BAY AREA AIR POLLUTION SUMMARY — 2003

—See NOTES on back of this page

MONITORING STATIONS	OZONE			CARBON NITROGEN MONOXIDE DIOXIDE		SULFUR DIOXIDE	PM ₁₀	PM _{2.5}	
	Max Nat C 1-Hr Days Da		Nat 3-Yr Days Avg	Max Max Nat/C 1-Hr 8-Hr Days	l Max Ann Nat/Ca 1-Hr Avg Days	Max Ann Nat/Cal 24-Hr Avg Days	Ann Max Nat Cal Avg 24-Hr Days Days	Max Nat 3-Yr 24-Hr Days Avg	Ann 3-Yr Avg Avg
North Counties	(pphm)	(pphm))	(ppm)	(pphm)	(ppb)	(µg/m ³)	(µg/m ³)	(µg/m ³)
Napa San Rafael Santa Rosa Vallejo	9 0 0 10 0	0 0.0 7 1 0.0 8	0 6.5 0 4.9 0 5.4 0 6.5	4.72.503.82.003.11.804.02.90	7 1.2 0 7 1.6 0 6 1.2 0 7 1.2 0	 5 1.2 0	21.3410017.6410016.9360017.33900	 39 0 37.9 31 0 35.0	 8.8 10.0 9.4 11.8
Coast & Central Bay Oakland Richmond San Francisco San Pablo	9 0 (0 4.0 0 4.8 0 5.3	3.9 2.8 0 3.6 2.8 0 3.1 1.8 0	 7 1.8 0 7 1.3 0	5 0.9 0 7 2.2 0 5 1.5 0	 22.7 52 0 1 20.6 49 0 0	 42 0 47.3	 10.1 11.6
Eastern District		0 0.0 7	0 0.0	5.1 1.0 0	7 1.5 0	5 1.5 0	20.0 49 0 0		
Bethel Island Concord Crockett Fairfield	10 0	5 0.3 9	0 7.9 1 8.2 0 7.1	1.6 0.9 0 3.2 2.0 0	5 0.9 0 6 1.3 0 	6 2.2 0 3 0.6 0 6 1.2 0	19.4 51 0 1 16.4 34 0 0	50 0 41.0	9.7 11.2
Livermore Martinez Pittsburg	13 1 1	10 1.0 9 	3 8.4 0 7.5	3.7 1.9 0 3.4 1.7 0	7 1.6 0 6 1.2 0	7 1.6 0 8 2.1 0	18.9 33 0 0 21.1 59 0 1	42 0 43.0 	9.0 11.6
South Central Bay Fremont Hayward Redwood City San Leandro	12 0 3 11 0		1 6.5 1 6.2 0 5.8 0 5.5	3.2 1.9 0 5.4 2.6 0	8 1.7 0 8 1.5 0 	 	18.2 37 0 0 	34 0 37.4 34 0 37.7	8.7 11.1 - 9.0 10.6
Santa Clara Valley Gilroy Los Gatos San Jose Central* San Jose East San Jose, Tully Road San Martin Sunnyvale	12 0 12 0 10 0 11 0	4 * 8 2 0.0 7 9 0.0 9	2 8.0 2 7.7 0 * 0 5.7 4 8.6 2 6.3	 5.5 4.0 0 	 9 2.1 0 		 23.6 60 0 3 24.8 58 0 2 	 56 0 * 52 0 40.2 	 11.7 * 10.1 11.1
Total Bay Area Days over Standard	1 1	19	7	0 *See notes o	0 explanation on ba	0 ck of this page	06	0	

2003 NOTES

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

*Station Information (see asterisks on front page)

The San Jose 4th Street station was closed for relocation on April 30, 2002. It reopened as San Jose Central on October 5, 2002. Three-year average ozone statistics and three-year average PM2.5 statistics for San Jose Central have been omitted from this summary.

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 (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 (1-hr ozone standard)

The average number of days per year during which ozone levels were in excess of the national 1-hour standard, based on the most recent three-year period. An average higher than 1.0 at any monitoring station means the region will be considered out of attainment by the EPA.

3-YR AVG (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 8.4 at any monitoring station means that the region will be considered out of 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.)

PM₂₅

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

California PM₁₀ Annual Average and Maximum 24-Hour concentrations are reported at local temperature and pressure conditions. National PM₁₀ Annual Average and Maximum 24-Hour concentrations are reported at standard temperature and pressure conditions. This table shows the California readings for PM₁₀ Ann Avg and Max 24-Hr, which are generally slightly higher than the national 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 PM2.5. A 3-year average greater than 65 μ g/m³ at any monitoring station means that the region will be considered out of 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 μ g/m³ at any monitoring station means that the region will be considered out of attainment by the EPA.

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 8 Hour		20 ppm 9.0 ppm	35 ppm 9 ppm		
Nitrogen Dioxide	1 Hour Annual		25 pphm	 5.3 pphm		
Sulfur Dioxide	24 Hour Annual		40 ppb	140 ppb 30 ppb		
Particulates < 10 microns	24 Hour Annual		50 μg/m ³ 20 μg/m ³	150 μg/m ³ 50 μg/m ³		
Particulates < 2.5 microns	24 Hour Annual		 12 μg/m ³	65 μg/m ³ 15 μg/m ³		

pphm ppm Concentrations parts per million parts per hundred million parts per billion micrograms per cubic meter

1 µa/m³

TEN-YEAR BAY AREA AIR QUALITY SUMMARY

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DAYS OVER STANDARDS													
	OZONE			CARBON MONOXIDE				Nitrogen Dioxide			PM ₁₀		PM _{2.5}
YEAR	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		24-Hr** Nat
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	1
2001	1	15	7	0	0	0	0	0	0	0	0	10	5
2002	2	16	7	0	0	0	0	0	0	0	0	6	7
2003	1	19	7	0	0	0	0	0	0	0	0	6	0
				*PM ₁₀ is sampled every sixth day— $actual$ days over standard which the Air PM ₂₅ levels.								e Air Distric	