BAY AREA A							A	IR POLLUTION SUMMAR						RY — 2004				—See NOTES on back of this page							
MONITORING STATIONS	OZONE					CARBON MONOXIDE			NITROGEN DIOXIDE		SULFUR DIOXIDE		PM ₁₀			PM _{2.5}			2.5						
				3-Yr S Avg			3-Yr Avg	Max 1-Hr			Max 1-Hr	Ann N Avg	Nat/Cal Days	Max 24-Hr	Ann N Avg		Ann Avg	Max 24-Hr			Max 24-Hr	Nat Days	3-Yr Avg		3-Yr Avg
North Counties	(pph	m)			(pph	m)		(ppm)			(pph	m)		(ppb)			(<i>µ</i> g/m ³	3)			(<i>µ</i> g/m	3)		(<i>μ</i> g/m	3)
Napa	9	0	0	0.0	7	0	6.6	3.7	2.0	0	6	1.1	0	-	-	-	20.7	60	0	1	-	-	-	-	-
San Rafael	9	0	0	0.0	6	0	4.9	3.2	2.0	0	6	1.5	0	-	-	-	17.9	52	0	1	-	-	-	-	-
Santa Rosa	8	0	0	0.0	6	0	5.1	2.7	1.6	0	5	1.1	0	-	-	-	18.0	48	0	0	27	0	32	8.3	9
Vallejo	10	0	1	0.0	7	0	6.5	4.0	3.4	0	5	1.2	0	5	1.3	0	19.6	51	0	1	40	0	39	11.1	11
Coast & Central Bay																									
Oakland	8	0	0	0.0	6	0	4.0	3.5	2.6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Richmond	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1.6	0	-	-	-	-	-	-	-	-	-
San Francisco	9	0	0	0.0	6	0	4.7	2.9	2.2	0	6	1.7	0	8	1.4	0	22.5	52	0	1	46	0	41	9.9	11
San Pablo San Pablo	11	0	1	0.0	7	0	5.2	3.2	1.8	0	6	1.3	0	5	1.6	0	21.2	64	0	1	-	-	-	-	-
Eastern District																									
Bethel Island	10	0	1	0.0	8	0	7.5	1.2	0.9	0	3	8.0	0	6	1.6	0	19.5	42	0	0	-	-	-	-	-
Concord	10	0	1	0.0	8	0	7.9	2.7	2.0	0	7	1.2	0	10	1.0	0	18.6	51	0	1	74	1	40*	10.7*	11*
Crockett	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1.7	0	-	-	-	-	-	-	-	-	-
Fairfield	10	0	1	0.0	8	0	7.1	-	-	-	- ,	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Livermore	11	0	5	1.0	8	0	8.3	3.5	1.8	0	6	1.4	0	- 7	- 1 E	-	20.0	49	0	0	41	0	37	10.3	11
Martinez Pittsburg	9	0	0	0.0	8	0	7.3	- 4.1	1.9	0	5	1.1	0	7	1.5 2.0	0	- 21.7	64	0	- 1	-	-	-	-	-
ŭ	7	U	U	0.0	0	U	7.3	4.1	1.7	U	J	1.1	U	,	2.0	U	21.7	04	U	'	-		_	-	
South Central Bay					_		, ,	0.0	4 7	•	,	4.5					40./	40			40	•	00		10
Fremont	9	0	0	0.0	/	0	6.4	3.0	1.7	0	6	1.5	0	-	-	-	18.6	49	0	0	40	0	32	9.4	10
Hayward Dodwood City	9	0	0	0.0	7 7	0	6.2 6.0	- 4.8	- 2.1	-	- 4	- 1.5	-	-	-	-	- 20.5	- 65	0	- 1	- 36	0	32	9.3	9
Redwood City San Leandro	10 10	0	1	0.0	7	0	5.4	4.0	2.1	0	6	1.3	0	_	-	_	20.5	00	Ū	-	- 30	-	32	9.3	9
	10	U	'	0.0	,	U	J. 4	_						_			_								
Santa Clara Valley	0	^	^	0.0	_	^	77																		
Gilroy Los Catos	9	0	0	0.0	8	0	7.7 7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Los Gatos San Jose Central*	9	0	0	V.U *	8	0	7.8 *	4.4	3.0	0	7	- 1.9	0	-	-	-	23.1	- 58	0	4	- 52	0	*	11.6	*
San Jose East	9	0	0	0.0	7	0	6.0	4.4	J.U -	-	′	1.7	-		-	-	- 23.1	-	-	-	- 52	-	_	11.0	_
San Jose, Tully Road	_ '	-	-	-	_ ′	-	-		_	-		-	_	_	_	_	26.0	65	0	3	45	0	35	10.4	10
San Martin	9	0	0	0.0	8	0	8.4	_	_	_	_	_	_	_	_	_	-	-	-	-	-	-	-	-	-
Sunnyvale	10	0	1	0.0	8	0	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Bay Area Days over Standard		0	7			0		*C.		0	ove los	otion.	0	ale of the	ia na	0			0	7		1			
								*See notes of explanation on back of this page																	

2004 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 on April 30, 2002. It was relocated to **San Jose Central** on October 5, 2002. Three-year average ozone statistics and three-year average $PM_{2.5}$ statistics for San Jose Central have been omitted from this summary.

Due to roof damage at the Concord station during the fourth quarter of 2004, the $PM_{2.5}$ sampler could not be operated on some of the required sampling days. The $PM_{2.5}$ annual average and three-year average $PM_{2.5}$ statistics are based on available data.

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.

PM₄₀

Particulate matter ten microns or smaller in size. $(PM_{10}$ is only sampled every sixth day. *Actual* days over standard can be estimated to be six times the number shown.)

PM₂ 5

Particulate matter 2.5 microns or smaller in size. $PM_{2.5}$ is a sub-category of PM_{10} .

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 PM $_{2.5}$. A 3-year average greater than 65 μ g/m 3 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 µg/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						
	*The U.S. EPA revoked the national 1-hour ozone standard on June 15, 2005.									

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

TEN-YEAR BAY AREA AIR QUALITY SUMMARY

DAYS OVER STANDARDS

		OZON	E	CARI	BON N	/ONO	XIDE	Nitrogen Dioxide		lfur xide	Pl	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		
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		
2004	0	7	0	0	0	0	0	0	0	0	0	7	1		
				*PM ₁₀ is sampled every sixth day— <i>actual</i> days over standard can be estimated to be six times the numbers listed. **2000 is the first full year for which the Air District measured PM ₂₅ levels.											