BAY AREA AIR POLLUTION SUMMARY — 2001

—See notes of explanation on back of this page

MONITORING STATIONS	OZON				IE			CARBON MONOXIDE		NITROGEN DIOXIDE		SULFUR DIOXIDE			PM ₁₀						
	Max 1-Hr	Nat Days	Cal 5 Day	3-Yr s 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	(pphr	n)			(pph	im)		(ppm)			(pph	m)		(ppb)			(µg/m ³	^{\$})			
Napa	10	0	1	0.0	8	0	6.6	5.7	3.0	0	6	1.3	0	-	-	-	21.4	24.0	91	0	2
San Rafael	9	0	0	0.0	7	0	5.1	5.2	2.4	0	6	1.7	0	-	-	-	18.1	20.4	79	0	2
Santa Rosa	9	0	0	0.0	6	0	5.6	4.8	2.4	0	6	1.3	0	-	-	-	18.4	21.1	74	0	2
Vallejo	9	0	0	0.0	7	0	6.2	5.6	4.1	0	6	1.3	0	4	1.0	0	16.5	19.4	86	0	3
Coast & Central Bay																					
Oakland	7	0	0	0.0	4	0	4.2	5.0	4.0	0	-	-	-	-	-	-	-	-	-	-	-
San Francisco	8	0	0	0.0	5	0	4.6	4.0	3.3	0	7	1.9	0	7	2.1	0	22.9	26.4	67	0	7
San Pablo	9	0	0	0.0	8	0	4.8	2.3	1.4	0	6	1.4	0	5	1.3	0	-	-	-	-	-
Eastern District																					
Bethel Island	13	1	3	0.7	10	2	8.2	2.5	1.5	0	4	1.0	0	7	2.1	0	18.7	22.7	87	0	3
Concord	13	1	6	1.3	9	1	8.1	4.4	2.7	0	7	1.5	0	4	1.1	0	17.8	20.4	106	0	2
Crockett	-	-	-	-	-	-	-	-	-	-	-	-	-	16	1.7	0	-	-	-	-	-
Fairfield Livermore	10 11	0 0	3 9	0.3 1.3	8 9	0 2	7.5 8.3	- 5.8	- 3.2	- 0	- 7	- 1.7	- 0	-	-	-	- 21.1	- 24.6	- 109	-	- 3
Martinez	11	0	9	1.5	9	2	0.5	5.0	J.Z	U	-	1.7	U	- 5	- 1.3	- 0	21.1	24.0	109	0	3
Pittsburg	12	0	2	0.0	9	1	7.3	5.2	2.4	0	6	1.4	0	11	2.7	0	16.6	20.6	98	_	_
South Central Bay			_	0.0	Ŭ	•	1.0	0.2		•	-					Ĵ	10.0	20.0			
Fremont	11	0	3	0.3	8	0	6.2	5.4	2.7	0	8	1.9	0				20.8	23.4	58	0	3
Hayward	10	0	2	0.0	9	1	6.6	- 5.4	Z.1 -	-	-	-	-	-	-	-	- 20.0	2J.4 -	- 50	-	-
Redwood City	11	0	1	0.0	7	0	4.9	7.1	3.9	0	7	1.7	0	_	-	-	19.9	22.6	65	0	4
San Leandro	9	Õ	0	0.0	6	Õ	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Clara Valley																					
Gilroy	12	0	3	0.0	10	2	7.4	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Los Gatos	12	0	2	0.0	9	1	6.8	-	-	-	-	_	-	-	-	-	-	-	-	-	-
San Jose, 4th Street	11	0	2	0.0	7	0	6.0	7.6	5.1	0	11	2.4	0	-	-	-	25.6	28.9	77	0	4
San Jose East	9	0	0	0.0	6	0	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Jose, Tully Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.2	22.8	75	0	4
San Martin	12	0	7	0.3	9	2	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunnyvale	8	0	0	-	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Bay Area Days over Standard	1 15 7						0			0			0	sixth day,	actual days timated to b	sampled eve over standa be six times	ard	10			

NOTES

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

The federal eight-hour average ozone standard is in effect, but the U.S. Supreme Court has decreed that EPA must issue implementation guidance through new rulemaking.

The Gilroy station reopened on April 1, 2001. It was closed for the year 2000 due to major construction activity on the property. A new monitoring station in Sunnyvale was opened on April 1, 2001.

Explanation of Terms

State and federal 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 is only sampled every sixth day. Actual days over standard can be estimated to be six times the number shown.)

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 8 Hour	9 pphm	12 pphm 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 parts per hundred million ppb parts per billion micrograms per cubic meter

TEN-YEAR BAY AREA AIR QUALITY SUMMARY												
		OZONE		CA	RBON I	MONOXI	DE	Nitrogen Dioxide	Sul Diox		PM ₁₀	
YEAR	1-Hr Nat Cal		8-Hr* Nat	1-Hr Nat Cal		8-Hr Nat Cal		1-Hr Cal	24-Hr Nat Cal		24- Nat**	Hr Cal**
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
2001	1	15	7	0	0	0	0	0	0	0	0	10
		romulgated andard in m							over sta	is sampled even Indard can be e Inbers listed.		