BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Base Year 2005 Emissions Inventory

Summary Report

Bay Area Air Quality Management District

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EMISSIONS INVENTORY

SUMMARY REPORT

BASE YEAR 2005

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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INTRODUCTION

This document summarizes the most recent emissions inventory for the Bay Area Air Quality Management District.

The emissions inventory is an important tool for developing strategies to improve air quality. The inventory provides information on the location, magnitude, and relative contribution of pollutant emissions in an air basin. The Bay Area emissions inventory is used by the District in air quality planning to develop emission control programs to attain clean air goals. The inventory also serves as a source of information to the general public, government agencies, developers, consultants, planners, and others engaged in studies related to air pollution.

In addition to this Summary Report, another related document, "Base Year 2005 Emissions Inventory Source Category Methodologies" gives a detailed description of the methodologies used to develop this inventory. The latter publication is due for release in December 2008. Please see Page 6 of this Summary Report for obtaining additional information.

SUMMARY

The Base Year 2005 Inventory consists of emissions inventory estimates for the year 2005, plus historical and future year emission projections for the period 1980 through 2030. This inventory replaces the District's previous comprehensive emissions inventory, the Base Year 2002 Emissions Inventory. The 2005 emissions inventory, covering over 800 source categories, is a detailed accounting of emission sources. All current, past, and future emissions have been reviewed or recalculated using the best available emission factors and methodologies. The results may show certain changes from earlier published inventories. Readers should note that emission rates shown are estimates-based on tests, published emission factors, and engineering calculations. Inventory estimates are subject to change as new data and improved methodologies become available.

- General Statistics for the Bay Area and individual counties are in Tables 1 and 2. These include population, area, vehicle population; estimated vehicle miles travelled (VMT) and total gasoline sales.

- Emissions Summary and the percent contribution from 8 main source categories are shown in Tables 3 and 4 respectively. The latter shows that on-road motor vehicles produce about 35% of Reactive Organic Gases (ROG) and 45% of Nitrogen Oxides (NO_x) emissions and therefore remain the single largest source of the ozone precursor emissions in the Bay Area. Off-road mobile sources are also important sources of ozone precursors, particularly of NO_x. Included in the miscellaneous other sources are two major source categories of Particulate Matter less than 10 microns in diameter (PM_{10}) emissions: road dust produced by on-road

motor vehicles traveling on paved and unpaved roads (47% of total), and construction and farming operations (18% of total). Combustion from stationary sources, off-road mobile sources and on-road motor vehicles is a major source of Particulate Matter less than 2.5 microns in diameter ($PM_{2.5}$). Note that these are direct emissions only and do not include secondary $PM_{2.5}$ such as ammonium nitrate and ammonium sulfate. On-road motor vehicles are also major contributor to Carbon Monoxide (CO) emissions, accounting for 65% of the regional emissions.

- Detailed daily 2005 annual average emissions for the District are shown in Table 5.

  - On-road motor vehicle emissions in this report were obtained from the California Air Resources Board (CARB) EMFAC2007 model, Version 2.3 (Released November 2006). Travel data, compiled by the Metropolitan Transportation Commission (MTC) for their 2030 Regional Transportation Plan (RTP2030), were incorporated into the EMFAC2007 model, to better represent Bay Area traffic patterns and projected VMT growth.

  - Wildfire emissions were calculated based upon a new methodology using a Geographic Information System (GIS) based Emission Estimating System (EES) developed for CARB by UC Berkeley. Revised emission factors have led to large increases in emissions estimates for past and estimated future years compared with previous inventories. These emissions are included in the "other miscellaneous" category.

  - Military aircraft emissions estimates are based on the latest aircraft fleet mix and landing and takeoff (LTO) information received from Travis Air Force Base. Fleet mix and LTO changes were the result of military base closures and realignment following the end of the Cold War. These changes took place during a 10 year period, from 1991 to 2001. Newer aircraft tend to emit more NO_x and less ROG emissions.

  - Off-Road mobile sources emissions are higher than the previous estimates. CARB developed a detailed emission model for off-road mobile sources called OFFROAD2007, which included significant changes from previous versions of the OFFROAD model. This model estimates emissions from over 1,100 types of off-road equipment in California. The model estimates evaporative as well as exhaust emissions from the engines.

- On September 11, 2000, CARB adopted a regulation on portable fuel containers manufactured for sale and use in California. The regulation required that all portable containers and spouts have an automatic shut-off feature to prevent overfilling of power equipment fuel tanks. According to CARB estimates, by 2005 a reduction of 3 tons per day of ROG (approximately 30%) was achieved for the Bay Area due to this rule.

- CARB has recently developed statewide emissions estimates for ocean-going vessels (OGVs) and commercial boats. Previously emissions for the Bay Area were estimated for ship activities within three miles of the Golden Gate Bridge. In the recent estimates, activities occurring within 100 nautical miles of the California coastline are included in the inventory. As a result, these emissions estimates are substantially higher than those reported in previous versions of the inventory.

- Wood smoke emissions estimates have changed. New estimates of the amount and location of residential wood burning were developed based on a Bay Area 2005-2006 telephone survey on wood burning. For example, for San Francisco County, it was found that wood-burning had previously been overestimated, and for Solano, it had been under-estimated. Emission factors have also been updated for this category. Overall, these changes resulted in 15% and 20% reductions of region-wide PM2.5 and NO_x estimates for 2005 compared with previous estimates.

- The source category for cooking has been expanded to include three types of cooking: Charbroiling, Deep Fat Frying and Griddles. The throughputs and emission factors were based on District Staff Reports prepared during adoption of a rule on Commercial Cooking Equipment (Regulation 6-2). The new methodology has resulted in increases in particulate emissions estimates, most notably due to the inclusion of condensable vapors in these emissions. The emissions are included in the food, wine and agricultural processes category.

- A new source category, Composting, has been added to this inventory. It was assumed that composting operations began in the mid-1980s. In 2005 ROG emissions from composting were approximately 2.5 tons per day. Composting emissions are included in the waste management category.

- The Biogenic emissions for this base year are much lower compared to the previous base year. CARB developed a new model to estimate biogenic emissions in 2002. The Biogenic Emissions Inventory Geographical Information System (BEIGIS) model uses California land-use, vegetation, and gridded leaf area indices and provides more realistic emissions estimates compared with previous inventories. Annual average biogenic emissions of ROG in the Bay Area are approximately 110 tpd, whereas they were previously estimated to be as high as 210 tpd.

- Summer and winter emissions inventories are shown in Tables 6 and 7 respectively. Summer emissions are used for Ozone planning and winter emissions for PM planning. Emissions are higher in the summer for certain pollutants, for example evaporative ROG emissions, and higher in winter for other pollutants, such as PM_{10} emissions from fireplaces.

- Emission trends (1990-2025) for PM_{10}, $PM_{2.5}$, ROG, NO_x, SO_2 and CO are shown in Figure 2. Please refer to the Discussion section for more details.

- Charts of county emissions as a percentage of the total Bay Area emissions by pollutants are shown in Figure 3.

- Tabulated 2005 emissions for each of the nine counties are shown in Tables 8-16.

- Projected 2008 District emissions are shown in Table 17.

- Emissions from major emitting stationary sources are shown on Table 18.

DISCUSSION OF EMISSION TRENDS

Charts of historical and projected future emissions in Figure 2 show the combined effects of growth and regulatory controls. Projected emissions are based on the assumption that the Bay Area population and economy will grow. The projected growth is based on various estimates, including data from the Association of Bay Area Governments (ABAG) Projections 2007 and past trends.

- ROG emissions have declined significantly due to BAAQMD regulatory controls on industrial sources such as petroleum refining, surface coating and solvent use. CARB regulations on mobile sources have also significantly reduced ROG emissions. On-road motor vehicle emissions have declined over the years despite annual increases in Vehicle Miles Travelled (VMT). This is due to the replacement of older vehicles with newer lower emitting vehicles. Introduction of Reformulated Gasoline Phase II (RFGII) in 1996 resulted in significant emission reductions.

Further reductions were also achieved due to the introduction of Enhanced Inspection and Maintenance program (Smog Check II) in the Bay Area which started in October 2004.

- ROG emissions will continue to decline by an average of 1.6% per year until 2020. This is due to continuing turnover of the vehicle fleet and associated benefits of CARB's on-road motor vehicle regulations. Other state-mandated regulations, including those on off-road mobile sources and consumer products, together with District regulations on stationary sources, also contribute to ROG emission reductions. After 2020, ROG emissions are projected to stay flat and then increase very slightly in 2025. This projection is based on regulations in place as of January 1, 2007. However, with the introduction of additional regulations, further reductions are expected to occur.

- NO_x emission reductions were due to District regulations on combustion sources including refineries and power plants and tighter emission controls on motor vehicles. Smog Check II, mentioned above, resulted in large reductions of NO_x, as these emissions are measured during the test and failing vehicles have to be repaired.

- NO_x emissions from on-road motor vehicles will continue to decline due to fleet turnover. Implementation of BAAQMD NO_x rules will also continue to reduce emissions. Total NO_x emissions are expected to decline by an average of about 2.0% per year until 2022. After 2022, NO_x emissions are projected to increase. The increases are mainly due to projected increase in shipping activities in the Bay Area. However, with the introduction of additional regulations currently being considered by CARB, further reductions will occur. Examples of these are tighter regulations on ships and heavy-duty trucks. Additional BAAQMD regulations on stationary sources will also further reduce NO_x emissions.

- Changes in PM_{10} and $PM_{2.5}$ emissions from 2000 to 2005 are due to construction activity changes and wildfires in those years.

- PM_{10} and $PM_{2.5}$ emissions show an increase of about 1.0% and 0.8% respectively per year from 2005. This is mainly due to expected growth in VMT and construction activities.

- There were large reductions of SO_2 emissions in 2002 and 2003 attributed to a voluntary decrease in flaring activities by refineries. SO_2 emissions decreased further in 2004 due to the implementation of a Flare Monitoring Rule passed in 2003.

- Flare emissions of SO_2 are assumed to grow in line with other refinery emissions of approximately 1% per annum. This growth is based on the assumption that refineries will continue to operate at normal conditions while increasing output to meet the growing demand for fuel.

- Overall, SO_2 emissions are expected to increase by approximately 3.3% per year mainly due to increased off-road motor vehicles usage, particularly ships.

- CO emissions have decreased significantly, and are expected to continue to decline, due to continued turnover of the vehicle fleet.

As new controls from the Bay Area 2005 Ozone Strategy and regulations by CARB and EPA are adopted and implemented, further emission reductions will be achieved from the baseline emissions shown in these graphs. Currently, all stationary source measures adopted by the District as of January 1, 2007 are included in these projections.

ADDITIONAL INFORMATION

- Additional inventory information is available on the BAAQMD website:

  http://www.baaqmd.gov/pln/emission_inventory.htm

- Please contact Michael Nguyen at 415-749-5116 or mnguyen@baaqmd.gov to obtain more information on the "Base Year 2005 Emissions Inventory Source Category Methodologies".

More detailed emissions data are available to the public upon request. For example, Base Year 2005 emissions have been tabulated for each of the nine Bay Area Air Quality Management District counties for all source categories. Annual average, summer and winter emissions for years 1990 through 2025, on a regional basis only, are also available for all source categories. Some public requests may involve a charge; this is usually the case if significant staff time, copying, or computer work is required. For more information contact: Amir Fanai at (415) 749-4649 or afanai@baaqmd.gov .

Table 1
General Statistics
San Francisco Bay Area
Trends in Population, Number of Vehicles and Vehicle Miles Travelled

All in Millions	1990	1995	2000	2005	2010	2015	2020	2025
Population [1]	5.933	6.305	6.618	6.916	7.215	7.518	7.845	8.153
Number of Vehicles [1]	3.935	4.274	4.710	4.928	5.288	5.744	6.141	6.566
Daily VMT [2]	132.6	141.2	155.0	163.2	169.9	182.7	193.8	206.3

Table 2
2005 County Statistics

County	Population (Millions)	Area (Square Miles) Land	Water	Total	Natural Gas Usage (cu.ft.) Millions/day	Gasoline Usage (gallons)	Number of Vehicles (Millions)	Daily VMT
Alameda	1.505	738	84	822	142	1.822	1.051	35.929
Contra Costa	1.023	720	82	802	600	1.189	0.754	25.674
Marin	0.253	520	308	828	23	0.345	0.205	6.258
Napa	0.134	754	35	789	12	0.173	0.129	4.198
San Francisco	0.796	47	185	232	111	0.995	0.415	12.937
San Mateo	0.722	449	292	741	67	0.990	0.567	19.085
Santa Clara	1.763	1,291	13	1,304	200	2.217	1.267	41.175
Solano [1]	0.299	370	64	434	42	0.361	0.202	7.179
Sonoma [1]	0.421	664	4	668	29	0.508	0.338	10.729
TOTAL	**6.916**	**5,553**	**1,067**	**6,620**	**1,235**	**8.600**	**4.928**	**163.2**

1) Within District Jurisdiction
2) Vehicle Miles Travelled Based on CARB's EMFAC2007 version 2.3 (November 2006)

Table 3
Emissions Summary
San Francisco Bay Area
Total 2005 Average Daily Emissions (tons/day)

Particulate Matter<10 Microns (PM10)	Particulate Matter<2.5 Microns (PM2.5)	Reactive Organic Gases (ROG)	Nitrogen Oxides (NOx)	Sulfur Dioxide (SO2)	Carbon Monoxide (CO)
208	86	393	521	68	2067

Table 4
Distribution of 2005 Annual Average Emissions

	Percent					
Major Source Category	**PM10**	**PM2.5**	**ROG**	**NOx**	**SO2**	**CO**
Petroleum Refining Processes	1	1	1	--	36	--
Other Industrial/ Commercial Processes	10	20	3	0	10	--
Organic Compounds Evaporation	--	--	22	--	--	--
Combustion	12	29	3	12	17	9
Off-Road Mobile Sources	6	15	20	42	34	23
On-Road Motor Vehicles	5	8	35	45	3	65
Consumer Products/Dust Sources/Other	66	28	14	0	1	3
GRAND TOTAL	**100**	**100**	**100**	**100**	**100**	**100**

Figure 1
Distribution of 2005 Annual Average Emissions

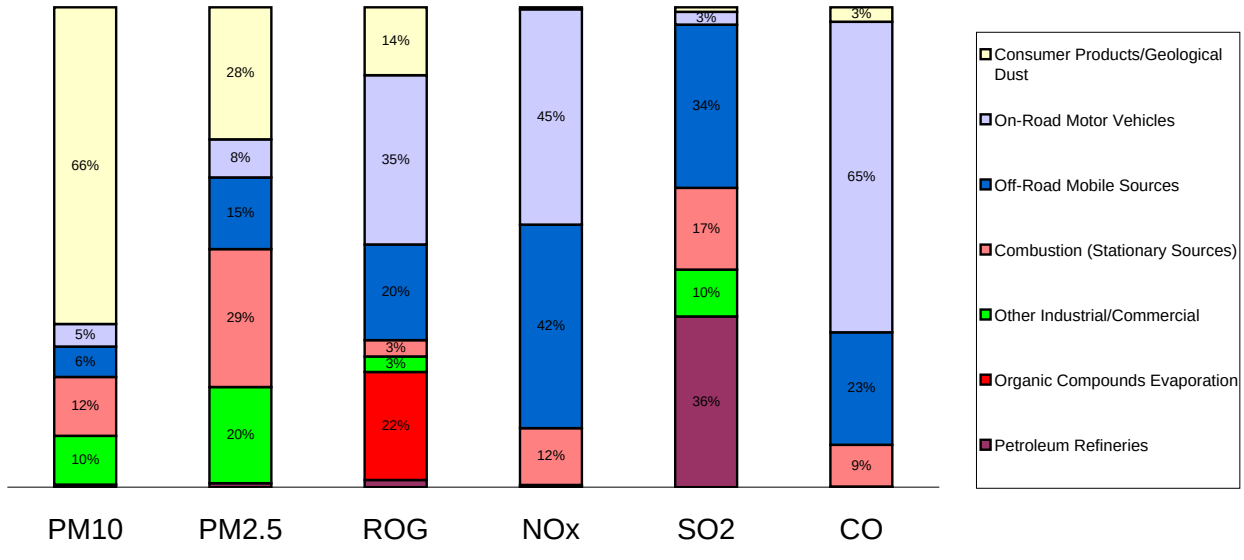


Table 5

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

Bay Area

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.8	0.5	0.2	0.3	23.2	--
Other Refining Processes	0.2	0.2	5.0	0.3	0.9	1.3
Fugitives	--	--	0.6	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.6	1.6	6.4	0.3
Food, Wine and Agricultural Processes	14.2	13.1	3.6	--	--	0.2
Metallurgical and Mineral Processes	4.6	2.9	0.2	0.1	0.2	0.4
Gas and Oil Production Fields	--	--	0.2	--	--	--
Waste Management	1.1	0.3	5.6	--	--	--
Other Processes	0.8	0.5	1.6	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	3.5	--	--	--
Natural Gas Distribution	--	--	0.6	--	--	--
Bulk Plants	--	--	3.1	--	--	--
Gasoline Filling Stations	--	--	7.5	--	--	--
Aircraft, Boats and Other Refueling	--	--	4.0	--	--	--
Degreasing	--	--	6.4	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	3.0	--	--	--
Adhesives and Sealants	--	--	9.2	--	--	--
Structures Coating	--	--	23.0	--	--	--
Industrial/Commercial Coatings	--	--	13.6	--	--	--
Other Evaporation	--	--	14.4	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	19.7	19.0	9.0	14.4	0.6	137.0
Cogeneration	0.8	0.8	1.4	4.1	0.2	3.8
Power Plants	0.3	0.3	--	1.7	0.1	1.7
Refineries	1.7	1.7	0.5	13.7	7.9	4.8
Other Fuels Combustion	2.5	2.5	2.1	27.3	2.7	29.0
Waste Burning and Incineration	0.5	0.5	0.4	0.4	--	3.3
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.9	0.8	21.9	7.5	--	123.7
Industrial Equipment	0.6	0.6	3.6	18.6	--	60.1
Light Commercial Equipment	0.7	0.7	7.0	7.9	--	95.5
Oil Drilling Equipment	--	--	0.2	2.1	--	0.8
Farm and Construction Equipment	4.8	4.7	13.7	80.4	0.6	59.4
Locomotives	0.3	0.3	1.1	13.8	0.2	2.3
Off-Road Motorcycles and 4-Wheel Drives	--	--	1.0	--	--	5.6
Ships and Boats	5.3	5.2	23.1	69.6	21.3	95.1
Commercial Aircraft/Ground Support Equipment	0.2	0.2	2.8	16.0	0.3	19.6
General Aviation & Agricultural Aircraft	--	--	0.7	0.2	--	15.7
Military Aircraft	0.3	0.3	3.3	4.9	0.3	7.6
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.5	3.3	107.6	102.8	0.7	1045.9
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	15.6	55.3	0.5	159.2
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.7	2.3	6.5	72.4	0.6	49.4
Motor-Homes	--	--	0.4	1.3	--	11.4
Motorcycles	--	--	8.4	1.9	--	71.7
MISCELLANEOUS						
Construction and Farming Operations	28.2	2.9	--	--	--	--
Paved and Unpaved Road Dust	84.7	12.1	--	--	--	--
Pesticides	--	--	5.2	--	--	--
Consumer Products (Excluding Pesticides)	--	--	41.0	--	--	--
Other Miscellaneous	24.7	8.8	9.4	2.2	0.7	62.7
GRAND TOTAL EMISSIONS	**208**	**86**	**393**	**521**	**68**	**2067**

Biogenic emissions are not included in this table
The symbol -- means less than 0.1 tons/day

Table 6

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

Bay Area Summer Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.8	0.5	0.2	0.3	23.2	--
Other Refining Processes	0.2	0.2	5.0	0.3	0.9	1.3
Fugitives	--	--	0.6	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.6	1.6	6.5	0.3
Food, Wine and Agricultural Processes	16.4	15.2	3.6	--	--	0.2
Metallurgical and Mineral Processes	5.4	3.3	0.2	0.2	0.2	0.4
Gas and Oil Production Fields	--	--	0.2	--	--	--
Waste Management	1.2	0.3	5.6	--	--	--
Other Processes	0.8	0.5	1.7	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	3.5	--	--	--
Natural Gas Distribution	--	--	0.4	--	--	--
Bulk Plants	--	--	3.1	--	--	--
Gasoline Filling Stations	--	--	7.6	--	--	--
Aircraft, Boats and Other Refueling	--	--	4.3	--	--	--
Degreasing	--	--	6.9	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	3.0	--	--	--
Adhesives and Sealants	--	--	9.2	--	--	--
Structures Coating	--	--	24.1	--	--	--
Industrial/Commercial Coatings	--	--	13.9	--	--	--
Other Evaporation	--	--	17.5	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	4.8	4.7	2.3	6.9	0.3	32.5
Cogeneration	0.8	0.8	1.4	4.1	0.2	3.8
Power Plants	0.3	0.3	--	1.8	0.1	1.9
Refineries	1.7	1.7	0.5	13.9	7.9	4.8
Other Fuels Combustion	2.6	2.6	2.2	28.1	2.8	29.6
Waste Burning and Incineration	0.4	0.4	0.3	0.4	--	2.4
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.9	0.9	24.1	7.8	--	136.8
Industrial Equipment	0.7	0.7	4.0	20.9	--	66.9
Light Commercial Equipment	0.8	0.8	7.8	8.9	--	106.3
Oil Drilling Equipment	--	--	0.2	2.4	--	0.9
Farm and Construction Equipment	5.4	5.3	15.4	90.1	0.7	66.8
Locomotives	0.3	0.3	1.1	13.8	0.2	2.3
Off-Road Motorcycles and 4-Wheel Drives	--	--	1.1	--	--	5.1
Ships and Boats	5.9	5.8	31.6	74.8	21.7	133.0
Commercial Aircraft/Ground Support Equipment	0.2	0.2	2.9	16.5	0.3	20.3
General Aviation & Agricultural Aircraft	--	--	0.8	0.3	--	20.1
Military Aircraft	0.3	0.3	3.3	4.9	0.3	7.6
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.5	3.3	115.0	98.3	0.8	1048.3
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	14.8	54.9	0.5	148.3
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.7	2.3	6.3	73.4	0.6	46.2
Motor-Homes	--	--	0.4	1.3	--	11.3
Motorcycles	--	--	8.8	1.7	--	67.3
MISCELLANEOUS						
Construction and Farming Operations	30.5	3.1	--	--	--	--
Paved and Unpaved Road Dust	103.4	14.5	--	--	--	--
Pesticides	--	--	5.5	--	--	--
Consumer Products (Excluding Pesticides)	--	--	41.1	--	--	--
Other Miscellaneous	30.1	13.6	12.9	4.1	1.2	117.3
GRAND TOTAL EMISSIONS	**224**	**83**	**416**	**531**	**69**	**2082**

Biogenic emissions are not included in this table
The symbol -- means less than 0.1 tons/day

Table 7

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

Bay Area Winter Emissions tons/day

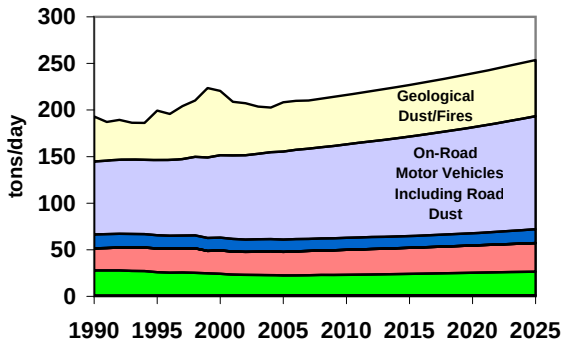
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.8	0.5	0.2	0.3	23.2	--
Other Refining Processes	0.2	0.2	5.1	0.3	0.9	1.3
Fugitives	--	--	0.6	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.5	1.6	6.3	0.3
Food, Wine and Agricultural Processes	12.0	11.1	3.7	--	--	0.2
Metallurgical and Mineral Processes	3.7	2.4	0.2	0.1	0.2	0.3
Gas and Oil Production Fields	--	--	0.2	--	--	--
Waste Management	1.1	0.3	5.5	--	--	--
Other Processes	0.7	0.4	1.6	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	3.5	--	--	--
Natural Gas Distribution	--	--	0.7	--	--	--
Bulk Plants	--	--	3.1	--	--	--
Gasoline Filling Stations	--	--	7.4	--	--	--
Aircraft, Boats and Other Refueling	--	--	3.7	--	--	--
Degreasing	--	--	5.9	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	3.0	--	--	--
Adhesives and Sealants	--	--	9.2	--	--	--
Structures Coating	--	--	21.8	--	--	--
Industrial/Commercial Coatings	--	--	13.2	--	--	--
Other Evaporation	--	--	14.2	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	34.7	33.4	15.7	22.0	0.9	241.5
Cogeneration	0.8	0.8	1.4	4.1	0.2	3.8
Power Plants	0.2	0.2	--	1.5	0.1	1.4
Refineries	1.7	1.7	0.5	13.0	7.9	4.7
Other Fuels Combustion	2.5	2.5	2.1	27.2	2.7	28.8
Waste Burning and Incineration	0.6	0.6	0.5	0.4	--	4.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.8	0.8	19.6	7.2	--	110.7
Industrial Equipment	0.5	0.5	3.1	16.3	--	53.2
Light Commercial Equipment	0.6	0.6	6.2	6.8	--	84.6
Oil Drilling Equipment	--	--	0.2	1.8	--	0.7
Farm and Construction Equipment	4.3	4.2	12.1	70.6	0.5	51.9
Locomotives	0.3	0.3	1.1	13.8	0.2	2.3
Off-Road Motorcycles and 4-Wheel Drives	--	--	1.0	--	--	6.1
Ships and Boats	4.6	4.5	14.6	64.4	21.0	57.1
Commercial Aircraft/Ground Support Equipment	0.2	0.2	2.7	15.4	0.3	18.9
General Aviation & Agricultural Aircraft	--	--	0.5	0.2	--	11.3
Military Aircraft	0.3	0.3	3.3	4.9	0.3	7.6
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.5	3.3	118.0	109.9	0.7	1076.9
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	16.9	57.5	0.5	166.3
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.7	2.4	6.7	74.5	0.6	51.3
Motor-Homes	--	--	0.4	1.4	--	11.7
Motorcycles	--	--	9.0	2.0	--	75.5
MISCELLANEOUS						
Construction and Farming Operations	25.8	2.6	--	--	--	--
Paved and Unpaved Road Dust	66.0	9.7	--	--	--	--
Pesticides	--	--	5.0	--	--	--
Consumer Products (Excluding Pesticides)	--	--	40.8	--	--	--
Other Miscellaneous	19.2	4.0	6.0	0.3	--	8.1
GRAND TOTAL EMISSIONS	**192**	**89**	**391**	**518**	**67**	**2080**

Biogenic emissions are not included in this table
The symbol -- means less than 0.1 tons/day

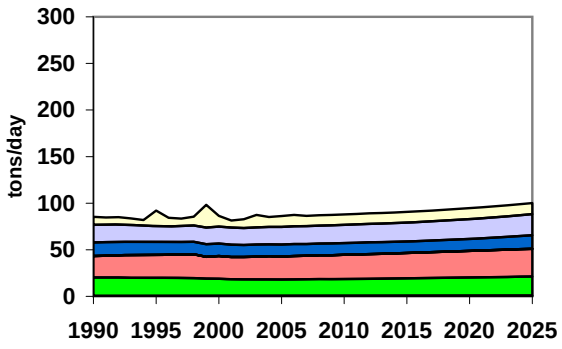
Figure 2

Bay Area Emissions Trends - Annual Average

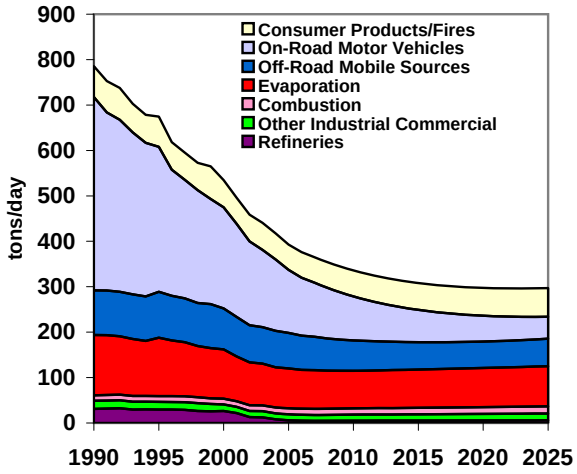
Particulate Matter<10 microns



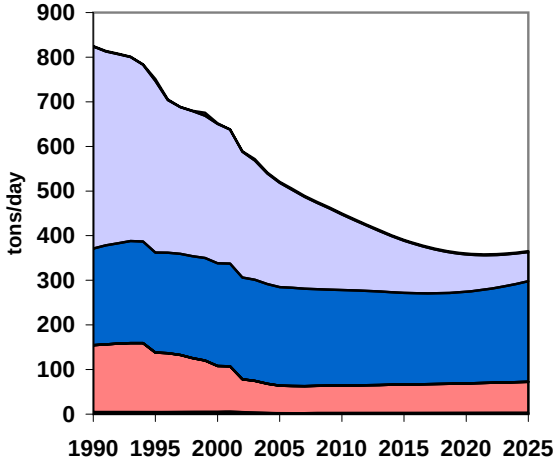
Particulate Matter<2.5 microns



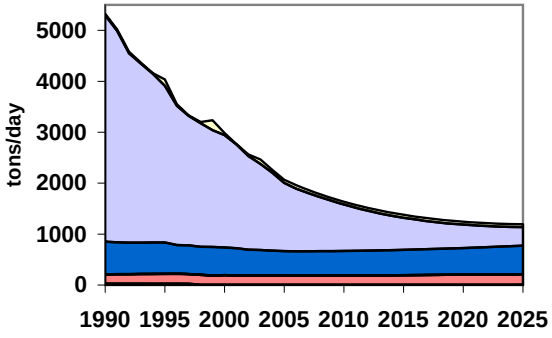
Reactive Organic Gases



Nitrogen Oxides



Carbon Monoxide



Sulfur Dioxide

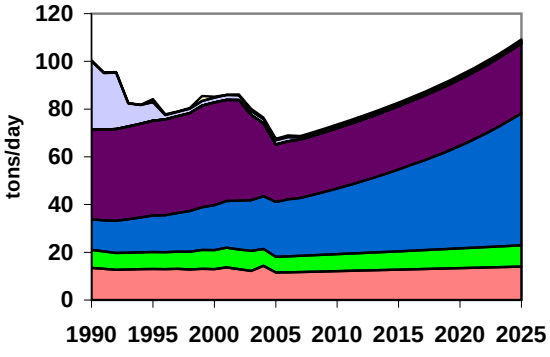
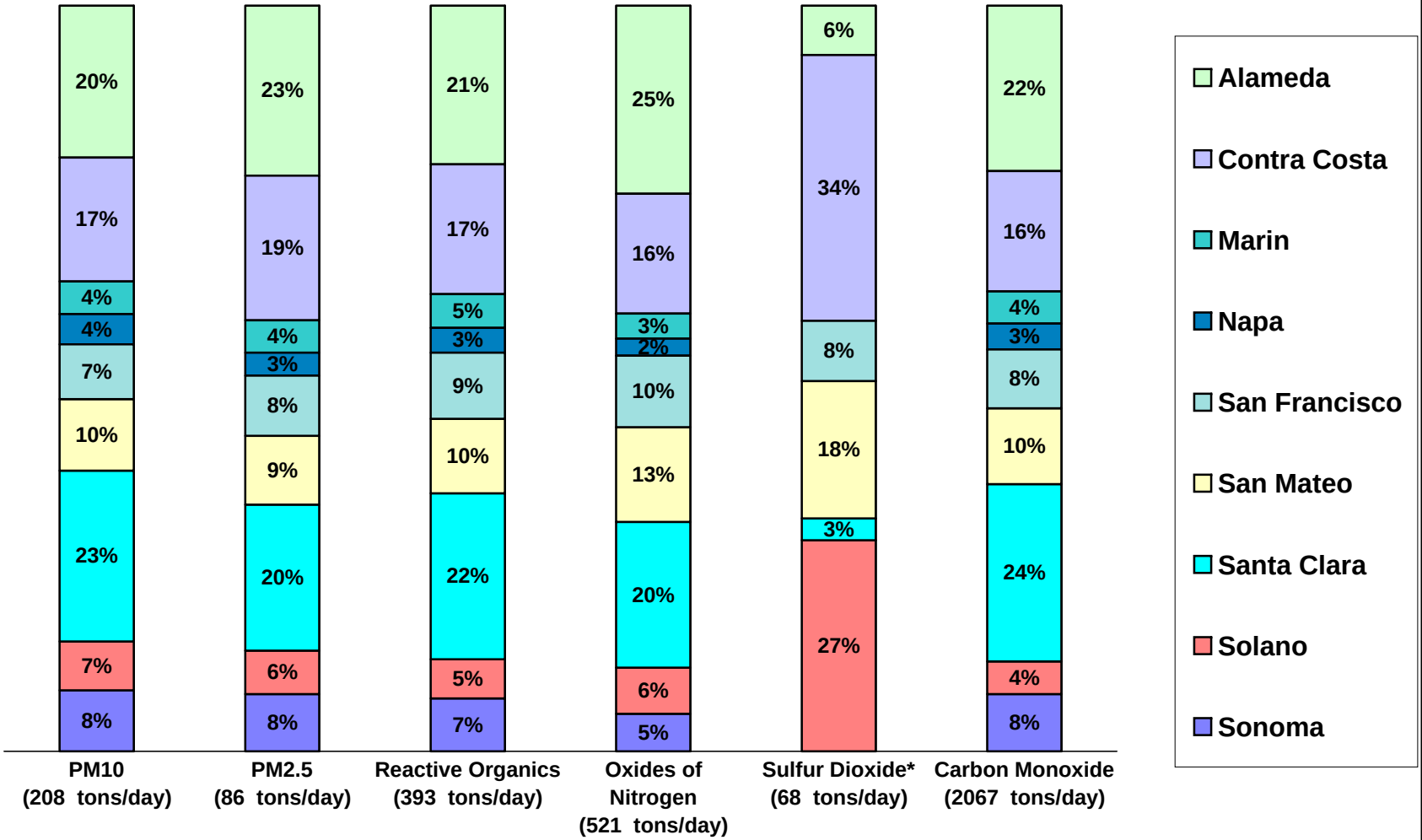


Figure 3
Bay Area Annual Average 2005 Emissions by County



* SO2 emissions in Marin, Napa and Sonoma counties are less than 1% of the Bay Area total, and not shown on the SO2 chart.

Table 8

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

ALAMEDA

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.1	0.1	0.4	--	--	--
Food, Wine and Agricultural Processes	2.9	2.6	0.7	--	--	--
Metallurgical and Mineral Processes	1.4	1.0	0.1	--	0.2	0.2
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	0.4	--	1.0	--	--	--
Other Processes	0.2	--	0.4	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	1.6	--	--	--
Aircraft, Boats and Other Refueling	--	--	1.0	--	--	--
Degreasing	--	--	2.0	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.9	--	--	--
Adhesives and Sealants	--	--	1.9	--	--	--
Structures Coating	--	--	5.0	--	--	--
Industrial/Commercial Coatings	--	--	4.8	--	--	--
Other Evaporation	--	--	2.6	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	2.6	2.6	1.1	2.7	--	18.7
Cogeneration	--	--	--	0.3	--	0.9
Power Plants	--	--	--	0.2	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	0.4	0.3	0.3	4.8	0.7	3.1
Waste Burning and Incineration	--	--	--	--	--	0.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.2	0.2	4.9	1.7	--	27.6
Industrial Equipment	0.1	0.1	0.6	3.1	--	10.0
Light Commercial Equipment	0.2	0.2	1.5	1.6	--	19.8
Oil Drilling Equipment	--	--	--	--	--	--
Farm and Construction Equipment	0.9	0.9	2.6	15.4	0.1	11.1
Locomotives	--	--	0.3	3.3	--	0.6
Off-Road Motorcycles and 4-Wheel Drives	--	--	0.2	--	--	1.0
Ships and Boats	1.4	1.4	4.5	27.6	1.9	14.0
Commercial Aircraft/Ground Support Equipment	--	--	0.5	3.1	--	4.0
General Aviation & Agricultural Aircraft	--	--	0.2	0.1	--	3.9
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	1.2	0.7	23.3	22.6	0.2	228.6
Medium and Heavy Duty Trucks <33000 lbs	0.4	0.3	3.3	13.4	0.1	34.1
Heavy Duty Diesel Trucks/Buses>33000 lbs	1.2	1.0	2.3	29.0	0.2	13.8
Motor-Homes	--	--	--	0.3	--	2.5
Motorcycles	--	--	1.6	0.3	--	14.6
MISCELLANEOUS						
Construction and Farming Operations	5.4	0.5	--	--	--	--
Paved and Unpaved Road Dust	16.6	2.5	--	--	--	--
Pesticides	--	--	1.0	--	--	--
Consumer Products (Excluding Pesticides)	--	--	8.9	--	--	--
Other Miscellaneous	6.9	4.8	4.0	1.8	0.5	50.2
GRAND TOTAL EMISSIONS	**43**	**20**	**84**	**131**	**4**	**459**

Biogenic emissions are not included in this table
The symbol -- means less than 0.1 tons/day

Table 9

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

CONTRA COSTA

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.5	0.3	0.1	0.3	6.1	--
Other Refining Processes	0.2	0.2	4.8	0.2	0.7	1.3
Fugitives	--	--	0.4	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.4	0.3	0.7	1.6	6.3	0.2
Food, Wine and Agricultural Processes	1.5	1.3	0.3	--	--	0.2
Metallurgical and Mineral Processes	0.5	0.3	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	--	--	0.4	--	--	--
Other Processes	0.4	0.2	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	3.3	--	--	--
Natural Gas Distribution	--	--	0.3	--	--	--
Bulk Plants	--	--	2.7	--	--	--
Gasoline Filling Stations	--	--	1.0	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.4	--	--	--
Degreasing	--	--	0.4	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.3	--	--	--
Adhesives and Sealants	--	--	0.9	--	--	--
Structures Coating	--	--	3.3	--	--	--
Industrial/Commercial Coatings	--	--	1.4	--	--	--
Other Evaporation	--	--	3.4	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	5.4	5.2	2.3	2.4	0.1	38.3
Cogeneration	0.5	0.5	1.0	2.4	0.1	1.3
Power Plants	0.1	0.1	--	0.5	--	1.0
Refineries	1.5	1.5	0.4	9.2	7.7	3.9
Other Fuels Combustion	0.9	0.9	0.7	7.4	0.8	5.7
Waste Burning and Incineration	--	--	--	0.1	--	0.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.1	0.1	3.3	1.1	--	18.8
Industrial Equipmen	--	--	0.2	1.0	--	3.3
Light Commercial Equipmen	--	--	0.8	0.9	--	10.6
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.8	0.8	2.2	13.2	0.1	9.5
Locomotives	--	--	0.3	3.3	--	0.6
Off-Road Motorcycles and 4-Wheel Drives	--	--	0.2	--	--	0.8
Ships and Boats	0.4	0.4	4.1	5.7	0.9	23.0
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	1.6
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.9	0.5	16.0	15.9	0.1	159.4
Medium and Heavy Duty Trucks <33000 lbs	0.2	0.2	2.2	7.2	--	23.0
Heavy Duty Diesel Trucks/Buses>33000 lbs	0.4	0.4	0.9	10.7	--	7.0
Motor-Homes	--	--	--	0.2	--	1.9
Motorcycles	--	--	1.5	0.3	--	13.8
MISCELLANEOUS						
Construction and Farming Operations	4.7	0.5	--	--	--	--
Paved and Unpaved Road Dust	12.4	1.8	--	--	--	--
Pesticides	--	--	0.7	--	--	--
Consumer Products (Excluding Pesticides)	--	--	6.0	--	--	--
Other Miscellaneous	2.6	1.1	1.3	0.3	--	8.4
GRAND TOTAL EMISSIONS	**35**	**17**	**68**	**84**	**23**	**334**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 10

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

MARIN

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	--	--	--	--
Food, Wine and Agricultural Processes	0.4	0.4	--	--	--	--
Metallurgical and Mineral Processes	0.2	--	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	--	--	0.2	--	--	--
Other Processes	--	--	0.1	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	0.3	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.2	--	--	--
Degreasing	--	--	--	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.2	--	--	--
Adhesives and Sealants	--	--	0.3	--	--	--
Structures Coating	--	--	0.9	--	--	--
Industrial/Commercial Coatings	--	--	0.3	--	--	--
Other Evaporation	--	--	0.5	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	1.4	1.4	0.9	0.8	--	9.2
Cogeneration	--	--	--	--	--	--
Power Plants	--	--	--	--	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	--	--	--	0.4	--	0.4
Waste Burning and Incineration	--	--	--	--	--	0.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	1.2	0.3	--	7.1
Industrial Equipmen	--	--	--	0.2	--	0.7
Light Commercial Equipmen	--	--	0.4	0.4	--	4.9
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.2	0.2	0.5	3.0	--	2.2
Locomotives	--	--	--	--	--	--
Off-Road Motorcycles and 4-Wheel Drives	--	--	--	--	--	0.1
Ships and Boats	0.5	0.5	3.4	3.4	1.8	9.6
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	1.1
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.2	0.1	4.4	4.1	--	40.8
Medium and Heavy Duty Trucks <33000 lbs	--	--	0.7	2.0	--	6.6
Heavy Duty Diesel Trucks/Buses>33000 lbs	--	--	0.2	2.6	--	2.3
Motor-Homes	--	--	--	--	--	0.5
Motorcycles	--	--	0.4	--	--	3.3
MISCELLANEOUS						
Construction and Farming Operations	0.7	--	--	--	--	--
Paved and Unpaved Road Dust	3.9	0.5	--	--	--	--
Pesticides	--	--	0.2	--	--	--
Consumer Products (Excluding Pesticides)	--	--	1.5	--	--	--
Other Miscellaneous	1.3	0.2	0.8	--	--	0.3
GRAND TOTAL EMISSIONS	**9**	**4**	**18**	**17**	**2**	**89**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 11

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

NAPA

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	--	--	--	--
Food, Wine and Agricultural Processes	0.3	0.3	0.8	--	--	--
Metallurgical and Mineral Processes	0.1	--	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	--	--	0.3	--	--	--
Other Processes	--	--	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	0.2	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.1	--	--	--
Degreasing	--	--	0.2	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	--	--	--	--
Adhesives and Sealants	--	--	0.2	--	--	--
Structures Coating	--	--	0.4	--	--	--
Industrial/Commercial Coatings	--	--	0.2	--	--	--
Other Evaporation	--	--	0.2	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	0.8	0.7	0.4	0.3	--	5.2
Cogeneration	--	--	--	0.1	--	--
Power Plants	--	--	--	--	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	--	--	--	0.4	--	0.4
Waste Burning and Incineration	--	--	--	--	--	0.7
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	0.5	0.2	--	2.7
Industrial Equipmen	--	--	--	0.2	--	0.7
Light Commercial Equipmen	--	--	0.1	0.1	--	1.7
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.2	0.2	0.5	2.6	--	2.3
Locomotives	--	--	--	0.5	--	0.1
Off-Road Motorcycles and 4-Wheel Drives	--	--	--	--	--	0.2
Ships and Boats	0.1	0.1	2.4	0.6	--	12.6
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	1.2
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.1	--	3.4	3.1	--	33.4
Medium and Heavy Duty Trucks <33000 lbs	--	--	0.6	1.7	--	5.8
Heavy Duty Diesel Trucks/Buses>33000 lbs	--	--	0.2	1.8	--	1.7
Motor-Homes	--	--	--	--	--	0.5
Motorcycles	--	--	0.3	--	--	1.9
MISCELLANEOUS						
Construction and Farming Operations	1.5	0.2	--	--	--	--
Paved and Unpaved Road Dust	2.3	0.3	--	--	--	--
Pesticides	--	--	0.4	--	--	--
Consumer Products (Excluding Pesticides)	--	--	0.8	--	--	--
Other Miscellaneous	2.6	0.4	0.7	--	--	0.4
GRAND TOTAL EMISSIONS	**8**	**3**	**13**	**12**	**0**	**72**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 12

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

SAN FRANCISCO
Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	0.1	--	--	--
Food, Wine and Agricultural Processes	2.6	2.4	0.4	--	--	--
Metallurgical and Mineral Processes	0.3	0.2	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	--	--	--	--	--	--
Other Processes	--	--	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	0.9	--	--	--
Aircraft, Boats and Other Refueling	--	--	--	--	--	--
Degreasing	--	--	0.3	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.3	--	--	--
Adhesives and Sealants	--	--	1.6	--	--	--
Structures Coating	--	--	2.7	--	--	--
Industrial/Commercial Coatings	--	--	1.1	--	--	--
Other Evaporation	--	--	1.8	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	0.5	0.5	0.2	1.7	--	3.2
Cogeneration	--	--	--	0.2	--	0.1
Power Plants	--	--	--	1.0	--	0.6
Refineries	--	--	--	--	--	--
Other Fuels Combustion	0.2	0.2	0.2	1.8	--	1.1
Waste Burning and Incineration	--	--	--	--	--	--
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	2.3	0.8	--	13.1
Industrial Equipmen	--	--	0.3	1.6	--	5.2
Light Commercial Equipmen	0.1	0.1	1.3	1.5	--	17.6
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.7	0.7	2.0	12.0	--	8.4
Locomotives	--	--	0.1	1.3	--	0.2
Off-Road Motorcycles and 4-Wheel Drives	--	--	--	--	--	--
Ships and Boats	0.8	0.8	2.2	10.1	4.8	8.3
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	--
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.5	0.3	8.6	7.8	--	81.3
Medium and Heavy Duty Trucks <33000 lbs	0.2	0.1	1.3	5.7	--	13.3
Heavy Duty Diesel Trucks/Buses>33000 lbs	--	--	0.5	4.3	--	5.1
Motor-Homes	--	--	--	--	--	0.5
Motorcycles	--	--	0.8	0.2	--	5.0
MISCELLANEOUS						
Construction and Farming Operations	2.8	0.3	--	--	--	--
Paved and Unpaved Road Dust	5.7	0.9	--	--	--	--
Pesticides	--	--	0.5	--	--	--
Consumer Products (Excluding Pesticides)	--	--	4.7	--	--	--
Other Miscellaneous	0.6	0.2	0.2	--	--	0.3
GRAND TOTAL EMISSIONS	**15**	**7**	**35**	**50**	**5**	**163**

Biogenic emissions are not included in this tabl
The symbol -- means less than 0.1 tons/da

Table 13

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

SAN MATEO

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	0.1	--	--	--
Food, Wine and Agricultural Processes	1.4	1.3	0.3	--	--	--
Metallurgical and Mineral Processes	0.4	0.3	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	0.2	--	0.5	--	--	--
Other Processes	--	--	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	1.0	--	--	--
Aircraft, Boats and Other Refueling	--	--	1.0	--	--	--
Degreasing	--	--	0.5	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.7	--	--	--
Adhesives and Sealants	--	--	1.0	--	--	--
Structures Coating	--	--	2.5	--	--	--
Industrial/Commercial Coatings	--	--	1.0	--	--	--
Other Evaporation	--	--	1.4	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	1.2	1.2	0.6	1.5	--	8.1
Cogeneration	--	--	--	--	--	--
Power Plants	--	--	--	--	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	0.2	0.2	0.2	1.6	--	1.9
Waste Burning and Incineration	--	--	--	--	--	0.1
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	2.3	0.7	--	13.0
Industrial Equipmen	--	--	0.3	1.3	--	4.3
Light Commercial Equipmen	--	--	0.8	0.9	--	10.8
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.5	0.4	1.3	7.5	--	5.4
Locomotives	--	--	--	1.2	--	0.2
Off-Road Motorcycles and 4-Wheel Drives	--	--	--	--	--	0.4
Ships and Boats	1.7	1.6	1.9	20.1	11.5	5.0
Commercial Aircraft/Ground Support Equipmen	0.1	0.1	1.9	10.5	0.1	12.8
General Aviation & Agricultural Aircraft	--	--	--	--	--	1.9
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.6	0.4	11.7	11.6	--	116.1
Medium and Heavy Duty Trucks <33000 lbs	0.2	0.1	1.7	6.0	--	17.1
Heavy Duty Diesel Trucks/Buses>33000 lbs	--	--	0.3	2.9	--	3.6
Motor-Homes	--	--	--	--	--	0.8
Motorcycles	--	--	0.9	0.2	--	7.9
MISCELLANEOUS						
Construction and Farming Operations	2.0	0.2	--	--	--	--
Paved and Unpaved Road Dust	10.1	1.4	--	--	--	--
Pesticides	--	--	0.5	--	--	--
Consumer Products (Excluding Pesticides)	--	--	4.3	--	--	--
Other Miscellaneous	1.0	0.3	0.3	--	--	0.8
GRAND TOTAL EMISSIONS	**20**	**8**	**39**	**66**	**12**	**210**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 14

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

SANTA CLARA

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	0.2	--	--	--
Food, Wine and Agricultural Processes	3.2	3.0	0.4	--	--	--
Metallurgical and Mineral Processes	1.3	0.9	--	--	--	0.2
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	0.2	--	2.0	--	--	--
Other Processes	--	--	0.8	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	0.3	--	--	--
Gasoline Filling Stations	--	--	1.8	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.7	--	--	--
Degreasing	--	--	2.5	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.5	--	--	--
Adhesives and Sealants	--	--	2.8	--	--	--
Structures Coating	--	--	5.9	--	--	--
Industrial/Commercial Coatings	--	--	3.0	--	--	--
Other Evaporation	--	--	2.9	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	4.1	4.0	1.8	3.4	0.1	28.9
Cogeneration	0.2	0.2	0.2	0.9	--	1.2
Power Plants	--	--	--	0.1	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	0.5	0.5	0.5	8.5	1.0	14.1
Waste Burning and Incineration	--	--	--	--	--	0.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.2	0.2	5.4	1.8	--	30.4
Industrial Equipmen	0.3	0.3	1.9	10.2	--	32.8
Light Commercial Equipmen	0.2	0.2	1.6	1.8	--	22.2
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	1.0	1.0	2.8	16.6	0.1	12.3
Locomotives	--	--	0.2	2.8	--	0.5
Off-Road Motorcycles and 4-Wheel Drives	--	--	0.3	--	--	2.0
Ships and Boats	--	--	1.1	0.4	--	8.9
Commercial Aircraft/Ground Support Equipmen	--	--	0.4	2.4	--	2.8
General Aviation & Agricultural Aircraft	--	--	0.2	--	--	4.4
Military Aircraft	--	--	0.3	0.1	--	1.0
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	1.4	0.8	27.4	25.8	0.2	263.8
Medium and Heavy Duty Trucks <33000 lbs	0.4	0.3	3.6	12.0	0.1	36.5
Heavy Duty Diesel Trucks/Buses>33000 lbs	0.5	0.5	1.3	13.9	0.1	10.3
Motor-Homes	--	--	0.1	0.4	--	3.0
Motorcycles	--	--	1.9	0.4	--	14.9
MISCELLANEOUS						
Construction and Farming Operations	5.6	0.6	--	--	--	--
Paved and Unpaved Road Dust	25.0	3.4	--	--	--	--
Pesticides	--	--	1.3	--	--	--
Consumer Products (Excluding Pesticides)	--	--	10.3	--	--	--
Other Miscellaneous	3.2	0.7	0.8	--	--	1.2
GRAND TOTAL EMISSIONS	**48**	**17**	**87**	**102**	**2**	**491**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 15

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

SOLANO

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.3	0.2	--	--	17.1	--
Other Refining Processes	--	--	0.3	--	0.2	--
Fugitives	--	--	0.2	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	--	--	--	--
Food, Wine and Agricultural Processes	1.0	0.9	0.2	--	--	--
Metallurgical and Mineral Processes	0.2	--	--	--	--	--
Gas and Oil Production Fields	--	--	0.1	--	--	--
Waste Management	0.1	--	0.3	--	--	--
Other Processes	--	--	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	0.2	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	0.3	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.4	--	--	--
Degreasing	--	--	0.2	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	--	--	--	--
Adhesives and Sealants	--	--	0.2	--	--	--
Structures Coating	--	--	1.0	--	--	--
Industrial/Commercial Coatings	--	--	1.0	--	--	--
Other Evaporation	--	--	0.9	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	0.9	0.9	0.4	0.6	--	6.6
Cogeneration	--	--	--	--	--	--
Power Plants	--	--	--	--	--	--
Refineries	0.3	0.3	--	4.5	0.2	0.8
Other Fuels Combustion	0.2	0.2	0.1	1.9	--	1.6
Waste Burning and Incineration	--	--	--	--	--	0.2
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	0.7	0.3	--	3.7
Industrial Equipmen	--	--	--	0.3	--	0.8
Light Commercial Equipmen	--	--	0.2	0.2	--	2.7
Oil Drilling Equipmen	--	--	0.2	1.9	--	0.7
Farm and Construction Equipmen	0.3	0.2	0.7	4.1	--	3.4
Locomotives	--	--	--	0.7	--	0.1
Off-Road Motorcycles and 4-Wheel Drives	--	--	--	--	--	0.3
Ships and Boats	0.2	0.2	1.8	1.3	0.4	5.7
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	--
Military Aircraft	0.2	0.2	3.0	4.8	0.2	6.5
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.2	0.1	4.2	4.2	--	41.8
Medium and Heavy Duty Trucks <33000 lbs	--	--	0.7	2.3	--	7.3
Heavy Duty Diesel Trucks/Buses>33000 lbs	0.2	0.2	0.4	5.0	--	2.6
Motor-Homes	--	--	--	--	--	0.6
Motorcycles	--	--	0.4	--	--	4.2
MISCELLANEOUS						
Construction and Farming Operations	3.2	0.3	--	--	--	--
Paved and Unpaved Road Dust	3.7	0.5	--	--	--	--
Pesticides	--	--	0.2	--	--	--
Consumer Products (Excluding Pesticides)	--	--	1.8	--	--	--
Other Miscellaneous	2.5	0.5	0.2	--	--	0.6
GRAND TOTAL EMISSIONS	**14**	**5**	**21**	**32**	**18**	**90**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 16

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2005

SONOMA

Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	--	--	--	--	--	--
Other Refining Processes	--	--	--	--	--	--
Fugitives	--	--	--	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	--	--	--	--	--	--
Food, Wine and Agricultural Processes	1.0	0.9	0.6	--	--	--
Metallurgical and Mineral Processes	0.3	0.2	--	--	--	--
Gas and Oil Production Fields	--	--	--	--	--	--
Waste Management	--	--	0.8	--	--	--
Other Processes	--	--	--	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	--	--	--	--
Natural Gas Distribution	--	--	--	--	--	--
Bulk Plants	--	--	--	--	--	--
Gasoline Filling Stations	--	--	0.4	--	--	--
Aircraft, Boats and Other Refueling	--	--	0.2	--	--	--
Degreasing	--	--	0.4	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	0.1	--	--	--
Adhesives and Sealants	--	--	0.4	--	--	--
Structures Coating	--	--	1.4	--	--	--
Industrial/Commercial Coatings	--	--	0.8	--	--	--
Other Evaporation	--	--	0.7	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	2.8	2.7	1.4	1.0	--	18.8
Cogeneration	--	--	--	--	--	0.1
Power Plants	--	--	--	--	--	--
Refineries	--	--	--	--	--	--
Other Fuels Combustion	--	--	--	0.7	--	0.8
Waste Burning and Incineration	0.2	0.2	0.2	--	--	1.4
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	--	--	1.3	0.5	--	7.4
Industrial Equipmen	--	--	0.1	0.8	--	2.4
Light Commercial Equipmen	--	--	0.4	0.4	--	5.2
Oil Drilling Equipmen	--	--	--	--	--	--
Farm and Construction Equipmen	0.4	0.4	1.1	6.1	--	4.8
Locomotives	--	--	--	0.6	--	0.1
Off-Road Motorcycles and 4-Wheel Drives	--	--	0.1	--	--	0.7
Ships and Boats	--	--	1.6	0.5	--	8.1
Commercial Aircraft/Ground Support Equipmen	--	--	--	--	--	--
General Aviation & Agricultural Aircraft	--	--	--	--	--	1.5
Military Aircraft	--	--	--	--	--	--
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.4	0.2	8.5	7.8	--	80.8
Medium and Heavy Duty Trucks <33000 lbs	0.1	0.1	1.6	5.0	--	15.6
Heavy Duty Diesel Trucks/Buses>33000 lbs	--	--	0.3	2.2	--	3.1
Motor-Homes	--	--	--	0.2	--	1.1
Motorcycles	--	--	0.8	0.2	--	6.2
MISCELLANEOUS						
Construction and Farming Operations	2.2	0.2	--	--	--	--
Paved and Unpaved Road Dust	5.2	0.8	--	--	--	--
Pesticides	--	--	0.5	--	--	--
Consumer Products (Excluding Pesticides)	--	--	2.8	--	--	--
Other Miscellaneous	4.0	0.6	1.1	--	--	0.5
GRAND TOTAL EMISSIONS	**17**	**7**	**28**	**26**	**0**	**159**

Biogenic emissions are not included in this tabl

The symbol -- means less than 0.1 tons/da

Table 17

Bay Area Air Quality Management District
Summary of Emissions by Source Category
Year 2008

Projected
Bay Area
Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining	0.8	0.5	0.2	0.3	23.9	--
Other Refining Processes	0.2	0.2	4.1	0.3	0.9	1.3
Fugitives	--	--	0.6	--	--	--
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.6	1.6	6.7	0.3
Food, Wine and Agricultural Processes	14.6	13.5	3.8	--	--	0.2
Metallurgical and Mineral Processes	4.8	3.1	0.2	0.2	0.2	0.4
Gas and Oil Production Fields	--	--	0.2	--	--	--
Waste Management	1.2	0.3	5.7	--	--	--
Other Processes	0.8	0.5	1.7	--	--	--
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	--	--	3.6	--	--	--
Natural Gas Distribution	--	--	0.6	--	--	--
Bulk Plants	--	--	1.8	--	--	--
Gasoline Filling Stations	--	--	6.0	--	--	--
Aircraft, Boats and Other Refueling	--	--	3.9	--	--	--
Degreasing	--	--	5.5	--	--	--
Dry Cleaners	--	--	--	--	--	--
Printing	--	--	3.0	--	--	--
Adhesives and Sealants	--	--	9.4	--	--	--
Structures Coating	--	--	23.6	--	--	--
Industrial/Commercial Coatings	--	--	13.6	--	--	--
Other Evaporation	--	--	12.4	--	--	--
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	20.3	19.6	9.2	14.8	0.6	140.6
Cogeneration	0.9	0.8	1.4	4.2	0.2	3.8
Power Plants	0.4	0.4	--	2.2	0.1	2.1
Refineries	1.8	1.8	0.5	14.1	8.1	4.9
Other Fuels Combustion	2.5	2.5	2.1	25.4	2.8	25.5
Waste Burning and Incineration	0.5	0.5	0.4	0.4	--	3.4
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.8	0.8	18.9	7.4	--	120.8
Industrial Equipment	0.5	0.5	2.7	15.0	--	61.8
Light Commercial Equipment	0.7	0.7	6.0	7.3	--	90.9
Oil Drilling Equipment	--	--	0.1	1.8	--	0.7
Farm and Construction Equipment	4.2	4.1	11.6	72.1	--	56.3
Locomotives	0.3	0.3	1.0	12.3	0.2	2.0
Off-Road Motorcycles and 4-Wheel Drives	--	--	0.8	--	--	5.0
Ships and Boats	5.8	5.7	22.1	74.1	24.3	94.4
Commercial Aircraft/Ground Support Equipment	0.2	0.2	3.6	21.2	0.3	26.2
General Aviation & Agricultural Aircraft	--	--	0.7	0.4	--	16.5
Military Aircraft	0.3	0.3	3.3	4.9	0.3	7.6
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.8	3.5	84.9	78.6	0.7	816.6
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	12.8	47.5	0.2	127.4
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.2	1.9	5.6	64.7	--	41.0
Motor-Homes	--	--	0.3	1.2	--	8.6
Motorcycles	--	--	7.8	2.0	--	69.4
MISCELLANEOUS						
Construction and Farming Operations	28.1	2.9	--	--	--	--
Paved and Unpaved Road Dust	88.4	12.6	--	--	--	--
Pesticides	--	--	5.3	--	--	--
Consumer Products (Excluding Pesticides)	--	--	42.0	--	--	--
Other Miscellaneous	24.1	8.3	9.1	2.0	0.6	56.9
GRAND TOTAL EMISSIONS	**212**	**87**	**354**	**476**	**70**	**1785**

Biogenic emissions are not included in this table
The symbol -- means less than 0.1 tons/da

Table 18

MAJOR EMITTING FACILITIES

The following list shows the facilities that emit more than 0.05 tons/day of any criteria pollutant in 2005. The emissions are the total for the facility at the site indicated. The sole purpose of this list is to show major facilties; it is **NOT** a list of those who violate the District's regulations.

2005 Annual Average Emissions

The symbol -- indicates a quantity less than 0.01 tons/day.

				tons/day					
COUNTY/CITY	PLANT #	PLANT NAME	ZIPCODE	PM_{10}	$PM_{2.5}$	ROG	NO_X	SO_2	CO
Alameda									
Berkeley	703	Pacific Steel Casting Company-Plant #2	94710	0.01	--	0.08	0.02	--	--
	11326	PE Berkeley, Inc.	94720	0.04	0.04	0.06	0.21	--	0.50
Fremont	589	Dumbarton Quarry Associates	94537	0.02	--	0.01	0.05	--	0.13
	1438	New United Motor Manufacturing	94538	--	--	1.89	0.07	--	0.02
	2246	Tri-Cities Recycling	94538	0.04	0.01	0.04	0.02	--	0.10
Hayward	501	Valspar Coatings	94544	--	--	0.05	--	--	--
	837	Gillig Corporation	94545	--	--	0.08	--	--	--
	1009	Hayward Waste Water Treatment	94545	0.02	0.02	0.02	0.08	--	0.04
	9576	Stiles Paint Manufacturing Inc.	94545	--	--	0.05	--	--	--
Livermore	2066	Waste Management of Alameda County	94551	0.25	0.08	0.12	0.20	0.03	0.44
	5095	Republic Services Vasco Road, LLC	94550	0.05	0.01	0.06	0.04	0.01	0.16
Newark	79	Morton International Inc.	94560	0.07	0.07	--	0.01	--	0.05
	94	Cargill Salt	94560	0.06	0.05	--	0.02	--	0.02
	153	PABCO Gypsum	94560	0.04	0.03	--	0.12	--	0.03
	273	Pechiney Plastic Packaging, Inc.	94560	--	--	0.05	--	--	--
Oakland	30	Owens-Brockeway Glass Container	94601	0.38	0.38	--	1.37	0.17	0.05
	62	American Brass & Iron Foundry	94621	0.04	0.02	0.18	0.12	0.18	0.12
	532	The Earthgrains Company	94606	--	0.01	0.07	--	--	--
	591	East Bay Municipal Utility District	94607	0.01	0.01	0.03	0.13	0.07	0.45
	2743	CEMEX	94606	0.05	0.04	--	--	--	--
	11887	Duke Energy Oakland LLC	94607	0.03	0.03	--	0.14	0.01	0.01
	12387	Trans Bay Container Terminal	94607	--	--	--	0.09	--	0.02
	15023	Cleveland Steel Container	94601	--	--	0.09	--	--	--
Pleasanton	3358	CEMEX	94566	0.07	0.05	--	--	--	--
San Leandro	401	Pechiney Plastic Packaging, Inc.	94577	--	--	0.07	--	--	--
	2773	Davis Street SMART	94577	0.05	0.03	--	--	--	--
	4784	Ghirardelli Chocolate Company	94578	0.01	--	0.01	0.08	--	0.01
	10960	Strategic Materials, Inc.	94577	0.07	0.06	--	--	--	--
	12177	Dependable Furniture Manufacturing	94577	--	--	0.05	--	--	--
	12728	Waste Management Inc.	94577	--	--	0.03	0.01	--	0.06
	13070	Vertis, Inc.	94577	--	--	0.06	--	--	--
Union City	83	United States Pipe & Foundry Company	94587	0.02	0.01	0.09	0.24	0.36	0.06
	1209	Union Sanitary District	94587	--	--	0.01	0.06	0.02	0.16
Contra Costa									
Antioch	18	Mirant Delta, LLC	94509	0.01	0.01	--	0.07	--	0.19
	173	Georgia Pacific Gypsum LLC	94509	0.09	0.05	--	0.05	--	0.03
	1258	Delta Diablo Sanitation District	94509	--	--	--	0.02	--	0.05
	3245	GWF Power Systems,LP (Site 3)	94509	0.02	0.01	--	0.13	0.14	0.07
	3981	GWF Power Systems,LP (Site 4)	94509	0.02	0.01	--	0.10	0.08	0.11
	14327	Silgan Containers Manufacturing Corporation	94509	--	--	0.07	--	--	--
	16199	Gaylord Container Corporation	94509	0.02	0.02	0.03	0.04	--	0.14
Clayton	896	Hanson Aggregates	94517	0.05	0.01	--	--	--	--
Concord	541	Pacific Gas & Electric Company	94520	--	--	--	0.10	--	0.10
	1605	ChevronTexaco Business and Real Estate	94520	--	--	--	0.04	--	0.05
Crockett	581	ST Shore Terminals LLC	94525	--	--	0.05	--	--	--
	8664	Crockett Cogeneration	94525	0.07	0.06	0.02	0.23	0.01	0.11

COUNTY/CITY	PLANT #	PLANT NAME	ZIPCODE	tons/day					
				PM_{10}	$PM_{2.5}$	ROG	NO_X	SO_2	CO
	17315	C & H Sugar Company, Inc.	94525	0.07	0.04	0.02	0.03	--	0.13
Martinez	11	Shell Martinez Refinery	94553	1.05	0.98	3.27	4.65	3.59	3.04
	907	Central Contra Costa Sanitary District	94553	0.01	0.01	0.04	0.18	--	0.07
	1820	Martinez Cogen Limited Partnership	94553	0.04	0.04	0.05	0.48	0.01	0.07
	11661	Rhodia Inc.	94553	0.04	0.03	--	0.05	0.66	0.01
	11956	Equilon Enterprises LLC	94553	--	--	0.05	--	--	--
	14628	Tesoro Refining and Marketing	94553	0.36	0.25	2.88	3.87	7.25	0.79
	17559	Pacific Atlantic Terminals LLC	94553	--	--	0.10	--	--	--
Pittsburg	12	Mirant Delta, LLC	94565	0.03	0.03	0.01	0.11	--	0.41
	31	Dow Chemical Company	94565	0.01	0.01	0.07	0.07	--	0.02
	227	Criterion Catalysts Company LP	94565	0.04	0.04	0.02	0.08	--	0.09
	2371	USS-POSCO Industries	94565	0.04	0.02	0.04	0.14	--	0.05
	3243	GWF Power Systems,LP (Site 1)	94565	0.02	0.01	--	0.13	0.14	0.07
	3244	GWF Power Systems,LP (Site 2)	94565	--	--	--	0.15	0.17	0.03
	3246	GWF Power Systems,LP (Site 5)	94565	0.02	0.01	--	0.13	0.15	0.06
	4618	Keller Canyon Landfill Company	94565	0.03	--	0.04	0.03	--	0.10
	11866	Los Medanos Energy Center	94565	0.07	0.07	--	0.27	0.02	0.44
	11928	Calpine Pittsburg LLC	94565	0.02	0.02	--	0.05	--	0.32
	12095	Delta Energy Center	94565	0.24	0.24	0.09	0.49	0.03	0.11
	13963	City of Pittsburg Corporation	94565	--	--	--	0.06	--	0.01
Richmond	10	Chevron Products Company	94802	0.62	0.57	5.18	3.20	4.29	1.60
	23	General Chemical West LLC	94801	--	--	--	--	0.57	--
	93	Safeway Stores Inc, Bakery Plant	94804	--	--	0.08	--	--	--
	706	New NGC, Inc.	94804	--	--	--	0.10	--	0.02
	935	Levin Richmond Terminal Corporation	94804	0.06	0.04	--	0.01	--	--
	1840	West Contra Costa County Landfill	94801	0.05	0.02	0.04	0.04	0.01	0.25
	2352	San Francisco Bay Area Rapid Transit Distrct	94801	0.08	0.05	--	--	--	--
	13002	Kinder Morgan Liquids Terminal	94804	--	--	0.05	--	--	--
	14368	The Beanery Inc.	94804	0.01	--	--	0.01	--	0.05
	14635	Steelscape	94806	--	--	0.15	0.02	--	--
	15693	ConocoPhillips	94804	--	--	0.15	--	--	--
Rodeo	16	ConocoPhillips - San Francisco Refinery	94572	0.34	0.33	0.83	0.92	1.12	0.85
	22	Conoco Phillips Refining Company	94572	0.16	0.16	--	1.46	3.32	0.01
Marin									
Corte Madera	1317	WinCup Holdings, Inc.	94925	--	--	0.09	--	--	--
Novato	1179	Redwood Landfill Inc.	94948	0.02	--	0.07	0.04	0.01	0.16
San Rafael	2898	Paragraphics	94903	--	--	0.06	--	--	--
	11036	Dutra Materials/San Rafael Rock Quarry	94901	0.07	0.02	--	--	--	--
Napa									
American Canyon	11671	Gas Recovery Systems, Inc.	94558	0.01	0.01	--	0.07	--	0.17
Calistoga	11247	Clover Flat Landfill Inc.	94515	0.03	--	--	0.02	--	0.05
Napa	1634	Napa State Hospital	94558	--	--	--	0.14	--	0.04
	2193	Midwestern Pipeline Services	94558	--	--	0.05	--	--	--
	10198	Marco Paper Products	94558	0.06	0.04	--	--	--	--
San Francisco									
	24	PG & E Co, Hunters Point Power Plant	94124	0.03	0.03	0.01	0.59	--	0.31
	26	Mirant Potrero, LLC	94107	0.03	0.05	0.01	0.37	0.05	0.28
	51	United Airlines, SF Maintenance Center	94128	0.07	0.07	0.15	0.33	--	0.13
	533	Darling International	94124	--	--	0.12	--	--	--
	568	San Francisco South East Treatment Plant	94124	--	--	0.02	0.06	0.03	0.02
	1784	San Francisco International Airport	94128	--	--	--	0.07	--	0.02
	2478	UCSF/Parnassus	94122	0.02	0.02	0.02	0.09	--	0.05
	3288	BAE Systems San Francisco Ship Repair, Inc.	94107	--	--	0.11	--	--	--
	5029	McGuire Furniture Company	94103	--	--	0.06	--	--	--
	9618	San Francisco State University, Main Campus	94132	--	--	--	0.03	--	0.08
	16151	NRG Energy Center LLC	94103	--	--	--	0.05	--	0.05

COUNTY/CITY	PLANT #	PLANT NAME	ZIPCODE	tons/day					
				PM_{10}	$PM_{2.5}$	ROG	NO_X	SO_2	CO
San Mateo									
Colma	1364	Cypress Amloc Land Co , Inc.	94014	--	--	0.03	0.01	--	0.05
Daly City	1507	North San Mateo County Sanitation District	94015	--	--	0.05	0.01	--	--
Half Moon Bay	2266	Browning-Ferris Industries of California	94019	0.13	0.04	0.14	0.09	0.03	0.36
Menlo Park	3011	IPT SRI Cogeneration Inc.	94025	--	--	0.02	0.06	--	0.08
	11668	Gas Recovery Systems, Inc.	94025	--	--	--	0.20	--	0.45
San Carlos	9565	Hatcher Trade Press Inc.	94070	--	--	0.05	--	--	--
South San Francisco	1257	Genentech, Inc.	94080	--	--	0.04	0.08	--	0.02
	1579	Granite Rock Company	94080	--	--	--	0.01	--	0.07
	6310	Cenveo Corporation	94080	--	--	0.06	--	--	--
	10289	Anderson Lithograph	94080	--	--	0.05	--	--	--
Woodside	2964	Langley Hill Quarry	94062	0.05	0.04	--	--	--	--
Santa Clara									
Cupertino	17	Hanson Permanente Cement	95014	0.24	0.17	0.03	3.74	0.85	8.83
Gilroy	11180	Calpine Gilroy Cogeneration	95020	0.01	0.01	--	0.21	--	0.04
	12812	Heartwood Cabinets	95020	--	--	0.09	--	--	--
Milpitas	9013	International Disposal Corporation	95035	0.10	0.03	0.02	0.06	0.02	0.26
Morgan Hill	1812	Kirby Canyon Landfill	95037	0.04	0.01	0.05	0.03	0.01	0.13
Mountain View	2740	City of Mountain View (Shoreline)	94043	--	--	0.06	0.04	0.01	0.18
	4272	El Camino Hospital	94040	--	--	--	0.07	--	0.02
Palo Alto	617	Palo Alto Regional Water Quality Plant	94303	--	--	0.01	0.06	--	--
	9794	WPI Packaging & Maintenance Company	94303	--	--	--	0.11	--	0.23
	15128	Cardinal Cogen Inc.	94305	0.07	0.07	0.11	0.30	--	0.25
San Jose	49	Chevron Products Company	95133	--	--	0.11	--	--	--
	85	Hitachi Global Storage Technologies	95193	--	--	0.06	0.03	--	0.02
	778	San Jose/Santa Clara Water Pollution	95134	0.03	0.03	0.07	0.36	0.02	0.65
	4020	SFPP, LP	95131	--	--	0.13	--	--	--
	6044	O L S Energy-Agnews	95134	0.02	0.02	0.04	0.06	--	0.05
	7265	San Jose State University (Cogen Plant)	95192	--	--	0.01	0.09	--	0.07
	11139	MMC Technology	95131	--	--	0.05	--	--	--
	11234	Gordon Biersch Brewing Company	95112	0.05	0.05	--	--	--	--
	11669	Gas Recovery Systems, Inc.	95120	--	--	--	0.19	--	0.36
	11670	Gas Recovery Systems, Inc.	95134	0.01	0.01	--	0.28	0.01	0.73
	13289	Los Esteros Critical Energy Facility	95134	0.05	0.05	0.01	0.06	--	0.03
	17888	Hubbell Lenoir City Inc.	95133	--	--	0.08	--	--	--
Santa Clara	41	Owens Corning Insulating Systems, LLC	95050	0.46	0.45	0.03	0.11	--	0.03
	621	City of Santa Clara, Silicon Valley Power	95050	0.01	0.01	0.03	0.16	--	0.12
	732	Bluegrass Mills Holding Company	95050	0.04	0.04	0.16	0.24	--	0.68
	1583	Pacific Recovery Corporation	95050	--	--	--	0.07	--	0.10
	9010	California Paperboard Corporation	95052	--	--	0.05	0.01	--	0.08
Sunnyvale	55	Lockheed Martin Corporation	94089	--	--	0.02	0.06	--	0.01
	733	City of Sunnyvale Water Pollution Control	94089	--	--	--	0.06	0.01	0.12
	13709	National Semiconductor Corporation	94086	--	--	0.07	--	--	--
Solano									
Benicia	12626	Valero Refining Company	94510	0.73	0.59	0.70	5.70	17.57	1.68
Fairfield	148	Ball Metal Beverage Container	94533	--	--	0.46	0.02	--	--
	606	Anheuser-Busch, Inc.	94533	0.13	0.08	0.09	0.04	--	0.32
	15802	Woodline Cabinets	94534	--	--	0.05	--	--	--
Suisun City	2039	Potrero Hills Landfill, Inc.	94585	0.14	0.03	0.03	0.01	--	0.02
Vallejo	128	Syar Industries, Inc.	94591	0.06	0.02	--	0.01	--	--
Sonoma									
Cotati	1541	Stony Point Rock Quarry, Inc.	94931	0.01	--	--	0.05	--	0.01
Petaluma	2254	Sonoma County Department of Public Works	94952	0.03	0.02	0.10	0.12	0.02	0.36
Santa Rosa	1403	City of Santa Rosa Wastewater Treatment	95407	--	--	0.01	0.09	--	0.18
	1486	Superior Supplies Inc.	95401	0.07	0.05	--	--	--	--
		Total		**8**	**6**	**20**	**35**	**41**	**30**