

1997

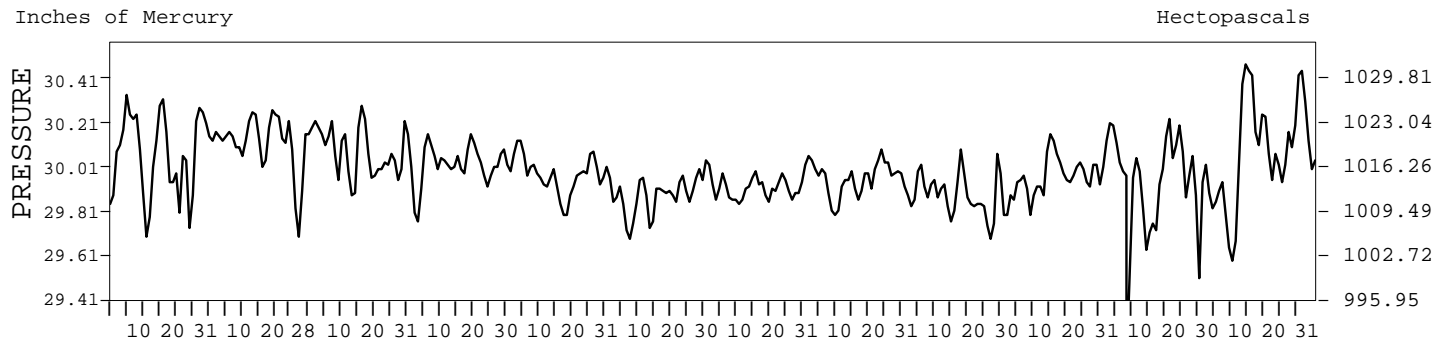
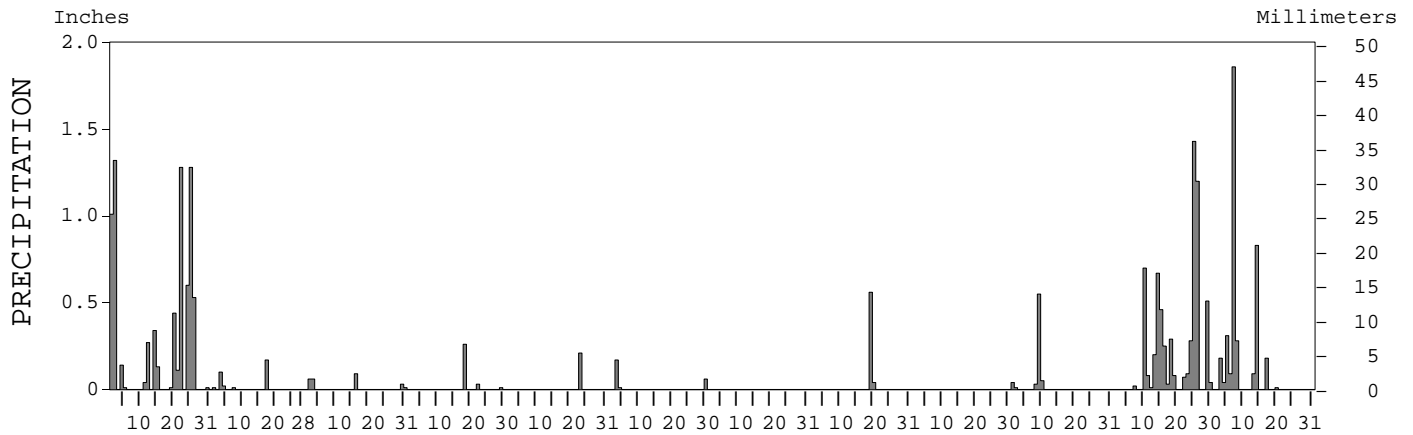
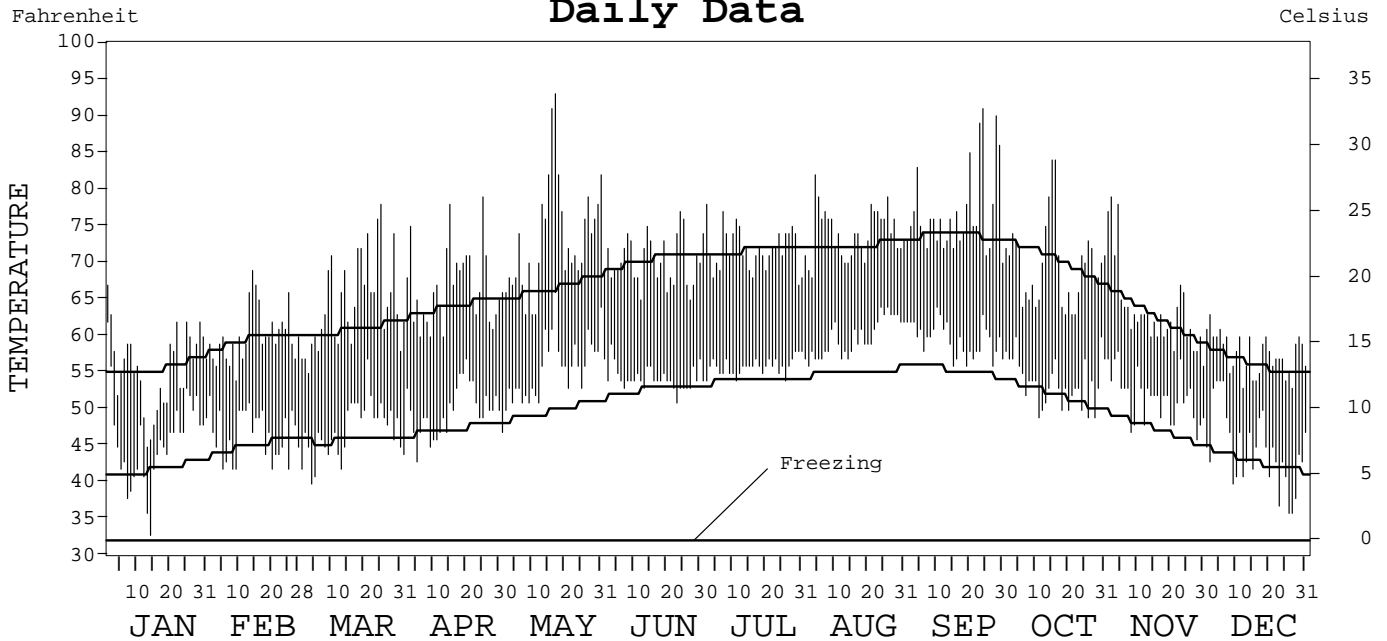
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



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SAN FRANCISCO, CALIFORNIA INTERNATIONAL AIRPORT (SFO)

Daily Data



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

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

METEOROLOGICAL DATA FOR 1997

SAN FRANCISCO AP, CA (SFO)

LATITUDE: 37° 37' 11" N LONGITUDE: 122° 23' 53" W ELEVATION (FT): GRND: 8 BARO: 90 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 23234

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 55.8 | 60.2 | 64.7 | 66.6 | 73.2 | 70.2 | 72.0 | 74.0 | 76.9 | 69.8 | 63.6 | 57.6 | 67.0 | |
| | HIGHEST DAILY MAXIMUM | 67 | 69 | 78 | 79 | 93 | 77 | 78 | 82 | 91 | 84 | 79 | 63 | 93 | |
| | DATE OF OCCURRENCE | 01 | 14 | 25 | 25 | 17 | 24 | 02 | 04 | 24 | 16+ | 02 | 02 | MAY 17 | |
| | MEAN DAILY MINIMUM | 46.0 | 46.6 | 47.4 | 49.8 | 55.5 | 54.4 | 55.9 | 59.8 | 59.6 | 53.7 | 51.7 | 44.6 | 52.1 | |
| | LOWEST DAILY MINIMUM | 33 | 42 | 40 | 43 | 47 | 51 | 54 | 56 | 56 | 49 | 46 | 36 | 33 | |
| | DATE OF OCCURRENCE | 14 | 25+ | 04 | 05 | 01 | 23 | 26+ | 02 | 27+ | 28+ | 28 | 27+ | JAN 14 | |
| | AVERAGE DRY BULB | 50.9 | 53.4 | 56.1 | 58.2 | 64.4 | 62.3 | 64.0 | 66.9 | 68.3 | 61.8 | 57.7 | 51.1 | 59.6 | |
| | MEAN WET BULB | 48.4 | 49.0 | 50.6 | 52.3 | 57.1 | 55.6 | 58.0 | 61.2 | | 55.7 | | 47.4 | | |
| | MEAN DEW POINT | 45.4 | 44.7 | 46.8 | 47.9 | 52.8 | 51.3 | 54.8 | 58.6 | | 51.3 | | 43.2 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| | MAXIMUM ≤ 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | MINIMUM ≤ 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 431 | 317 | 270 | 194 | 76 | 74 | 32 | 8 | 2 | 109 | 222 | 422 | 2157 | |
| | COOLING DEGREE DAYS | 0 | 0 | 1 | 0 | 65 | 1 | 5 | 78 | 107 | 15 | 7 | 0 | 279 | |
| RH | MEAN (PERCENT) | 83 | 75 | 76 | 74 | 72 | 72 | 79 | 80 | 73 | 74 | 85 | 76 | 77 | |
| | HOUR 04 LST | 88 | 82 | 87 | 85 | 86 | 85 | 91 | 92 | 85 | 84 | 94 | 82 | 87 | |
| | HOUR 10 LST | 84 | 74 | 77 | 67 | 65 | 64 | 72 | 73 | 68 | 70 | 85 | 75 | 73 | |
| | HOUR 16 LST | 77 | 64 | 62 | 63 | 57 | 59 | 66 | 66 | 57 | 59 | 75 | 66 | 64 | |
| | HOUR 22 LST | 85 | 79 | 80 | 82 | 81 | 80 | 87 | 88 | 81 | 80 | 86 | 76 | 82 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | |
| 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.) | 30.08 | 30.13 | 30.10 | 30.04 | 29.99 | 29.89 | 29.93 | 29.96 | 29.89 | 30.00 | | 30.10 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.09 | 30.14 | 30.11 | 30.05 | 30.00 | 29.91 | 29.95 | 29.98 | 29.91 | 30.02 | | 30.12 | | |
| WINDS | RESULTANT SPEED (MPH) | 0.8 | 7.3 | 7.3 | 12.2 | 11.1 | 14.0 | 11.0 | 10.6 | 9.9 | 7.0 | | 2.1 | | |
| | RES. DIR. (TENS OF DEGS.) | 16 | 28 | 27 | 27 | 27 | 26 | 27 | 27 | 27 | 27 | | 02 | | |
| | MEAN SPEED (MPH) | 8.1 | 10.5 | 9.8 | 14.3 | 12.4 | 15.5 | 12.6 | 12.9 | 11.3 | 9.6 | 6.7 | 7.1 | 10.9 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 27 | 27 | 27 | 26 | 27 | 26 | 28 | 26 | 27 | 26 | 27 | 35 | 27 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 43 | 43 | 37 | 44 | 37 | 43 | 38 | 32 | 32 | 40 | 31 | 39 | 44 | |
| | DIR. (TENS OF DEGS.) | 17 | 01 | 26 | 26 | 26 | 26 | 26 | 18 | 26 | 26 | 11 | 34 | 26 | |
| | DATE OF OCCURRENCE | 25+ | 24 | 27 | 08 | 24 | 12 | 17 | 09 | 26 | 06 | 15 | 22 | APR 08 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 56 | 48 | 46 | 52 | 44 | 53 | 44 | 38 | 39 | 49 | 36 | 45 | 56 | |
| DIR. (TENS OF DEGS.) | 16 | 27 | 26 | 27 | 26 | 26 | 26 | 19 | 25 | 29 | 24 | 34 | 16 | | |
| DATE OF OCCURRENCE | 25 | 27+ | 27 | 08 | 24 | 12 | 17 | 09+ | 26 | 06 | 26+ | 22 | JAN 25 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 7.52 | 0.31 | 0.25 | 0.30 | 0.21 | 0.24 | T | 0.60 | T | 0.68 | 6.41 | 3.87 | 20.39 | |
| | GREATEST 24-HOUR (IN.) | 1.73 | 0.17 | 0.09 | 0.26 | 0.21 | 0.17 | T | 0.60 | T | 0.55 | 2.29 | 1.89 | 2.29 | |
| | DATE OF OCCURRENCE | 24-25 | 17 | 16 | 18 | 23 | 03 | 23 | 19-20 | 17+ | 09 | 25-26 | 06-07 | NOV 25-26 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 16 | 5 | 5 | 3 | 1 | 3 | 0 | 2 | 0 | 5 | 18 | 10 | 68 | |
| PRECIPITATION ≥ 0.10 | 12 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 10 | 6 | 35 | | |
| PRECIPITATION ≥ 1.00 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 7 | | |
| 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

SAN FRANCISCO AP, CA (SFO)

LATITUDE: 37° 37' 11" N LONGITUDE: 122° 23' 53" W ELEVATION (FT): GRND: 8 BARO: 90 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 23234

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 55.6 | 59.4 | 60.8 | 63.9 | 66.5 | 70.3 | 71.6 | 72.3 | 73.6 | 70.1 | 62.4 | 56.1 | 65.2 |
| | MEAN DAILY MAXIMUM | 52 | 55.6 | 59.1 | 61.0 | 63.9 | 66.5 | 69.9 | 71.3 | 71.9 | 73.4 | 70.2 | 62.9 | 56.3 | 65.2 |
| | HIGHEST DAILY MAXIMUM | 70 | 72 | 78 | 85 | 92 | 97 | 106 | 105 | 100 | 103 | 99 | 85 | 75 | 106 |
| | YEAR OF OCCURRENCE | | 1948 | 1930 | 1952 | 1989 | 1984 | 1961 | 1988 | 1993 | 1971 | 1987 | 1967 | 1958 | JUN 1961 |
| | MEAN OF EXTREME MAXS. | 52 | 64.5 | 68.5 | 72.9 | 78.9 | 84.1 | 88.2 | 86.7 | 85.9 | 90.0 | 86.1 | 74.2 | 64.5 | 78.7 |
| | NORMAL DAILY MINIMUM | 30 | 41.8 | 45.0 | 45.8 | 47.2 | 49.7 | 52.6 | 53.9 | 55.0 | 55.2 | 51.8 | 47.1 | 42.7 | 49.0 |
| | MEAN DAILY MINIMUM | 52 | 41.8 | 44.4 | 45.7 | 47.3 | 49.8 | 52.4 | 53.7 | 54.6 | 54.4 | 51.5 | 46.9 | 42.7 | 48.8 |
| | LOWEST DAILY MINIMUM | 70 | 24 | 25 | 30 | 31 | 36 | 41 | 43 | 42 | 38 | 34 | 25 | 20 | 20 |
| | YEAR OF OCCURRENCE | | 1928 | 1929 | 1929 | 1929 | 1929 | 1932 | 1928 | 1935 | 1929 | 1929 | 1931 | 1932 | DEC 1932 |
| | MEAN OF EXTREME MINS. | 52 | 33.2 | 36.6 | 38.6 | 41.2 | 44.5 | 48.0 | 49.9 | 50.6 | 49.3 | 44.9 | 38.8 | 34.5 | 42.5 |
| | NORMAL DRY BULB | 30 | 48.7 | 52.2 | 53.3 | 55.6 | 58.1 | 61.5 | 62.7 | 63.7 | 64.5 | 61.0 | 54.8 | 49.4 | 57.1 |
| | MEAN DRY BULB | 52 | 48.7 | 51.8 | 53.4 | 55.6 | 58.2 | 61.2 | 62.5 | 63.3 | 63.9 | 60.9 | 54.9 | 49.5 | 57.0 |
| | MEAN WET BULB | 14 | 46.9 | 48.8 | 50.4 | 51.6 | 53.4 | 55.2 | 57.2 | 57.8 | 57.1 | 55.2 | 50.6 | 46.5 | 52.6 |
| | MEAN DEW POINT | 14 | 43.5 | 45.0 | 46.3 | 47.1 | 48.8 | 50.6 | 53.1 | 54.1 | 53.4 | 50.8 | 46.0 | 42.6 | 48.4 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 0.9 | 0.7 | 0.3 | 1.4 | 0.4 | 0.0 | 0.0 | 4.2 | |
| 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 | 0.0 | 0.0 | |
| MINIMUM ≤ 32° | 30 | 1.2 | 0.1 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.3 | |
| 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 | 505 | 358 | 363 | 287 | 218 | 121 | 92 | 68 | 79 | 135 | 306 | 484 | 3016 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 5 | 0 | 16 | 21 | 28 | 64 | 11 | 0 | 0 | 145 |
| RH | NORMAL (PERCENT) | 30 | 78 | 76 | 73 | 71 | 71 | 71 | 73 | 74 | 72 | 72 | 75 | 78 | 74 |
| | HOUR 04 LST | 30 | 86 | 84 | 81 | 81 | 83 | 84 | 86 | 86 | 83 | 82 | 84 | 85 | 84 |
| | HOUR 10 LST | 30 | 79 | 75 | 70 | 65 | 63 | 63 | 65 | 67 | 65 | 68 | 72 | 77 | 69 |
| | HOUR 16 LST | 30 | 66 | 64 | 62 | 59 | 59 | 58 | 59 | 61 | 58 | 59 | 63 | 67 | 61 |
| | HOUR 22 LST | 30 | 80 | 78 | 77 | 76 | 78 | 79 | 82 | 82 | 78 | 77 | 77 | 80 | 79 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 60 | 3.5 | 2.6 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.6 | 1.3 | 2.1 | 3.0 | 13.9 |
| | THUNDERSTORMS | 70 | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 2.5 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 55 | 5.0 | 5.0 | 4.6 | 4.2 | 3.6 | 3.0 | 2.4 | 2.6 | 2.6 | 3.1 | 4.2 | 4.7 | 3.8 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 4.7 | 4.9 | 4.6 | 3.9 | 3.4 | 3.2 | 2.6 | 2.8 | 2.6 | 3.0 | 4.0 | 4.3 | 3.7 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 69 | 8.5 | 7.8 | 9.5 | 10.8 | 13.5 | 16.2 | 20.3 | 18.8 | 17.9 | 15.5 | 11.1 | 9.4 | 159.3 |
| PARTLY CLOUDY | 69 | 7.5 | 7.3 | 8.7 | 9.3 | 9.7 | 8.6 | 7.5 | 8.6 | 8.2 | 8.9 | 8.3 | 7.5 | 100.1 | |
| CLOUDY | 69 | 15.0 | 13.1 | 12.8 | 9.9 | 7.8 | 5.2 | 2.8 | 3.3 | 3.6 | 6.5 | 10.6 | 14.1 | 104.7 | |
| PR | MEAN STATION PRESSURE (IN) | 25 | 30.09 | 30.06 | 30.03 | 30.03 | 29.97 | 29.95 | 29.95 | 29.94 | 29.93 | 30.00 | 30.08 | 30.11 | 30.01 |
| | MEAN SEA-LEVEL PRES. (IN) | 14 | 30.13 | 30.08 | 30.06 | 30.05 | 30.00 | 29.96 | 29.96 | 29.96 | 29.95 | 30.01 | 30.11 | 30.12 | 30.03 |
| WINDS | MEAN SPEED (MPH) | 39 | 7.7 | 9.0 | 11.0 | 12.5 | 13.9 | 14.2 | 13.7 | 12.8 | 11.5 | 9.7 | 8.1 | 7.9 | 11.0 |
| | PREVAIL. DIR (TENS OF DEGS) | 23 | 30 | 30 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 1 | 43 | 43 | 37 | 44 | 37 | 43 | 38 | 32 | 32 | 40 | 31 | 39 | 44 |
| | DIR. (TENS OF DEGS) | | 17 | 01 | 26 | 26 | 26 | 26 | 26 | 18 | 26 | 26 | 11 | 34 | 26 |
| | YEAR OF OCCURRENCE | | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | APR 1997 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 1 | 56 | 48 | 46 | 52 | 44 | 53 | 44 | 38 | 39 | 49 | 36 | 45 | 56 | |
| DIR. (TENS OF DEGS) | | 16 | 27 | 26 | 27 | 26 | 26 | 26 | 19 | 25 | 29 | 24 | 34 | 16 | |
| YEAR OF OCCURRENCE | | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | JAN 1997 | |
| PRECIPITATION | NORMAL (IN) | 30 | 4.35 | 3.17 | 3.06 | 1.37 | 0.19 | 0.11 | 0.03 | 0.05 | 0.20 | 1.22 | 2.86 | 3.09 | 19.70 |
| | MAXIMUM MONTHLY (IN) | 70 | 11.26 | 9.52 | 9.01 | 6.36 | 3.81 | 0.86 | 0.35 | 0.66 | 2.30 | 7.30 | 12.30 | 12.30 | 12.30 |
| | YEAR OF OCCURRENCE | | 1993 | 1958 | 1958 | 1958 | 1957 | 1967 | 1977 | 1976 | 1959 | 1962 | 1973 | 1955 | DEC 1955 |
| | MINIMUM MONTHLY (IN) | 70 | 0.24 | T | T | T | T | 0.00 | 0.00 | 0.00 | T | T | 0.00 | 0.01 | 0.00 |
| | YEAR OF OCCURRENCE | | 1991 | 1953 | 1934 | 1977 | 1992 | 1928 | 1930 | 1996 | 1995 | 1978 | 1929 | 1989 | AUG 1996 |
| | MAXIMUM IN 24 HOURS (IN) | 70 | 5.71 | 2.64 | 2.46 | 2.66 | 1.54 | 0.83 | 0.35 | 0.60 | 2.30 | 3.74 | 2.43 | 3.33 | 5.71 |
| | YEAR OF OCCURRENCE | | 1982 | 1987 | 1982 | 1958 | 1957 | 1967 | 1977 | 1997 | 1959 | 1962 | 1994 | 1955 | JAN 1982 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 9.8 | 8.9 | 10.4 | 6.1 | 2.3 | 0.7 | 0.4 | 0.6 | 1.4 | 3.6 | 8.1 | 9.4 | 61.7 | |
| PRECIPITATION ≥ 1.00 | 30 | 1.4 | 0.8 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.6 | 0.7 | 4.6 | |
| 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 | T | 0.1 |
| | MAXIMUM MONTHLY (IN) | 69 | 1.5 | T | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 |
| | YEAR OF OCCURRENCE | | 1962 | 1996 | 1995 | | | | | | | | | 1932 | JAN 1962 |
| | MAXIMUM IN 24 HOURS (IN) | 69 | 1.5 | T | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 |
| | YEAR OF OCCURRENCE | | 1962 | 1996 | 1995 | 1987 | | | | | | | | 1932 | JAN 1962 |
| | MAXIMUM SNOW DEPTH (IN) | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YEAR OF OCCURRENCE | | | | | | | | | | | | | | |
| 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 | 0.0 | |

PRECIPITATION (inches) 1997 SAN FRANCISCO, CALIFORNIA CA (SFO)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968 | 5.25 | 1.44 | 3.03 | 0.55 | 0.28 | T | T | 0.06 | T | 0.45 | 2.47 | 4.49 | 18.02 |
| 1969 | 8.92 | 8.62 | 1.34 | 1.87 | T | 0.06 | T | T | 0.02 | 1.96 | 0.69 | 4.59 | 28.07 |
| 1970 | 8.33 | 2.18 | 1.22 | 0.22 | 0.01 | 0.36 | T | T | T | 0.75 | 6.41 | 6.21 | 25.69 |
| 1971 | 1.27 | 0.26 | 2.68 | 0.77 | 0.25 | T | T | T | 0.11 | 0.03 | 0.99 | 3.44 | 9.80 |
| 1972 | 1.09 | 1.35 | 0.18 | 1.20 | T | 0.06 | T | T | 0.30 | 5.24 | 5.15 | 2.40 | 16.97 |
| 1973 | 8.32 | 6.82 | 2.93 | 0.11 | 0.07 | T | T | T | 0.04 | 1.60 | 7.94 | 3.55 | 31.38 |
| 1974 | 3.21 | 1.70 | 4.21 | 2.32 | T | 0.14 | 0.23 | T | T | 0.93 | 0.50 | 2.36 | 15.60 |
| 1975 | 2.60 | 3.94 | 5.91 | 1.66 | 0.02 | 0.04 | 0.13 | 0.21 | T | 2.27 | 0.26 | 0.21 | 17.25 |
| 1976 | 0.37 | 2.13 | 1.22 | 0.92 | T | 0.01 | T | 0.66 | 0.30 | 0.34 | 1.37 | 2.70 | 10.02 |
| 1977 | 2.22 | 1.04 | 2.01 | T | 0.41 | T | 0.35 | T | 0.47 | 0.15 | 2.20 | 3.69 | 12.54 |
| 1978 | 8.90 | 4.92 | 4.90 | 4.50 | 0.02 | T | T | T | 0.26 | T | 1.67 | 0.64 | 25.81 |
| 1979 | 6.61 | 5.87 | 2.74 | 0.69 | 0.13 | T | 0.09 | T | T | 2.20 | 1.94 | 4.30 | 24.57 |
| 1980 | 4.85 | 7.62 | 2.65 | 0.90 | 0.24 | 0.03 | 0.10 | T | T | 0.10 | 0.12 | 1.73 | 18.34 |
| 1981 | 5.92 | 2.21 | 3.60 | 0.24 | 0.07 | T | T | T | 0.28 | 2.35 | 4.89 | 3.91 | 23.47 |
| 1982 | 8.81 | 2.82 | 7.63 | 3.25 | T | 0.06 | T | T | 0.96 | 1.95 | 5.34 | 3.99 | 34.81 |
| 1983 | 6.83 | 6.64 | 8.50 | 3.11 | 0.32 | T | 0.01 | T | 0.57 | 0.10 | 6.03 | 6.23 | 38.34 |
| 1984 | 0.46 | 1.47 | 1.36 | 0.68 | T | 0.03 | T | 0.11 | 0.05 | 1.96 | 6.12 | 1.89 | 14.13 |
| 1985 | 0.74 | 2.35 | 3.30 | 0.12 | 0.05 | 0.29 | 0.03 | 0.02 | 0.18 | 0.69 | 3.19 | 1.61 | 12.57 |
| 1986 | 4.04 | 8.09 | 5.84 | 0.39 | 0.15 | T | 0.01 | T | 0.47 | 0.02 | 0.06 | 1.66 | 20.73 |
| 1987 | 2.80 | 3.52 | 1.98 | 0.16 | 0.06 | T | T | T | T | 0.93 | 1.64 | 4.51 | 15.60 |
| 1988 | 3.92 | 0.38 | 0.05 | 2.02 | 0.29 | 0.60 | T | T | 0.03 | 0.42 | 2.31 | 3.65 | 13.67 |
| 1989 | 1.25 | 1.28 | 4.00 | 0.78 | 0.04 | 0.01 | T | T | 1.24 | 1.40 | 1.34 | 0.01 | 11.35 |
| 1990 | 3.06 | 2.28 | 0.79 | 0.20 | 1.55 | T | 0.01 | T | 0.20 | 0.19 | 0.28 | 1.79 | 10.35 |
| 1991 | 0.24 | 3.76 | 6.07 | 0.61 | 0.21 | 0.11 | T | 0.27 | 0.04 | 1.73 | 0.23 | 2.70 | 15.97 |
| 1992 | 2.04 | 6.44 | 4.12 | 0.25 | T | 0.39 | 0.00 | 0.14 | T | 1.12 | 0.15 | 6.04 | 20.69 |
| 1993 | 11.26 | 4.68 | 2.34 | 0.41 | 0.55 | 0.16 | T | T | T | 0.45 | 1.47 | 2.19 | 23.51 |
| 1994 | 2.50 | 5.26 | 0.24 | 1.12 | 1.52 | 0.03 | T | T | 0.10 | 0.33 | 5.73 | 2.49 | 19.32 |
| 1995 | 8.89 | 0.38 | 8.75 | 1.41 | 0.93 | 0.60 | T | T | T | 0.03 | 0.02 | 6.41 | 27.42 |
| 1996 | 6.92 | 6.03 | 2.89 | 1.40 | 1.24 | T | T | 0.00 | T | 0.76 | 2.56 | 6.97 | 28.77 |
| 1997 | 7.52 | 0.31 | 0.25 | 0.30 | 0.21 | 0.24 | T | 0.60 | T | 0.68 | 6.41 | 3.87 | 20.39 |
| POR= 70 YRS | 4.28 | 3.32 | 2.95 | 1.29 | 0.36 | 0.13 | 0.00 | 0.01 | 0.10 | 0.90 | 2.17 | 3.55 | 19.06 |

WBAN : 23234

AVERAGE TEMPERATURE (°F) 1997 SAN FRANCISCO, CALIFORNIA CA (SFO)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1968 | 46.5 | 54.5 | 54.5 | 54.9 | 56.3 | 61.3 | 61.9 | 64.8 | 64.2 | 59.5 | 54.4 | 47.8 | 56.7 |
| 1969 | 47.1 | 48.9 | 52.1 | 54.0 | 59.5 | 61.1 | 62.3 | 63.0 | 63.9 | 61.2 | 56.1 | 53.7 | 56.9 |
| 1970 | 52.4 | 54.8 | 56.3 | 53.7 | 60.5 | 60.5 | 62.9 | 61.6 | 65.4 | 58.5 | 55.9 | 48.7 | 57.6 |
| 1971 | 48.3 | 50.0 | 52.1 | 53.0 | 56.4 | 60.1 | 60.7 | 65.2 | 66.2 | 57.0 | 53.2 | 46.1 | 55.7 |
| 1972 | 45.6 | 52.0 | 55.3 | 55.4 | 57.6 | 60.9 | 64.3 | 64.0 | 62.6 | 61.0 | 53.2 | 44.9 | 56.4 |
| 1973 | 48.0 | 52.9 | 51.4 | 56.7 | 58.7 | 63.5 | 62.1 | 60.7 | 63.5 | 60.7 | 53.9 | 50.0 | 56.8 |
| 1974 | 48.6 | 49.7 | 53.4 | 54.8 | 56.2 | 60.4 | 63.0 | 63.7 | 62.5 | 62.0 | 53.8 | 48.6 | 56.4 |
| 1975 | 47.4 | 50.9 | 51.4 | 50.6 | 58.4 | 59.8 | 61.8 | 63.0 | 61.4 | 58.8 | 52.2 | 49.3 | 55.4 |
| 1976 | 48.5 | 50.5 | 51.0 | 53.3 | 58.3 | 63.2 | 62.5 | 64.3 | 63.3 | 61.3 | 57.0 | 48.8 | 56.8 |
| 1977 | 47.0 | 53.2 | 50.9 | 55.5 | 55.8 | 60.4 | 62.4 | 64.1 | 63.5 | 60.5 | 55.3 | 52.3 | 56.7 |
| 1978 | 52.5 | 52.8 | 57.0 | 54.9 | 60.4 | 60.4 | 61.4 | 63.2 | 65.8 | 61.1 | 52.5 | 46.0 | 57.3 |
| 1979 | 47.5 | 50.3 | 54.5 | 55.5 | 60.4 | 61.0 | 63.8 | 63.7 | 67.3 | 62.6 | 54.1 | 50.9 | 57.6 |
| 1980 | 50.5 | 54.4 | 53.0 | 55.9 | 56.3 | 59.9 | 63.0 | 61.5 | 63.2 | 61.2 | 55.6 | 50.7 | 57.1 |
| 1981 | 51.1 | 54.0 | 53.2 | 56.2 | 59.0 | 65.0 | 61.7 | 63.0 | 62.7 | 58.6 | 56.3 | 52.2 | 57.8 |
| 1982 | 45.1 | 51.7 | 51.3 | 54.6 | 57.4 | 59.7 | 61.7 | 63.3 | 64.0 | 61.1 | 52.3 | 48.9 | 55.9 |
| 1983 | 48.0 | 53.4 | 54.1 | 54.7 | 57.8 | 61.5 | 65.1 | 66.9 | 68.3 | 64.4 | 55.5 | 53.4 | 58.6 |
| 1984 | 51.3 | 52.9 | 57.0 | 56.0 | 61.8 | 61.3 | 65.6 | 64.4 | 69.7 | 60.4 | 53.8 | 47.7 | 58.5 |
| 1985 | 46.4 | 51.6 | 51.4 | 59.0 | 58.6 | 65.2 | 64.8 | 64.0 | 63.2 | 60.7 | 52.0 | 47.1 | 57.0 |
| 1986 | 53.7 | 56.3 | 57.1 | 56.2 | 58.6 | 62.5 | 62.4 | 61.2 | 62.9 | 61.4 | 57.1 | 50.3 | 58.3 |
| 1987 | 49.3 | 53.3 | 54.9 | 59.2 | 61.6 | 62.4 | 63.1 | 65.1 | 64.0 | 63.9 | 57.0 | 50.5 | 58.7 |
| 1988 | 50.6 | 54.5 | 56.5 | 58.1 | 59.5 | 62.5 | 65.3 | 65.0 | 63.1 | 61.4 | 56.5 | 50.4 | 58.6 |
| 1989 | 48.3 | 48.4 | 54.9 | 60.8 | 59.8 | 62.7 | 62.8 | 64.0 | 61.4 | 60.8 | 56.4 | 50.1 | 57.5 |
| 1990 | 49.9 | 49.2 | 53.3 | 58.5 | 59.0 | 62.4 | 64.5 | 66.3 | 66.4 | 63.1 | 56.0 | 46.4 | 57.9 |
| 1991 | 50.1 | 55.3 | 52.2 | 55.7 | 56.9 | 59.4 | 63.7 | 64.4 | 62.9 | 62.8 | 57.5 | 50.8 | 57.6 |
| 1992 | 48.9 | 56.1 | 57.4 | 60.6 | 63.4 | 63.6 | 65.8 | 63.8 | 65.3 | 65.4 | 56.8 | 49.8 | 59.7 |
| 1993 | 49.3 | 52.5 | 57.5 | 58.1 | 62.2 | 64.8 | 64.8 | 67.3 | 63.1 | 63.4 | 56.3 | 50.1 | 59.1 |
| 1994 | 51.5 | 50.6 | 56.0 | 56.8 | 58.5 | 61.5 | 62.1 | 64.5 | 64.1 | 60.1 | 49.9 | 48.0 | 57.0 |
| 1995 | 52.2 | 54.1 | 53.9 | 55.0 | 57.0 | 60.8 | 64.8 | 63.0 | 63.2 | 62.5 | 58.4 | 53.7 | 58.2 |
| 1996 | 51.8 | 54.9 | 56.0 | 59.1 | 60.4 | 61.5 | 63.2 | 62.7 | 63.0 | 60.9 | 56.3 | 53.9 | 58.6 |
| 1997 | 50.9 | 53.4 | 56.1 | 58.2 | 64.4 | 62.3 | 64.0 | 66.9 | 68.3 | 61.8 | 57.7 | 51.1 | 59.6 |
| POR= 70 YRS | 48.5 | 51.5 | 53.3 | 55.2 | 57.9 | 60.8 | 62.1 | 62.7 | 63.4 | 60.5 | 54.6 | 49.6 | 56.7 |

HEATING DEGREE DAYS (base 65°F) 1997 SAN FRANCISCO, CALIFORNIA CA (SFO)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1968-69 | 108 | 42 | 56 | 167 | 311 | 525 | 547 | 443 | 391 | 322 | 167 | 113 | 3192 |
| 1969-70 | 86 | 70 | 54 | 113 | 261 | 341 | 384 | 277 | 260 | 331 | 168 | 133 | 2478 |
| 1970-71 | 92 | 117 | 59 | 203 | 265 | 495 | 513 | 414 | 394 | 354 | 258 | 154 | 3318 |
| 1971-72 | 133 | 21 | 47 | 252 | 349 | 579 | 594 | 368 | 294 | 282 | 226 | 135 | 3280 |
| 1972-73 | 64 | 42 | 75 | 131 | 350 | 613 | 521 | 334 | 416 | 241 | 197 | 103 | 3087 |
| 1973-74 | 100 | 129 | 76 | 128 | 327 | 459 | 501 | 424 | 354 | 298 | 270 | 145 | 3211 |
| 1974-75 | 83 | 54 | 101 | 117 | 329 | 499 | 540 | 387 | 415 | 424 | 220 | 151 | 3320 |
| 1975-76 | 109 | 75 | 120 | 188 | 377 | 480 | 504 | 415 | 427 | 344 | 222 | 136 | 3397 |
| 1976-77 | 72 | 38 | 79 | 127 | 231 | 494 | 549 | 326 | 432 | 278 | 278 | 141 | 3045 |
| 1977-78 | 103 | 48 | 55 | 139 | 284 | 385 | 381 | 335 | 238 | 295 | 161 | 135 | 2559 |
| 1978-79 | 111 | 65 | 32 | 143 | 371 | 581 | 536 | 406 | 319 | 277 | 148 | 132 | 3121 |
| 1979-80 | 55 | 56 | 13 | 85 | 320 | 431 | 441 | 298 | 366 | 269 | 261 | 155 | 2750 |
| 1980-81 | 76 | 109 | 74 | 145 | 275 | 436 | 424 | 301 | 358 | 279 | 180 | 53 | 2710 |
| 1981-82 | 112 | 65 | 71 | 197 | 252 | 389 | 611 | 364 | 416 | 307 | 241 | 154 | 3179 |
| 1982-83 | 100 | 63 | 47 | 130 | 376 | 491 | 521 | 322 | 330 | 301 | 225 | 113 | 3019 |
| 1983-84 | 33 | 1 | 18 | 43 | 281 | 354 | 415 | 342 | 242 | 269 | 124 | 115 | 2237 |
| 1984-85 | 43 | 34 | 5 | 147 | 328 | 527 | 570 | 370 | 416 | 180 | 192 | 27 | 2839 |
| 1985-86 | 49 | 51 | 60 | 158 | 382 | 546 | 343 | 236 | 239 | 260 | 191 | 78 | 2593 |
| 1986-87 | 77 | 113 | 62 | 122 | 228 | 447 | 477 | 320 | 309 | 168 | 128 | 85 | 2536 |
| 1987-88 | 60 | 16 | 40 | 70 | 233 | 445 | 440 | 296 | 259 | 212 | 184 | 78 | 2333 |
| 1988-89 | 40 | 29 | 71 | 128 | 246 | 447 | 511 | 455 | 308 | 162 | 160 | 94 | 2651 |
| 1989-90 | 70 | 38 | 103 | 138 | 249 | 454 | 459 | 437 | 356 | 189 | 185 | 94 | 2772 |
| 1990-91 | 33 | 13 | 8 | 77 | 262 | 570 | 454 | 265 | 387 | 273 | 244 | 166 | 2752 |
| 1991-92 | 57 | 44 | 65 | 96 | 223 | 434 | 494 | 252 | 226 | 133 | 52 | 58 | 2134 |
| 1992-93 | 20 | 49 | 34 | 40 | 235 | 466 | 480 | 346 | 225 | 201 | 100 | 54 | 2250 |
| 1993-94 | 33 | 11 | 71 | 67 | 256 | 455 | 408 | 396 | 273 | 238 | 200 | 118 | 2526 |
| 1994-95 | 91 | 43 | 46 | 154 | 446 | 522 | 388 | 301 | 338 | 293 | 242 | 143 | 3007 |
| 1995-96 | 48 | 79 | 73 | 98 | 192 | 344 | 398 | 289 | 270 | 187 | 149 | 128 | 2255 |
| 1996-97 | 75 | 73 | 71 | 155 | 255 | 333 | 431 | 317 | 270 | 194 | 76 | 74 | 2324 |
| 1997- | 32 | 8 | 2 | 109 | 222 | 422 | | | | | | | |

WBAN : 23234

COOLING DEGREE DAYS (base 65°F) 1997 SAN FRANCISCO, CALIFORNIA CA (SFO)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0 | 0 | 0 | 0 | 3 | 3 | 8 | 15 | 26 | 2 | 0 | 0 | 57 |
| 1970 | 0 | 0 | 0 | 0 | 34 | 3 | 32 | 21 | 77 | 8 | 0 | 0 | 175 |
| 1971 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 34 | 91 | 11 | 0 | 0 | 153 |
| 1972 | 0 | 0 | 1 | 0 | 7 | 14 | 49 | 16 | 8 | 14 | 0 | 0 | 109 |
| 1973 | 0 | 0 | 0 | 0 | 7 | 64 | 18 | 2 | 37 | 1 | 0 | 0 | 129 |
| 1974 | 0 | 0 | 0 | 0 | 6 | 11 | 27 | 22 | 31 | 30 | 0 | 0 | 127 |
| 1975 | 0 | 0 | 0 | 0 | 21 | 4 | 15 | 19 | 19 | 2 | 0 | 0 | 80 |
| 1976 | 0 | 0 | 0 | 0 | 21 | 88 | 4 | 23 | 33 | 23 | 0 | 0 | 192 |
| 1977 | 0 | 0 | 0 | 0 | 0 | 10 | 30 | 26 | 17 | 5 | 0 | 0 | 88 |
| 1978 | 0 | 0 | 0 | 0 | 24 | 0 | 7 | 18 | 62 | 33 | 0 | 0 | 144 |
| 1979 | 0 | 0 | 0 | 0 | 11 | 19 | 25 | 21 | 88 | 18 | 0 | 0 | 182 |
| 1980 | 0 | 0 | 0 | 0 | 0 | 10 | 22 | 7 | 30 | 33 | 1 | 0 | 103 |
| 1981 | 0 | 0 | 0 | 17 | 1 | 61 | 17 | 7 | 7 | 3 | 0 | 0 | 113 |
| 1982 | 0 | 0 | 0 | 1 | 12 | 5 | 7 | 15 | 23 | 12 | 0 | 0 | 75 |
| 1983 | 0 | 0 | 0 | 0 | 7 | 16 | 42 | 66 | 119 | 32 | 0 | 0 | 282 |
| 1984 | 0 | 0 | 0 | 4 | 33 | 10 | 70 | 24 | 152 | 9 | 0 | 0 | 302 |
| 1985 | 0 | 0 | 0 | 8 | 1 | 38 | 50 | 28 | 11 | 33 | 0 | 0 | 169 |
| 1986 | 0 | 0 | 1 | 2 | 0 | 11 | 5 | 0 | 7 | 16 | 0 | 0 | 42 |
| 1987 | 0 | 0 | 0 | 4 | 29 | 15 | 9 | 26 | 17 | 43 | 0 | 0 | 143 |
| 1988 | 0 | 0 | 0 | 11 | 19 | 8 | 55 | 34 | 23 | 24 | 0 | 0 | 174 |
| 1989 | 0 | 0 | 0 | 40 | 6 | 35 | 8 | 15 | 2 | 16 | 0 | 0 | 122 |
| 1990 | 0 | 0 | 0 | 1 | 3 | 23 | 23 | 58 | 58 | 24 | 0 | 0 | 190 |
| 1991 | 0 | 0 | 0 | 0 | 0 | 6 | 21 | 29 | 13 | 33 | 2 | 0 | 104 |
| 1992 | 0 | 0 | 0 | 9 | 10 | 21 | 53 | 18 | 49 | 58 | 0 | 0 | 218 |
| 1993 | 0 | 0 | 0 | 0 | 18 | 58 | 33 | 91 | 19 | 26 | 1 | 0 | 246 |
| 1994 | 0 | 0 | 0 | 0 | 4 | 18 | 4 | 30 | 27 | 8 | 0 | 0 | 91 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 26 | 48 | 26 | 25 | 29 | 0 | 0 | 154 |
| 1996 | 0 | 0 | 0 | 18 | 16 | 30 | 22 | 9 | 21 | 36 | 0 | 0 | 152 |
| 1997 | 0 | 0 | 1 | 0 | 65 | 1 | 5 | 78 | 107 | 15 | 7 | 0 | 279 |

SNOWFALL (inches) 1997 SAN FRANCISCO, CALIFORNIA CA (SFO)

| 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 | 0.0 | 0.0 | 0.0 | T | 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 | T | 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 | T | 0.0 | 0.0 | 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 | T | 0.0 | 0.0 | 0.0 | T |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | 0.0 | 0.0 | T |
| 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 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 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 | T | T | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1990-91 | 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 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 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 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 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- | | | | | | | | | | | | | |
| POR= 68 YRS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | 0.0 | 0.0 | 0.0 |

WBAN : 23234

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
SAN FRANCISCO, CALIFORNIA
INTERNATIONAL AIRPORT (SFO)

The station is located in the central Terminal Building of the San Francisco International Airport, which is on flat filled tideland on the west shore of San Francisco Bay. The bay borders the airport from the north to the south-southeast. San Bruno Mountain, 5 miles to the north-northwest, rises to 1,300 feet. A north-south trending ridge of coastal mountains, 4 miles to the west, varies in elevation from 700 to 1,900 feet, being highest southward along the peninsula. The Pacific Ocean west of the ridge is 6 miles from the airport. A broad gap to the northwest of the station, between San Bruno Mountain and the coastal mountains, allows a strong flow of marine air over the station and dominate the local climate.

San Francisco Airport enjoys a marine-type climate characterized by mild and moderately wet winters and by dry, cool summers. Winter rains, occurring from November through March, account for over 80 percent of the annual rainfall, and measurable precipitation occurs on an average of 10 days per month during this period. However, there are frequent dry periods lasting well over a week. Severe winter storms with gale winds and heavy rains occur only occasionally. Thunderstorms average two a year and may occur in any month.

The daily and annual range in temperature is small. A few frosty mornings occur during the winter but the temperature seldom drops below freezing. Winter temperatures generally rise to the high 50s in the early afternoon.

The summer weather is dominated by a cool sea breeze resulting in an average summer wind speed of nearly 15 mph. Winds are light in the early morning but normally reach 20 to 25 mph in the afternoon.

A sea fog, arriving over the station during the late evening or night as a low cloud, is another persistent feature of the summer weather. This high fog, occasionally producing drizzle or mist, usually disappears during the late forenoon. Despite the morning overcast, summer days are sunny. On the average a total of only 14 days during the four months from June through September are classified as cloudy.

Daytime temperatures are held down both by the morning low overcast and the afternoon strengthening sea breeze, resulting in daily maximum readings averaging about 70 degrees from May through August. However, during these months occasional hot spells, lasting a few days, are experienced without the usual high fog and sea breeze. September, when the sea breeze becomes less pronounced, is the warmest month with highs in the 70s. Low temperatures during the summer are in the mid-50s.

A strong temperature inversion with its base usually about 1,500 feet persists throughout the summer. Inversions close to the ground are infrequent in summer but rather common in fall and winter. As a consequence of these factors and the continued population and economic growth of the area, atmospheric pollution has become a problem of increasing importance.

STATION LOCATION

SAN FRANCISCO, CALIFORNIA
INTERNATIONAL AIRPORT

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | NORTH | WEST | ELEVATION ABOVE | | | | | | | | | | | A U T O M A T I C S T A T I O N S * * | * Type M = AMOS T = AUTOB S = ASOS W = AWOS | REMARKS |
|--|---------------|-------------|---|---------|---------|-----------------|-----------------|-----------|------------|-----------------|-----------|------------|-----------------|-----------|-----------------|-----------------|---|---|---------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | | | |
| | | | | | | | WIND INSTRUMENT | BAROMETER | HYGROMETER | WIND INSTRUMENT | BAROMETER | HYGROMETER | WIND INSTRUMENT | BAROMETER | HYGROMETER | WIND INSTRUMENT | | | |
| Administration Building San Francisco Airport | 7/?/27 | 8/?/33 | | 37° 37' | 122°23' | 1 | 34 | 5 | 5 | | | | | | | | | 2nd Order Airway Station. | |
| Administration Building San Francisco Airport | 8/?/33 | 12/02/37 | No Change | 37° 37' | 122°23' | 1 | 43 | 28 | 28 | | | | | | | | | Instruments relocated. Office moved to 2nd floor. addition (Control Tower). | |
| Administration Building San Francisco Airport | 12/03/37 | 6/29/55 | No Change | 37° 37' | 122°23' | 1 | 70 | 41 | 41 | | | | a40 | 40 | b | | | New Administration Building on same site. 1st Order WB station established 12/22/38. a - Installed May 1944 b - Telepsychrometer (5') 3/14/50. | |
| New Terminal & Administration Building International Airport | 6/29/55 | 11/01/59 | .7 mi. SE | 37° 37' | 122°23' | 8 | 26 | 99 | 99 | | | 3 | 97 | 97 | * | | | * - Telepsychrometer (5'). | |
| New Terminal & Administration Building International Airport | 11/01/59 | 6/30/61 | No Change | 37° 37' | 122°23' | 8 | 21 | 99 | 99 | | | 3 | 97 | 97 | c | | | Wind equipment relocated to a site 4500 ft. ENE of Terminal Building. c - Telepsychrometer moved 2200' NNE of previous location. | |
| New Terminal & Administration Building International Airport | 6/30/61 | Present | No Change | 37° 37' | 122°23' | 8 | 20 g33 | 99 h98 | 99 h98 | NA | | 3 i3 | e97 | 97 | df4 i4 j4 | NA | | Tipping bucket rain gage relocated 1650 ft. ENE of Terminal Building. Wind equipment moved to site 4000 ft. E of Terminal Building. d - Hygrothermometer comm. 7/16/63 on telepsychrometer site. e - Decommissioned 7/14/69. f - Telepsychrometer decommissioned 7/14/63. g - Moved 2400' SE 3/10/81. h - Moved 5' NW 2/19/81. i - Moved 4800' SE 2/19/81. j - Moved 4850' WNW & type change 9/30/85. | |
| | | | | | | | | | | | | | | | S | | | ASOS Commissioned 10/01/96 | |

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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