 29.99 | 30.00 | 30.14 | |
| WINDS | RESULTANT SPEED (MPH) | | 2.6 | 1.8 | 6.8 | 2.6 | 4.0 | 0.4 | 3.1 | 1.1 | 2.2 | 0.8 | 0.9 | |
| | RES. DIR. (TENS OF DEGS.) | | 34 | 34 | 31 | 26 | 30 | 36 | 31 | 14 | 31 | 12 | 11 | |
| | MEAN SPEED (MPH) | 5.6 | 4.4 | 5.4 | | 9.4 | 9.2 | 7.6 | 7.5 | 5.9 | 4.6 | 4.3 | 3.1 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 13 | 31 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 12 | 08 | 31 |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | |
| | SPEED (MPH) | 24 | 26 | 29 | 28 | 25 | 26 | 22 | 20 | 24 | 23 | 25 | 21 | 29 |
| | DIR. (TENS OF DEGS.) | 30 | 31 | 30 | 33 | 30 | 31 | 31 | 31 | 32 | 30 | 13 | 14 | 30 |
| | DATE OF OCCURRENCE | 13 | 17 | 30 | 01 | 01 | 05 | 09 | 20 | 14 | 06+ | 26 | 07 | MAR 30 |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | |
| | SPEED (MPH) | 29 | 30 | 37 | 38 | 30 | 31 | 25 | 24 | 30 | 28 | 31 | 24 | 38 |
| DIR. (TENS OF DEGS.) | 15 | 31 | 29 | 32 | 04 | 30 | 30 | 32 | 31 | 29 | 13 | 17 | 32 | |
| DATE OF OCCURRENCE | 25+ | 17 | 30 | 01 | 19+ | 05+ | 09 | 20 | 14 | 06 | 26 | 14+ | APR 01 | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | |
| | TOTAL (IN.) | 3.53 | 0.17 | 0.10 | T | T | 0.01 | T | 0.00 | 0.15 | 0.07 | 2.66 | 0.99 | 7.68 |
| | GREATEST 24-HOUR (IN.) | 0.40 | 0.09 | 0.09 | T | T | 0.01 | T | 0.00 | 0.07 | 0.07 | 1.02 | 0.38 | 1.02 |
| | DATE OF OCCURRENCE | 25-26 | 08 | 22-23 | 18 | 23 | 04 | 30+ | | 02 | 10 | 25-26 | 07-08 | NOV 25-26 |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 17 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 9 | 5 | 42 |
| PRECIPITATION ≥ 0.10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 19 | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 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

FRESNO, CA (FAT)

LATITUDE: 36° 46' 48" N LONGITUDE: 119° 43' 10" W ELEVATION (FT): GRND: 328 BARO: 330 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 93193

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 54.1 | 61.7 | 66.6 | 75.1 | 84.2 | 92.7 | 98.6 | 96.7 | 90.1 | 79.7 | 64.7 | 53.7 | 76.5 |
| | MEAN DAILY MAXIMUM | 48 | 54.3 | 61.7 | 66.8 | 74.8 | 83.4 | 91.5 | 98.1 | 96.2 | 90.4 | 80.0 | 65.3 | 54.4 | 76.4 |
| | HIGHEST DAILY MAXIMUM | 48 | 78 | 80 | 90 | 100 | 107 | 110 | 112 | 112 | 111 | 102 | 89 | 76 | 112 |
| | YEAR OF OCCURRENCE | | 1986 | 1991 | 1972 | 1981 | 1984 | 1964 | 1991 | 1996 | 1955 | 1980 | 1949 | 1958 | AUG 1996 |
| | MEAN OF EXTREME MAXS. | 48 | 67.4 | 73.5 | 79.9 | 89.7 | 98.5 | 104.7 | 106.7 | 105.4 | 101.8 | 93.9 | 79.9 | 67.1 | 89.0 |
| | NORMAL DAILY MINIMUM | 30 | 37.4 | 40.5 | 43.4 | 47.3 | 53.7 | 60.4 | 65.1 | 63.8 | 58.8 | 50.7 | 42.5 | 37.1 | 50.1 |
| | MEAN DAILY MINIMUM | 48 | 37.4 | 40.4 | 43.3 | 47.6 | 53.8 | 59.9 | 65.1 | 63.5 | 58.9 | 50.6 | 42.0 | 37.0 | 50.0 |
| | LOWEST DAILY MINIMUM | 48 | 19 | 24 | 26 | 32 | 36 | 44 | 50 | 49 | 37 | 27 | 26 | 18 | 18 |
| | YEAR OF OCCURRENCE | | 1963 | 1990 | 1966 | 1982 | 1975 | 1955 | 1955 | 1966 | 1950 | 1972 | 1975 | 1990 | DEC 1990 |
| | MEAN OF EXTREME MINS. | 48 | 27.3 | 30.8 | 33.7 | 38.6 | 43.9 | 50.8 | 56.4 | 55.8 | 50.2 | 40.4 | 32.0 | 27.5 | 40.6 |
| | NORMAL DRY BULB | 30 | 45.7 | 51.2 | 55.1 | 61.2 | 69.0 | 76.6 | 81.9 | 80.3 | 74.5 | 65.2 | 53.6 | 45.4 | 63.3 |
| | MEAN DRY BULB | 48 | 45.9 | 51.1 | 55.0 | 61.2 | 68.5 | 75.6 | 81.6 | 79.8 | 74.7 | 65.3 | 53.7 | 45.7 | 63.2 |
| | MEAN WET BULB | 13 | 43.7 | 47.4 | 51.2 | 53.8 | 57.1 | 61.6 | 65.8 | 59.6 | 61.7 | 56.1 | 48.4 | 42.5 | 54.1 |
| | MEAN DEW POINT | 13 | 40.8 | 43.0 | 45.7 | 45.0 | 42.9 | 46.1 | 54.5 | 49.4 | 52.0 | 48.2 | 43.2 | 39.5 | 45.9 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | * | 2.1 | 9.4 | 19.5 | 28.5 | 26.3 | 16.9 | 4.2 | 0.0 | 0.0 | 106.9 | |
| MAXIMUM ≤ 32° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | |
| MINIMUM ≤ 32° | 30 | 8.5 | 3.1 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.0 | 8.9 | 23.4 | |
| MINIMUM ≤ 0° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 598 | 386 | 314 | 182 | 34 | 0 | 0 | 0 | 8 | 84 | 342 | 608 | 2556 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 7 | 68 | 158 | 352 | 524 | 474 | 293 | 91 | 0 | 0 | 1967 |
| RH | NORMAL (PERCENT) | 30 | 83 | 77 | 69 | 57 | 47 | 42 | 39 | 45 | 50 | 58 | 74 | 84 | 60 |
| | HOUR 04 LST | 30 | 91 | 90 | 86 | 80 | 72 | 64 | 60 | 67 | 72 | 78 | 87 | 92 | 78 |
| | HOUR 10 LST | 30 | 84 | 77 | 65 | 51 | 43 | 39 | 37 | 42 | 45 | 52 | 71 | 85 | 58 |
| | HOUR 16 LST | 30 | 67 | 56 | 46 | 34 | 26 | 23 | 21 | 25 | 28 | 34 | 54 | 69 | 40 |
| | HOUR 22 LST | 30 | 88 | 83 | 74 | 62 | 50 | 43 | 40 | 46 | 52 | 64 | 81 | 89 | 64 |
| S | PERCENT POSSIBLE SUNSHINE | 46 | 47 | 65 | 77 | 85 | 90 | 95 | 97 | 96 | 94 | 88 | 66 | 46 | 79 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 48 | 11.7 | 6.1 | 1.7 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.9 | 5.5 | 11.9 | 38.3 |
| | THUNDERSTORMS | 48 | 0.3 | 0.4 | 0.9 | 0.5 | 0.6 | 0.4 | 0.3 | 0.2 | 0.7 | 0.5 | 0.2 | 0.3 | 5.3 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | | | | | | | | |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| CLEAR | 1 | | 3.0 | 5.0 | | 6.0 | 4.0 | | | | | | | | |
| PARTLY CLOUDY | 1 | | 1.0 | | | 1.0 | | | | | | | | | |
| CLOUDY | 1 | 2.0 | 3.0 | 1.0 | | 1.0 | | | | | | | | | |
| PR | MEAN STATION PRESSURE (IN) | 24 | 29.80 | 29.70 | 29.70 | 29.70 | 29.60 | 29.50 | 29.50 | 29.50 | 29.60 | 29.60 | 29.79 | 29.80 | 29.65 |
| | MEAN SEA-LEVEL PRES. (IN) | 13 | 30.16 | 30.09 | 30.05 | 30.00 | 29.93 | 29.87 | 29.88 | 27.58 | 29.90 | 29.98 | 30.10 | 30.15 | 29.81 |
| WINDS | MEAN SPEED (MPH) | 36 | 5.2 | 5.7 | 6.7 | 7.4 | 8.2 | 8.3 | 7.4 | 6.8 | 6.1 | 5.2 | 4.7 | 4.8 | 6.4 |
| | PREVAIL. DIR (TENS OF DEGS) | 22 | 12 | 12 | 32 | 31 | 31 | 30 | 30 | 30 | 30 | 31 | 30 | 12 | 30 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 2 | 24 | 26 | 29 | 28 | 25 | 26 | 22 | 20 | 26 | 25 | 25 | 24 | 29 |
| | DIR. (TENS OF DEGS) | | 12 | 31 | 30 | 29 | 30 | 31 | 31 | 31 | 30 | 30 | 13 | 15 | 30 |
| | YEAR OF OCCURRENCE | | 1996 | 1997 | 1997 | 1996 | 1997 | 1997 | 1997 | 1996 | 1996 | 1996 | 1997 | 1996 | MAR 1997 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 2 | 29 | 30 | 37 | 38 | 30 | 31 | 25 | 24 | 31 | 31 | 31 | 29 | 38 | |
| DIR. (TENS OF DEGS) | | 29 | 18 | 29 | 32 | 30 | 30 | 30 | 32 | 30 | 30 | 13 | 14 | 32 | |
| YEAR OF OCCURRENCE | | 1997 | 1996 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1996 | 1996 | 1997 | 1996 | APR 1997 | |
| PRECIPITATION | NORMAL (IN) | 30 | 1.96 | 1.80 | 1.89 | 0.97 | 0.30 | 0.08 | 0.01 | 0.03 | 0.24 | 0.53 | 1.37 | 1.42 | 10.60 |
| | MAXIMUM MONTHLY (IN) | 48 | 8.56 | 5.97 | 7.24 | 4.41 | 1.65 | 1.61 | 0.22 | 0.25 | 1.19 | 2.19 | 3.50 | 6.73 | 8.56 |
| | YEAR OF OCCURRENCE | | 1969 | 1962 | 1991 | 1967 | 1990 | 1993 | 1992 | 1964 | 1976 | 1992 | 1972 | 1955 | JAN 1969 |
| | MINIMUM MONTHLY (IN) | 48 | 0.04 | T | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | YEAR OF OCCURRENCE | | 1976 | 1964 | 1972 | 1997 | 1982 | 1983 | 1983 | 1981 | 1981 | 1978 | 1959 | 1989 | DEC 1989 |
| | MAXIMUM IN 24 HOURS (IN) | 48 | 2.59 | 1.99 | 2.43 | 1.39 | 1.42 | 1.61 | 0.22 | 0.25 | 0.97 | 1.76 | 1.35 | 1.76 | 2.59 |
| | YEAR OF OCCURRENCE | | 1969 | 1969 | 1995 | 1983 | 1990 | 1993 | 1992 | 1964 | 1978 | 1992 | 1953 | 1955 | JAN 1969 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 6.8 | 7.0 | 7.3 | 4.2 | 1.6 | 0.7 | 0.2 | 0.4 | 1.1 | 2.3 | 6.2 | 6.7 | 44.5 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.2 | 0.3 | 0.1 | 0.1 | * | 0.0 | 0.0 | 0.0 | 0.0 | * | 0.0 | 0.1 | 0.8 | |
| SNOWFALL | NORMAL (IN) | 30 | 0.1 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.1 |
| | MAXIMUM MONTHLY (IN) | 47 | 2.2 | T | T | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T | 0.0 | 1.2 | 2.2 |
| | YEAR OF OCCURRENCE | | 1962 | 1994 | 1991 | | | 1995 | | | | 1974 | | 1968 | JAN 1962 |
| | MAXIMUM IN 24 HOURS (IN) | 47 | 1.5 | T | T | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T | 0.0 | 1.2 | 1.5 |
| | YEAR OF OCCURRENCE | | 1962 | 1994 | 1991 | | | 1995 | | | | 1974 | | 1968 | JAN 1962 |
| | MAXIMUM SNOW DEPTH (IN) | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | YEAR OF OCCURRENCE | | | | | | | | | | | | | 1968 | DEC 1968 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 0.* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.0 | |

PRECIPITATION (inches) 1997 FRESNO, CA (FAT)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968 | 1.05 | 1.10 | 1.49 | 0.70 | 0.24 | 0.00 | T | T | 0.00 | 1.54 | 1.94 | 2.44 | 10.50 |
| 1969 | 8.56 | 5.60 | 1.16 | 1.64 | 0.06 | 0.04 | 0.04 | 0.00 | 0.04 | 0.06 | 0.80 | 1.14 | 19.14 |
| 1970 | 3.83 | 1.27 | 1.65 | 0.21 | 0.00 | 0.08 | T | 0.00 | 0.00 | 0.01 | 2.30 | 2.51 | 11.86 |
| 1971 | 0.40 | 0.29 | 0.58 | 1.04 | 1.40 | 0.00 | T | T | 0.04 | 0.03 | 0.65 | 2.56 | 6.99 |
| 1972 | 0.37 | 0.67 | 0.00 | 0.27 | 0.15 | 0.60 | T | 0.00 | 0.29 | 0.22 | 3.50 | 1.40 | 7.47 |
| 1973 | 1.91 | 3.69 | 2.84 | 0.09 | T | T | 0.00 | T | 0.00 | 1.02 | 1.39 | 1.74 | 12.68 |
| 1974 | 2.82 | 0.25 | 2.56 | 0.64 | 0.00 | 0.00 | T | T | 0.00 | 1.44 | 0.34 | 1.26 | 9.31 |
| 1975 | 0.69 | 0.97 | 2.44 | 0.55 | T | 0.00 | T | 0.05 | 0.22 | 1.07 | 0.20 | 0.14 | 6.33 |
| 1976 | 0.04 | 4.72 | 0.44 | 0.93 | T | 0.37 | 0.01 | 0.21 | 1.19 | 1.55 | 0.87 | 0.71 | 11.04 |
| 1977 | 0.68 | 0.09 | 1.04 | 0.04 | 1.16 | 0.06 | T | T | T | 0.01 | 0.46 | 3.02 | 6.56 |
| 1978 | 3.16 | 4.41 | 4.25 | 2.85 | 0.00 | 0.00 | T | T | 1.05 | 0.00 | 1.34 | 0.62 | 17.68 |
| 1979 | 2.71 | 2.53 | 2.27 | 0.07 | 0.06 | 0.00 | 0.08 | 0.00 | T | 0.48 | 1.01 | 0.74 | 9.95 |
| 1980 | 3.83 | 3.30 | 2.05 | 0.25 | 0.18 | T | 0.01 | 0.00 | 0.00 | 0.03 | 0.14 | 0.49 | 10.28 |
| 1981 | 2.67 | 1.29 | 2.59 | 1.01 | T | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 1.22 | 0.65 | 10.01 |
| 1982 | 2.11 | 0.58 | 4.76 | 0.89 | 0.00 | 0.31 | 0.00 | T | 1.10 | 1.58 | 3.16 | 1.59 | 16.08 |
| 1983 | 5.14 | 3.70 | 4.53 | 2.76 | 0.01 | 0.00 | 0.00 | 0.09 | 1.03 | 0.09 | 2.51 | 1.75 | 21.61 |
| 1984 | 0.15 | 1.05 | 0.48 | 0.25 | 0.02 | 0.20 | T | T | 0.00 | 0.70 | 1.94 | 1.98 | 6.77 |
| 1985 | 0.43 | 0.71 | 1.73 | 0.12 | 0.00 | 0.33 | 0.04 | 0.02 | 0.43 | 0.85 | 3.02 | 0.72 | 8.40 |
| 1986 | 2.12 | 3.66 | 3.42 | 0.36 | 0.16 | 0.00 | T | 0.00 | 0.38 | 0.00 | 0.01 | 2.30 | 12.41 |
| 1987 | 1.93 | 1.36 | 2.39 | 0.07 | 0.87 | 0.01 | 0.00 | 0.00 | T | 0.85 | 0.52 | 1.19 | 9.19 |
| 1988 | 1.52 | 0.83 | 0.27 | 2.41 | 0.45 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 1.42 | 2.46 | 9.39 |
| 1989 | 0.48 | 1.18 | 2.25 | 0.05 | 0.89 | 0.00 | 0.00 | 0.03 | 1.11 | 0.42 | 0.50 | 0.00 | 6.91 |
| 1990 | 2.82 | 1.33 | 0.67 | 0.92 | 1.65 | 0.00 | T | 0.00 | 0.15 | 0.05 | 0.46 | 0.68 | 8.73 |
| 1991 | 0.13 | 1.01 | 7.24 | 0.02 | 0.03 | T | 0.00 | T | T | 0.80 | 0.04 | 1.22 | 10.49 |
| 1992 | 1.94 | 4.73 | 2.14 | 0.18 | T | T | 0.22 | T | T | 2.19 | T | 2.68 | 14.08 |
| 1993 | 5.18 | 2.44 | 1.76 | 0.20 | 0.25 | 1.61 | 0.00 | 0.00 | 0.00 | 0.12 | 1.16 | 1.03 | 13.75 |
| 1994 | 1.15 | 1.92 | 0.52 | 1.36 | 1.30 | 0.00 | T | 0.00 | 0.20 | 0.77 | 1.57 | 1.33 | 10.12 |
| 1995 | 5.42 | 0.93 | 5.88 | 1.08 | 1.19 | 0.66 | 0.01 | T | 0.00 | 0.00 | T | 2.12 | 17.29 |
| 1996 | 2.07 | 3.57 | 1.52 | 1.17 | 0.38 | 0.08 | T | 0.00 | 0.00 | 1.97 | 1.94 | 4.27 | 16.97 |
| 1997 | 3.53 | 0.17 | 0.10 | T | T | 0.01 | T | 0.00 | 0.15 | 0.07 | 2.66 | 0.99 | 7.68 |
| POR= 120 YRS | 1.86 | 1.66 | 1.75 | 0.94 | 0.37 | 0.11 | 0.00 | 0.00 | 0.10 | 0.51 | 1.02 | 1.52 | 9.84 |

WBAN : 93193

AVERAGE TEMPERATURE (°F) 1997 FRESNO, CA (FAT)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968 | 44.8 | 55.8 | 55.8 | 61.5 | 68.1 | 78.0 | 82.4 | 77.2 | 73.7 | 63.3 | 51.9 | 43.3 | 63.0 |
| 1969 | 44.8 | 47.5 | 53.1 | 59.7 | 70.4 | 72.9 | 80.9 | 79.7 | 75.7 | 59.7 | 53.1 | 46.2 | 62.0 |
| 1970 | 49.1 | 52.7 | 55.3 | 57.0 | 70.8 | 76.5 | 83.3 | 79.9 | 73.0 | 63.4 | 55.4 | 46.3 | 63.6 |
| 1971 | 45.7 | 47.6 | 54.4 | 59.1 | 64.2 | 74.4 | 81.9 | 81.1 | 73.4 | 60.9 | 50.7 | 42.9 | 61.4 |
| 1972 | 40.6 | 52.5 | 60.7 | 61.1 | 69.9 | 77.5 | 81.5 | 79.7 | 71.8 | 62.6 | 50.2 | 40.9 | 62.4 |
| 1973 | 45.1 | 51.9 | 50.4 | 61.2 | 72.9 | 78.6 | 80.4 | 78.5 | 72.0 | 63.3 | 52.9 | 47.2 | 62.9 |
| 1974 | 47.9 | 49.1 | 56.3 | 60.0 | 69.5 | 77.7 | 81.3 | 79.3 | 77.5 | 66.0 | 53.1 | 44.5 | 63.5 |
| 1975 | 43.4 | 49.9 | 51.5 | 53.9 | 68.4 | 74.7 | 78.1 | 75.9 | 75.8 | 61.4 | 49.5 | 43.9 | 60.5 |
| 1976 | 44.3 | 49.6 | 52.4 | 57.2 | 69.7 | 72.9 | 79.4 | 72.7 | 72.2 | 65.1 | 53.4 | 46.5 | 61.3 |
| 1977 | 44.3 | 53.5 | 52.4 | 65.5 | 63.6 | 79.8 | 81.5 | 80.6 | 74.0 | 66.8 | 54.6 | 51.3 | 64.0 |
| 1978 | 51.4 | 52.6 | 60.3 | 58.9 | 69.9 | 76.3 | 82.4 | 81.4 | 73.0 | 70.0 | 52.1 | 42.8 | 64.3 |
| 1979 | 47.0 | 51.4 | 57.4 | 62.7 | 71.1 | 77.9 | 82.2 | 79.9 | 79.5 | 67.8 | 54.0 | 46.9 | 64.8 |
| 1980 | 49.4 | 53.8 | 53.7 | 61.8 | 67.2 | 73.7 | 84.0 | 80.7 | 75.6 | 68.4 | 54.2 | 46.8 | 64.1 |
| 1981 | 47.9 | 52.0 | 54.5 | 63.2 | 70.9 | 82.8 | 84.9 | 82.9 | 76.5 | 61.4 | 55.5 | 47.7 | 65.0 |
| 1982 | 41.7 | 50.5 | 51.4 | 58.0 | 69.3 | 72.9 | 81.0 | 80.4 | 72.3 | 65.0 | 51.1 | 45.4 | 61.6 |
| 1983 | 45.2 | 53.1 | 55.9 | 57.9 | 69.7 | 76.3 | 79.0 | 82.1 | 78.8 | 68.5 | 54.6 | 51.1 | 64.3 |
| 1984 | 47.8 | 50.7 | 58.4 | 60.8 | 74.8 | 77.5 | 87.0 | 83.5 | 81.0 | 62.4 | 53.6 | 46.5 | 65.3 |
| 1985 | 43.3 | 51.3 | 53.1 | 67.2 | 69.4 | 81.8 | 86.0 | 80.5 | 72.3 | 65.0 | 52.5 | 43.8 | 63.9 |
| 1986 | 53.6 | 55.7 | 60.3 | 62.7 | 71.2 | 79.4 | 81.9 | 84.2 | 71.3 | 66.9 | 56.7 | 47.5 | 66.0 |
| 1987 | 45.3 | 52.8 | 55.6 | 66.7 | 71.8 | 78.4 | 77.0 | 80.2 | 75.5 | 70.1 | 52.3 | 44.2 | 64.2 |
| 1988 | 46.0 | 52.2 | 56.8 | 61.6 | 67.0 | 75.6 | 85.5 | 81.2 | 76.4 | 68.7 | 54.3 | 44.5 | 64.2 |
| 1989 | 42.9 | 48.8 | 57.9 | 67.3 | 69.6 | 77.0 | 82.5 | 79.3 | 74.3 | 65.3 | 54.3 | 43.8 | 63.6 |
| 1990 | 45.5 | 48.0 | 57.3 | 65.7 | 68.1 | 76.8 | 84.0 | 80.6 | 75.8 | 67.7 | 52.9 | 41.5 | 63.7 |
| 1991 | 47.0 | 55.8 | 51.5 | 59.5 | 66.1 | 74.7 | 83.8 | 78.6 | 79.9 | 70.5 | 55.8 | 47.0 | 64.2 |
| 1992 | 42.7 | 55.5 | 58.8 | 66.8 | 76.0 | 77.0 | 81.3 | 83.2 | 77.0 | 68.6 | 54.3 | 45.3 | 65.5 |
| 1993 | 47.1 | 51.9 | 60.3 | 61.7 | 69.9 | 75.7 | 80.2 | 79.7 | 75.7 | 67.8 | 53.9 | 45.6 | 64.1 |
| 1994 | 46.9 | 49.9 | 59.3 | 63.2 | 68.5 | 77.7 | 83.3 | 82.3 | 75.4 | 64.8 | 48.1 | 45.3 | 63.7 |
| 1995 | 51.9 | 54.1 | 56.2 | 60.7 | 66.2 | 73.3 | 80.7 | 82.6 | 76.3 | 66.8 | 58.7 | 50.5 | 64.8 |
| 1996 | 48.3 | 54.2 | 57.2 | 63.6 | 69.9 | 77.8 | 85.4 | 83.4 | 74.8 | 64.1 | 53.9 | 49.1 | 65.1 |
| 1997 | 48.7 | 50.3 | 60.0 | 63.5 | 75.3 | 75.8 | 81.3 | 80.6 | 77.3 | 63.8 | 56.9 | 44.7 | 64.9 |
| POR= 110 YRS | 45.9 | 51.2 | 55.2 | 61.1 | 68.1 | 75.5 | 81.8 | 80.0 | 74.2 | 65.0 | 54.2 | 46.2 | 63.2 |

HEATING DEGREE DAYS (base 65°F) 1997 FRESNO, CA (FAT)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1968-69 | 0 | 0 | 12 | 73 | 387 | 665 | 619 | 480 | 366 | 168 | 30 | 0 | 2800 |
| 1969-70 | 0 | 0 | 0 | 166 | 349 | 574 | 485 | 340 | 291 | 232 | 25 | 0 | 2462 |
| 1970-71 | 0 | 0 | 0 | 108 | 282 | 573 | 593 | 480 | 322 | 181 | 81 | 8 | 2628 |
| 1971-72 | 0 | 0 | 20 | 209 | 423 | 678 | 750 | 357 | 142 | 128 | 37 | 0 | 2744 |
| 1972-73 | 0 | 0 | 2 | 108 | 437 | 740 | 610 | 358 | 444 | 140 | 12 | 2 | 2853 |
| 1973-74 | 0 | 0 | 0 | 94 | 360 | 544 | 522 | 438 | 260 | 160 | 33 | 0 | 2411 |
| 1974-75 | 0 | 0 | 0 | 59 | 350 | 628 | 661 | 419 | 409 | 325 | 53 | 3 | 2907 |
| 1975-76 | 0 | 0 | 0 | 154 | 455 | 648 | 636 | 440 | 385 | 242 | 10 | 9 | 2979 |
| 1976-77 | 0 | 1 | 5 | 63 | 342 | 566 | 636 | 313 | 386 | 42 | 98 | 0 | 2452 |
| 1977-78 | 0 | 0 | 0 | 46 | 302 | 417 | 415 | 343 | 143 | 182 | 19 | 0 | 1867 |
| 1978-79 | 0 | 0 | 6 | 30 | 382 | 682 | 549 | 372 | 234 | 96 | 34 | 0 | 2385 |
| 1979-80 | 0 | 0 | 0 | 56 | 323 | 555 | 473 | 318 | 343 | 129 | 46 | 0 | 2243 |
| 1980-81 | 0 | 0 | 0 | 69 | 318 | 553 | 521 | 359 | 316 | 114 | 9 | 0 | 2259 |
| 1981-82 | 0 | 0 | 0 | 118 | 278 | 530 | 711 | 398 | 412 | 217 | 21 | 4 | 2689 |
| 1982-83 | 0 | 0 | 13 | 62 | 411 | 602 | 607 | 327 | 276 | 206 | 55 | 0 | 2559 |
| 1983-84 | 0 | 0 | 1 | 3 | 304 | 421 | 530 | 408 | 198 | 149 | 6 | 0 | 2020 |
| 1984-85 | 0 | 0 | 0 | 128 | 335 | 566 | 664 | 378 | 361 | 39 | 8 | 3 | 2482 |
| 1985-86 | 0 | 0 | 0 | 63 | 369 | 651 | 345 | 258 | 156 | 98 | 30 | 0 | 1970 |
| 1986-87 | 0 | 0 | 13 | 22 | 242 | 537 | 602 | 337 | 282 | 56 | 26 | 0 | 2117 |
| 1987-88 | 0 | 0 | 0 | 7 | 374 | 636 | 583 | 366 | 251 | 124 | 69 | 12 | 2422 |
| 1988-89 | 0 | 0 | 0 | 20 | 316 | 629 | 679 | 450 | 213 | 52 | 14 | 0 | 2373 |
| 1989-90 | 0 | 0 | 7 | 73 | 310 | 649 | 598 | 470 | 236 | 35 | 19 | 1 | 2398 |
| 1990-91 | 0 | 0 | 0 | 17 | 356 | 722 | 549 | 253 | 412 | 163 | 65 | 0 | 2537 |
| 1991-92 | 0 | 0 | 0 | 81 | 276 | 551 | 683 | 267 | 183 | 25 | 0 | 1 | 2067 |
| 1992-93 | 0 | 0 | 0 | 18 | 316 | 602 | 549 | 359 | 145 | 113 | 9 | 12 | 2123 |
| 1993-94 | 0 | 0 | 0 | 12 | 326 | 595 | 553 | 414 | 168 | 97 | 37 | 0 | 2202 |
| 1994-95 | 0 | 0 | 0 | 58 | 500 | 602 | 398 | 298 | 269 | 146 | 60 | 16 | 2347 |
| 1995-96 | 0 | 0 | 0 | 30 | 184 | 444 | 513 | 304 | 238 | 99 | 8 | 0 | 1820 |
| 1996-97 | 0 | 0 | 0 | 148 | 329 | 486 | 500 | 405 | 169 | 97 | 2 | 0 | 2136 |
| 1997- | 0 | 0 | 0 | 92 | 246 | 621 | | | | | | | |

WBAN : 93193

COOLING DEGREE DAYS (base 65°F) 1997 FRESNO, CA (FAT)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0 | 0 | 4 | 15 | 206 | 241 | 500 | 462 | 331 | 10 | 0 | 0 | 1769 |
| 1970 | 0 | 0 | 0 | 0 | 212 | 353 | 573 | 466 | 245 | 67 | 3 | 0 | 1919 |
| 1971 | 0 | 0 | 0 | 8 | 64 | 296 | 529 | 505 | 279 | 89 | 0 | 0 | 1770 |
| 1972 | 0 | 0 | 17 | 18 | 195 | 383 | 518 | 464 | 213 | 42 | 0 | 0 | 1850 |
| 1973 | 0 | 0 | 0 | 32 | 264 | 419 | 484 | 423 | 218 | 47 | 4 | 0 | 1891 |
| 1974 | 0 | 0 | 0 | 20 | 179 | 384 | 512 | 448 | 381 | 96 | 0 | 0 | 2020 |
| 1975 | 0 | 0 | 0 | 0 | 164 | 303 | 413 | 344 | 329 | 49 | 0 | 0 | 1602 |
| 1976 | 0 | 0 | 2 | 16 | 162 | 254 | 456 | 246 | 228 | 73 | 0 | 0 | 1437 |
| 1977 | 0 | 0 | 0 | 62 | 60 | 451 | 518 | 494 | 275 | 108 | 0 | 0 | 1968 |
| 1978 | 0 | 0 | 3 | 6 | 179 | 342 | 546 | 516 | 250 | 187 | 0 | 0 | 2029 |
| 1979 | 0 | 0 | 2 | 37 | 229 | 396 | 541 | 471 | 442 | 149 | 0 | 0 | 2267 |
| 1980 | 0 | 0 | 0 | 39 | 120 | 265 | 594 | 493 | 326 | 181 | 0 | 0 | 2018 |
| 1981 | 0 | 0 | 0 | 67 | 200 | 545 | 622 | 562 | 352 | 14 | 0 | 0 | 2362 |
| 1982 | 0 | 0 | 0 | 12 | 162 | 251 | 501 | 483 | 240 | 70 | 0 | 0 | 1719 |
| 1983 | 0 | 0 | 0 | 0 | 207 | 343 | 440 | 537 | 422 | 119 | 0 | 0 | 2068 |
| 1984 | 0 | 0 | 1 | 30 | 318 | 382 | 688 | 581 | 487 | 55 | 0 | 0 | 2542 |
| 1985 | 0 | 0 | 0 | 111 | 153 | 516 | 657 | 487 | 227 | 69 | 2 | 0 | 2222 |
| 1986 | 0 | 1 | 18 | 34 | 231 | 440 | 530 | 603 | 206 | 87 | 0 | 0 | 2150 |
| 1987 | 0 | 0 | 0 | 114 | 243 | 409 | 379 | 480 | 323 | 172 | 0 | 0 | 2120 |
| 1988 | 0 | 0 | 3 | 28 | 139 | 338 | 642 | 511 | 349 | 143 | 3 | 0 | 2156 |
| 1989 | 0 | 0 | 4 | 129 | 166 | 366 | 546 | 449 | 291 | 90 | 0 | 0 | 2041 |
| 1990 | 0 | 0 | 2 | 61 | 122 | 360 | 595 | 490 | 333 | 108 | 0 | 0 | 2071 |
| 1991 | 0 | 0 | 0 | 6 | 107 | 298 | 588 | 428 | 454 | 259 | 5 | 0 | 2145 |
| 1992 | 0 | 0 | 0 | 88 | 350 | 366 | 511 | 572 | 365 | 135 | 0 | 0 | 2387 |
| 1993 | 0 | 0 | 3 | 20 | 168 | 342 | 476 | 462 | 331 | 105 | 0 | 0 | 1907 |
| 1994 | 0 | 0 | 1 | 52 | 151 | 389 | 576 | 547 | 318 | 59 | 0 | 0 | 2093 |
| 1995 | 0 | 0 | 0 | 25 | 104 | 273 | 494 | 551 | 347 | 91 | 0 | 0 | 1885 |
| 1996 | 0 | 0 | 4 | 66 | 162 | 389 | 640 | 579 | 300 | 125 | 0 | 0 | 2265 |
| 1997 | 0 | 0 | 18 | 61 | 330 | 334 | 514 | 492 | 373 | 61 | 11 | 0 | 2194 |

SNOWFALL (inches) 1997 FRESNO, CA (FAT)

| 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 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1972-73 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1974-75 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | 0.0 | 0.0 | T |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T | T |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1997- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| POR= 46 YRS | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T | T | 0.0 | 0.0 | T | 0.0 |

WBAN : 93193

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
FRESNO,
CALIFORNIA (FAT)

Fresno is located about midway and toward the eastern edge of the San Joaquin Valley, which is oriented northwest to southeast and has a length of about 225 miles and an average width of 50 miles. The San Joaquin Valley is generally flat. About 15 miles east of Fresno the terrain slopes upward with the foothills of the Sierra Nevada. The Sierra Nevada attain an elevation of more than 14,000 feet 50 miles east of Fresno. West of the city 45 miles lie the foothills of the Coastal Range.

The climate of Fresno is dry and mild in winter and hot in summer. Nearly nine-tenths of the annual precipitation falls in the six months from November to April.

Due to clear skies during the summer and the protection of the San Joaquin Valley from marine effects, the normal daily maximum temperature reaches the high 90s during the latter part of July. The daily maximum temperature during the warmest month has ranged from 76 to 115 degrees. Low relative humidities and some wind movement substantially lower the sensible temperature during periods of high readings. Humidity readings of 15 percent are common on summer afternoons, and readings as low as 8 percent have been recorded. In contrast to this, humidity readings average 90 percent during the morning hours of December and January.

Winds flow with the major axis of the San Joaquin Valley, generally from the northwest. This feature is especially beneficial since, during the warmest months, the northwest winds increase during the evenings. These refreshing breezes and the normally large temperature variation of about 35 degrees between the highest and lowest readings of the day, generally result in comfortable evening and night temperatures.

Winter temperatures are usually mild with infrequent cold spells dropping the readings below freezing. Heavy frost occurs almost every year, and the first frost usually occurs during the last week of November. The last frost in spring is usually in early March, however, one year in five will have the last frost after the first of April. The growing season is 291 days.

Although the heaviest rains recorded at Fresno for short periods have occurred in June, usually any rainfall during the summer is very light. Snow is a rare occurrence in Fresno.

Fresno enjoys a very high percentage of sunshine, receiving more than 80 percent of the possible amounts during all but the four months of November, December, January, and February. Reduction of sunshine during these months is caused by fog and short periods of stormy weather.

During foggy periods, at times lasting nearly two weeks, sunshine is reduced to a minimum. This fog frequently lifts to a few hundred feet above the surface of the valley and presents the appearance of a heavy, solid cloud layer.

Spring and autumn are very enjoyable seasons in Fresno, with clear skies, light rainfall and winds and mild temperatures.

STATION LOCATION

FRESNO, CALIFORNIA

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | | | AUCOMPAITC H G F E D C B A * * * | * Type M = AMOS T = AUTOB S = ASOS W = AWOS | REMARKS |
|---|---------------|-------------|---|----------------|----------------|-----------------|--------|--------|--------|---------|--------|------|------------|------|------|------|---|---|---|---------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | | | | |
| | | | | | | | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | WIND | | | |
| <u>COOPERATIVE</u> | | | | | | | | | | | | | | | | | | | | |
| # | 1/1878 | 8/16/87 | NA | 36°44' | 119°47' | 287 | NA | NA | NA | NA | NA | NA | Unk | NA | NA | # | - Precipitation record only by Southern Pacific RR Company. | | | |
| <u>CITY</u> | | | | | | | | | | | | | | | | | | | | |
| Taylor Blk., 1042 J St. (Later Fulton Street) | 8/16/87 | 1/30/89 | NA | 36°44' | 119°47' | 287 | 46 | 36 a47 | 36 a46 | NA | NA | NA | 36 a35 | NA | NA | a | - New instruments 10/15/87. | | | |
| Hughes Bldg., 1011 I Street (Later Broadway) | 1/31/89 | 9/30/90 | 420 ft. SW | 36°44' | 119°47' | 287 | 64 | 68 | 67 | NA | NA | NA | 55 | NA | NA | | Exposure of wind instruments poor due to taller buildings nearby 8/16/87 to 9/30/90. | | | |
| Fresno Loan & Savings Bank Building, 1052 J Street (Later Fulton) | 10/1/90 | 1/25/95 | 435 ft. NE | 36°44' | 119°47' | 287 | 77 | 79 | 78 | NA | NA | NA | 65 | NA | NA | | | | | |
| Farmer's National Bank Building, 1056 I St. (Later Broadway) | 1/26/95 | 4/30/13 | 380 ft. SW | 36°44' | 119°47' | 287 | 70 c65 | 68 c63 | 67 c62 | NA | NA b54 | NA | 54 | NA | NA | b | - Installed 8/28/97. c - Minor adjustment 4/27/07. | | | |
| Rowell Building SE corner Tulare & Van Ness Avenue | 5/1/13 | 8/31/33 | 700 ft. ENE | 36°44' | 119°47' | 287 | 98 | 89 | 89 | NA | 82 | NA | 82 | NA | NA | | High buildings NW and SW reduced wind movement beginning in 1924. | | | |
| Brix Building 1221 Fulton Street | 9/1/33 | 7/1/39 | 700 ft. WNW | 36°44' | 119°48' | 287 | 105 | 97 | 97 | NA | 89 | NA | 89 | NA | NA | | Moved to airport 7/1/39. | | | |
| <u>AIRPORT</u> | | | | | | | | | | | | | | | | | | | | |
| Maddux Field, Highway 99 and Barstow Avenue | 7/1/29 | 3/14/30 | NA | 36°49' | 119°53' | 302 | 37 | Unk | 3 | NA | NA | NA | Unk | NA | NA | | | | | |
| WBO Bldg., Chandler Field, Kearney Blvd. and Fruit Avenue | 3/14/30 | 3/31/35 | 7 mi. SE | 36°44' | 119°49' | 277 | 33 | Unk | 18 | NA | NA | NA | Unk | NA | NA | | Airport Station closed 3/31/35. | | | |
| Administration Annex Chandler Field, Kearney Blvd. & Fruit Avenue | 3/1/39 | 8/20/49 | 1.5 mi. WSW | 36°44' | 119°49' | 277 | 35 d34 | 6 | 5 | NA | NA e5 | NA | 3 | NA | NA | | Airport Station reopened. Offices consolidated at airport 7/1/39. d - Wind instruments changed 7/1/39. e - Installed 7/1/39. f - Effective 10/16/61. g - Minor adjustment 9/14/62. h - Commissioned 4800' ESE of thermometer site 11/13/63. i - Effective 4/24/64. j - Moved 750' WNW 5/24/64. k - Type change 9/3/82. m - Minor adjustment & type change 2/18/87. | | | |
| Fresno Air Terminal SW corner Shields and Clovis Avenue | 8/20/49 | 9/1/61 | 7 mi. ENE | 36°47' | 119°42' | 331 | 42 | 6 | 6 | Unk | 3 | NA | 3 | NA | NA | | | | | |
| Fresno Air Terminal | 9/1/61 | Present | 0.9 mi. W | 36°46' | 119°43' | 326 i328 | 20 j20 | 5 | 5 | Unk f11 | 5 g5 | NA | 3 h4 j4 K4 | NA | NA | | ASOS Commissioned 09/01/95 | | | |

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