

BAY AREA AIR POLLUTION SUMMARY — 2000

—See notes of explanation
on back of this page

| MONITORING STATIONS | OZONE | | | | CARBON MONOXIDE | | | NITROGEN DIOXIDE | | | SULFUR DIOXIDE | | | PM ₁₀ | | | | | | | | | |
|---|---|----------|-----------|-----------|---|----------|------------|------------------|----------|--------------|----------------|---------|--------------|------------------|---------|--------------|----------------------|---------|--|-------------|-------------|----------|--|
| | Max 1-Hr | Nat Days | Cal Days | 3-Yr Avg* | Max 8-Hr | Nat Days | 3-Yr Avg** | Max 1-Hr | Max 8-Hr | Nat/Cal Days | Max 1-Hr | Ann Avg | Nat/Cal Days | Max 24-Hr | Ann Avg | Nat/Cal Days | Ann Geo Mean | Ann Avg | Max 24-Hr | Nat Days*** | Cal Days*** | | |
| North Counties | (pphm) | | | | (pphm) | | | (ppm) | | | (pphm) | | | (ppb) | | | (µg/m ³) | | | | | | |
| Napa | 8 | 0 | 0 | 0.3 | 6 | 0 | 6.9 | 4.7 | 2.8 | 0 | 5 | 1.2 | 0 | - | - | - | 14.7 | 16.2 | 45 | 0 | 0 | | |
| San Rafael | 7 | 0 | 0 | 0.0 | 6 | 0 | 5.0 | 4.2 | 2.3 | 0 | 6 | 1.6 | 0 | - | - | - | 18.2 | 19.5 | 40 | 0 | 0 | | |
| Santa Rosa | 8 | 0 | 0 | 0.0 | 6 | 0 | 5.5 | 4.5 | 3.1 | 0 | 5 | 1.3 | 0 | - | - | - | 15.9 | 17.5 | 46 | 0 | 0 | | |
| Vallejo | 8 | 0 | 0 | 0.0 | 6 | 0 | 6.1 | 6.5 | 5.1 | 0 | 6 | 1.3 | 0 | 5 | 1.5 | 0 | 13.0 | 15.0 | 53 | 0 | 1 | | |
| Coast & Central Bay | | | | | | | | | | | | | | | | | | | | | | | |
| Oakland | 7 | 0 | 0 | 0.0 | 5 | 0 | 4.1 | 5.4 | 3.4 | 0 | - | - | - | - | - | - | - | - | - | - | - | | |
| San Francisco | 6 | 0 | 0 | 0.0 | 4 | 0 | 4.4 | 5.5 | 3.2 | 0 | 7 | 2.0 | 0 | 8 | 2.4 | 0 | 21.7 | 24.0 | 63 | 0 | 2 | | |
| San Pablo | 8 | 0 | 0 | 0.0 | 7 | 0 | 4.7 | 2.8 | 1.9 | 0 | 7 | 1.4 | 0 | 7 | 2.0 | 0 | - | - | - | - | - | | |
| Eastern District | | | | | | | | | | | | | | | | | | | | | | | |
| Bethel Island | 12 | 0 | 1 | 0.3 | 9 | 1 | 8.4 | 2.3 | 1.5 | 0 | 4 | 1.0 | 0 | 7 | 1.6 | 0 | 17.5 | 20.0 | 62 | 0 | 1 | | |
| Concord | 14 | 1 | 2 | 1.7 | 9 | 1 | 8.4 | 4.5 | 2.7 | 0 | 7 | 1.6 | 0 | 4 | 1.6 | 0 | 16.2 | 17.8 | 54 | 0 | 1 | | |
| Crockett | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | 2.5 | 0 | - | - | - | - | - | | |
| Fairfield | 10 | 0 | 1 | 0.3 | 8 | 0 | 8.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Livermore | 15 | 2 | 7 | 3.3 | 11 | 2 | 8.7 | 4.5 | 2.7 | 0 | 7 | 1.7 | 0 | - | - | - | 19.4 | 21.8 | 71 | 0 | 2 | | |
| Martinez | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1.1 | 0 | - | - | - | - | - | | |
| Pittsburg | 11 | 0 | 1 | 0.0 | 8 | 0 | 7.2 | 4.9 | 2.7 | 0 | 5 | 1.3 | 0 | 7 | 1.7 | 0 | 13.9 | 16.4 | 56 | 0 | 2 | | |
| South Central Bay | | | | | | | | | | | | | | | | | | | | | | | |
| Fremont | 10 | 0 | 2 | 0.3 | 8 | 0 | 6.3 | 4.6 | 2.7 | 0 | 8 | 2.0 | 0 | - | - | - | 19.4 | 21.5 | 58 | 0 | 1 | | |
| Hayward | 11 | 0 | 1 | 0.0 | 8 | 0 | 6.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Mountain View ¹ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Redwood City | 8 | 0 | 0 | 0.0 | 6 | 0 | 4.7 | 9.8 | 4.4 | 0 | 7 | 1.8 | 0 | - | - | - | 19.1 | 21.2 | 53 | 0 | 1 | | |
| San Leandro | 10 | 0 | 1 | 0.0 | 6 | 0 | 5.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Santa Clara Valley | | | | | | | | | | | | | | | | | | | | | | | |
| Gilroy ¹ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Los Gatos | 8 | 0 | 0 | 0.3 | 7 | 0 | 7.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| San Jose, 4th Street | 7 | 0 | 0 | 0.3 | 6 | 0 | 6.2 | 8.4 | 6.3 | 0 | 11 | 2.5 | 0 | - | - | - | 23.8 | 26.7 | 76 | 0 | 7 | | |
| San Jose East | 10 | 0 | 1 | 0.3 | 7 | 0 | 6.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| San Jose, Tully Road | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18.4 | 21.5 | 69 | 0 | 2 | | |
| San Martin | 11 | 0 | 4 | 1.3 | 10 | 1 | 8.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Total Bay Area Days over Standard | 3 | | 12 | | 4 | | | 0 | | | 0 | | | 0 | | | 0 | | | | | 7 | |
| ¹ Out of service in 2000 (see Notes on back) | *Average number of days of exceedence (see Notes on back) | | | | **Average of the fourth highest concentration (see Notes on back) | | | | | | | | | | | | | | ***PM ₁₀ measurements are based on a one in every six days sampling schedule, for a total of approximately 60 samples per year. | | | | |

NOTES

The annual Bay Area Air Pollution Summary summarizes measurements for the national and California time-averaged pollutant standards.

The national eight-hour average ozone standard, proposed in 1997, was remanded by the US Supreme Court to EPA in April 2001 pending the development of a new ozone implementation policy.

The Mountain View station was closed on November 30, 1999. It was replaced by a new monitoring station in Sunnyvale in 2001. The Gilroy station was closed for the year 2000 due to construction activity, but was reactivated in 2001.

Explanation of Terms

State and national excesses occur when pollutant concentrations surpass the indicated standards, with values in most cases rounded to the same number of decimal places.

MAX HR / MAX 8-HR / MAX 24-HR

The highest average contaminant concentration over a one-hour period, an eight-hour period, or a 24-hour period.

NAT DAYS

The number of days during the year for which the monitoring station recorded contaminant concentration levels in excess of the national standard.

CAL DAYS

The number of days during the year for which the station recorded contaminant levels in excess of the California standard.

3-YR AVG (1-hr ozone standard)

The average number of days per year in excess of the national ozone standard, based on the most recent three-year period. *An average higher than 1.0 means the region will be considered out of attainment by the EPA.*

3-YR AVG (8-hr ozone standard)

The average of the fourth highest 8-hour average ozone concentration for each monitoring station, based on the most recent three-year period. *A concentration greater than 8.5 means that the region will be considered out of attainment by the EPA.*

ANN AVG

The yearly average (arithmetic mean) of the readings taken at a given monitoring station.

ANN GEO MEAN

The annual geometric mean concentration level (used for PM₁₀). The geometric mean of *n* positive numbers is the *n*th root of their product.

PM₁₀

Particulate matter ten microns or smaller in size. PM₁₀ measurements are based on a one in every six days sampling schedule, for a total of approximately 60 samples per year.

TOTAL BAY AREA DAYS OVER STANDARD is not a sum of excesses at individual stations, but rather of the number of days for which excesses occurred at any one or more stations.

HEALTH-BASED AMBIENT AIR QUALITY STANDARDS

| Pollutant | Averaging Time | California Std | National Std |
|---------------------------|-----------------------|----------------------|-----------------------|
| Ozone | 1 Hour | 9 pphm | 12 pphm |
| | 8 Hour | — | 8 pphm |
| Carbon Monoxide | 1 Hour | 20 ppm | 35 ppm |
| | 8 Hour | 9.0 ppm | 9 ppm |
| Nitrogen Dioxide | 1 Hour | 25 pphm | — |
| | Annual | — | 5.3 pphm |
| Sulfur Dioxide | 24 Hour | 40 ppb | 140 ppb |
| | Annual | — | 30 ppb |
| Particulates < 10 microns | 24 Hour | 50 µg/m ³ | 150 µg/m ³ |
| | Annual | — | 50 µg/m ³ |
| | Annual Geometric Mean | 30 µg/m ³ | — |

Concentrations | ppm parts per million | pphm parts per hundred million | ppb parts per billion | µg/m³ micrograms per cubic meter

TEN-YEAR BAY AREA AIR QUALITY SUMMARY

| YEAR | OZONE | | | CARBON MONOXIDE | | | | Nitrogen Dioxide | Sulfur Dioxide | | PM ₁₀ | |
|------|-------------|-----|--------------|-----------------|-----|-------------|-----|------------------|----------------|-----|------------------|-------|
| | 1-Hr Nat | Cal | 8-Hr* Nat | 1-Hr Nat | Cal | 8-Hr Nat | Cal | 1-Hr Cal | 24-Hr Nat | Cal | 24-Hr Nat** | Cal** |
| 1991 | 2 | 23 | - | 0 | 0 | 4 | 5 | 0 | 0 | 0 | 2 | 18 |
| 1992 | 2 | 23 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 1993 | 3 | 19 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1994 | 2 | 13 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1995 | 11 | 28 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1996 | 8 | 34 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1997 | 0 | 8 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1998 | 8 | 29 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1999 | 3 | 20 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 2000 | 3 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |

*EPA proposed the 8-Hr standard in mid-1997 and it was remanded by the Supreme Court in 2001.

**PM₁₀ measurements are based on a one in every six days sampling schedule, for a total of approximately 60 samples per year.