

BAY AREA AIR POLLUTION SUMMARY — 2006

—See NOTES on
second page

| MONITORING STATIONS | OZONE | | | | | | CARBON MONOXIDE | | | NITROGEN DIOXIDE | | | SULFUR DIOXIDE | | | PM ₁₀ | | | | PM _{2.5} | | | | | |
|--|-----------|----------|--------------|----------|----------|----------|-----------------|----------|--------------|------------------|---------|--------------|----------------|---------|--------------|----------------------|-----------|----------|----------|----------------------|-----------|----------|----------------------|---------|----------|
| | Max 1-Hr | Cal Days | Max 8-Hr | Nat Days | Cal 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 Avg | Max 24-Hr | Nat Days | 3-Yr Avg | Cal Days | Max 24-Hr | Nat Days | 3-Yr Avg | Ann Avg | 3-Yr Avg |
| North Counties | (ppb) | | (ppb) | | | | (ppm) | | | (ppb) | | | (ppb) | | | (µg/m ³) | | | | (µg/m ³) | | | (µg/m ³) | | |
| Napa | 96 | 1 | 72 | 0 | 2 | 60 | 3.5 | 2.8 | 0 | 55 | 11 | 0 | - | - | - | 21.9 | 52 | 0 | 1 | - | - | - | - | - | - |
| San Rafael | 89 | 0 | 58 | 0 | 0 | 50 | 2.6 | 1.5 | 0 | 54 | 14 | 0 | - | - | - | 18.1 | 68 | 0 | 1 | - | - | - | - | - | - |
| Santa Rosa | 77 | 0 | 58 | 0 | 0 | 47 | 2.4 | 1.7 | 0 | 44 | 11 | 0 | - | - | - | 18.8 | 90 | 0 | 2 | 59.0 | 1 | 28.7 | 9.2 | 8.3 | |
| Vallejo | 80 | 0 | 69 | 0 | 0 | 57 | 3.7 | 2.9 | 0 | 55 | 12 | 0 | 4 | 1.0 | 0 | 19.8 | 50 | 0 | 0 | 42.2 | 2 | 35.6 | 9.8 | 10.2 | |
| Coast & Central Bay | | | | | | | | | | | | | | | | | | | | | | | | | |
| Richmond | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1.6 | 0 | - | - | - | - | - | - | - | - | - | - |
| San Francisco | 53 | 0 | 46 | 0 | 0 | 45 | 2.7 | 2.1 | 0 | 107 | 16 | 0 | 6 | 1.3 | 0 | 22.9 | 61 | 0 | 3 | 54.3 | 3 | 30.9 | 9.7 | 9.7 | |
| San Pablo | 61 | 0 | 50 | 0 | 0 | 48 | 2.5 | 1.4 | 0 | 55 | 13 | 0 | 5 | 1.6 | 0 | 21.3 | 62 | 0 | 2 | - | - | - | - | - | |
| Eastern District | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bethel Island | 116 | 9 | 90 | 1 | 14 | 73 | 1.3 | 1.0 | 0 | 44 | 8 | 0 | 7 | 2.1 | 0 | 19.4 | 84 | 0 | 1 | - | - | - | - | - | |
| Concord | 117 | 8 | 92 | 4 | 14 | 74 | 1.7 | 1.3 | 0 | 47 | 11 | 0 | 7 | 0.8 | 0 | 18.5 | 81 | 0 | 3 | 62.1 | 5 | 35.0 | 9.3 | 9.7 | |
| Crockett* | - | - | - | - | - | - | - | - | - | - | - | - | 8* | 1.8* | 0* | - | - | - | - | - | - | - | - | - | - |
| Fairfield | 106 | 3 | 87 | 1 | 8 | 69 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Livermore | 127 | 13 | 101 | 5 | 15 | 80 | 3.3 | 1.8 | 0 | 64 | 14 | 0 | - | - | - | 21.8 | 69 | 0 | 3 | 50.8 | 3 | 33.5 | 9.8 | 9.7 | |
| Martinez | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 1.9 | 0 | - | - | - | - | - | - | - | - | - | - |
| Pittsburg | 105 | 3 | 93 | 1 | 10 | 70 | 3.3 | 1.9 | 0 | 52 | 11 | 0 | 9 | 2.4 | 0 | 19.9 | 59 | 0 | 2 | - | - | - | - | - | |
| South Central Bay | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fremont | 102 | 4 | 74 | 0 | 3 | 60 | 2.9 | 1.8 | 0 | 63 | 15 | 0 | - | - | - | 20.0 | 57 | 0 | 1 | 43.9 | 2 | 30.3 | 10.3 | 9.6 | |
| Hayward* | 101 | 2 | 71 | 0 | 1 | * | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Redwood City | 85 | 0 | 63 | 0 | 0 | 53 | 5.5 | 2.4 | 0 | 69 | 14 | 0 | - | - | - | 19.8 | 70 | 0 | 2 | 75.3 | 1 | 29.4 | 9.6 | 9.2 | |
| San Leandro | 88 | 0 | 66 | 0 | 0 | 53 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Santa Clara Valley | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gilroy | 120 | 4 | 101 | 2 | 8 | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Los Gatos | 116 | 7 | 87 | 4 | 11 | 73 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| San Jose Central | 118 | 5 | 87 | 1 | 5 | 63 | 4.1 | 2.9 | 0 | 74 | 18 | 0 | - | - | - | 21.0 | 73 | 0 | 2 | 64.4 | 6 | 38.5 | 10.8 | 11.4 | |
| San Jose, Tully Road* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 35.0* | 106* | 0 | 13* | 30.6* | 0* | * | * | * | |
| San Martin | 123 | 7 | 105 | 5 | 11 | 76 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Sunnyvale | 106 | 3 | 78 | 0 | 1 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total Bay Area Days over Standard | 18 | | 12 22 | | | | 0 | | | 0 | | | 0 | | | 0 15 | | | | 10 | | | | | |

*See NOTES on second page

2006 NOTES

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

*Station Information (see asterisks on front page)

Crockett was closed from March 27, 2005 to March 3, 2006 due to construction on site.

Hayward was closed part of 2005 due to construction on site. There was insufficient data for calculating three-year average ozone statistics.

San Jose-Tully PM_{2.5} monitoring was discontinued on September 30, 2006 in preparation for moving the monitor to Gilroy in 2007, so there was insufficient data for calculating annual and three-year average PM_{2.5} statistics. There was also construction activity near the site, which the Air District believes affected PM₁₀ measurements.

Explanation of Terms

State and national excesses occur when pollutant concentrations surpass the indicated standards. For comparison, values in ppb must be converted to ppm and rounded to the same number of decimal places as the original standard.

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

The highest average contaminant concentration over a one-hour period, an eight-hour period (on any given day), or a 24-hour period (from midnight to midnight).

ANN AVG

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

NAT DAYS

The number of days during the year for which the monitoring station recorded contaminant concentrations 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.

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

3-YR AVG (Nat. 8-hr ozone standard)

The 3-year average of the fourth highest 8-hour average ozone concentration for each monitoring station. A 3-year average greater than 84 ppb at any monitoring station means

that the region does not meet the standard and may be designated non-attainment by the EPA.

PM₁₀

Particulate matter ten microns or smaller in size. (PM₁₀ is only sampled every sixth day. Actual days over standard can be estimated to be six times the number shown.)

PM_{2.5}

Particulate matter 2.5 microns or smaller in size. PM_{2.5} is a sub-category of PM₁₀.

PM₁₀ ANN AVG and MAX 24-HR

This table shows PM₁₀ data reported at local temperature and pressure conditions, according to the California standards. National PM₁₀ data is converted to standard temperature and pressure conditions, which generally results in slightly lower readings.

3-YR AVG (PM_{2.5} 24-hour standard)

The 3-year average of the annual 98th percentiles of the individual 24-hour concentrations of PM_{2.5}. A 3-year average greater than 35 µg/m³ at any monitoring station means that the region does not meet the standard and may be designated non-attainment by the EPA.

3-YR AVG (PM_{2.5} annual standard)

The 3-year average of the quarterly averages of PM_{2.5}. A 3-year average greater than 15 µg/m³ at any monitoring station means that the region does not meet the standard and may be designated non-attainment by the EPA.

HEALTH-BASED AMBIENT AIR QUALITY STANDARDS

| Pollutant | Averaging Time | California Std | National Std |
|-----------------------------------|----------------------|----------------------|-----------------------|
| Ozone | 1 Hour | 0.09 ppm | — |
| | 8 Hour | 0.070 ppm | 0.08 ppm |
| Carbon Monoxide | 1 Hour | 20 ppm | 35 ppm |
| | 8 Hour | 9.0 ppm | 9 ppm |
| Nitrogen Dioxide | 1 Hour | 0.25 ppm | — |
| | Annual | — | 0.053 ppm |
| Sulfur Dioxide | 24 Hour | 0.04 ppm | 0.14 ppm |
| | Annual | — | 0.03 ppm |
| Particulates ≤ 10 microns | 24 Hour | 50 µg/m ³ | 150 µg/m ³ |
| | Annual ¹ | 20 µg/m ³ | — |
| Particulates ≤ 2.5 microns | 24 Hour ¹ | — | 35 µg/m ³ |
| | Annual | 12 µg/m ³ | 15 µg/m ³ |

¹On Dec. 17, 2006, the U.S. EPA implemented a more stringent national 24-hour PM_{2.5} standard—revising it from 65 µg/m³ to 35 µg/m³—and revoked the national annual average PM₁₀ standard. PM_{2.5} exceedance days for 2006 reflect the new standard.

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

TEN-YEAR BAY AREA AIR QUALITY SUMMARY

DAYS OVER STANDARDS

| YEAR | OZONE | | | CARBON MONOXIDE | | Nitrogen Dioxide | Sulfur Dioxide | PM ₁₀ | | PM _{2.5} | |
|------|-------|------|------|-----------------|------|------------------|----------------|------------------|-----|-------------------|----|
| | 8-Hr | 1-Hr | 8-Hr | 1-Hr | 8-Hr | 1-Hr | 24-Hr | 24-Hr* | | 24-Hr** | |
| | Nat | | Cal | Nat | Cal | Cal | Nat | Cal | Nat | Cal | |
| 1997 | - | 8 | - | 0 | 0 | 0 | 0 | 0 | 0 | 4 | - |
| 1998 | 16 | 29 | - | 0 | 0 | 0 | 0 | 0 | 0 | 5 | - |
| 1999 | 9 | 20 | - | 0 | 0 | 0 | 0 | 0 | 0 | 12 | - |
| 2000 | 4 | 12 | - | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 |
| 2001 | 7 | 15 | - | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 5 |
| 2002 | 7 | 16 | - | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 |
| 2003 | 7 | 19 | - | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 2004 | 0 | 7 | - | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 |
| 2005 | 1 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 2006 | 12 | 18 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 10 |

*PM₁₀ is sampled every sixth day—actual days over standard can be estimated to be six times the numbers listed.

**2000 was the first complete year of PM_{2.5} data.