

# Air Quality Standards Compliance Report

November/December 2003  
and Summary Statistics for 2003

Vol. 16, No. 6

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## 2003 AIR QUALITY AND TRENDS

In 2003, the concentrations for ozone and particulate matter (PM10 and PM2.5) continued to exceed the ambient air quality standards in the South Coast Air Basin (Basin). Maximum 1-hour ozone concentration in the Basin (equivalent to an AQI level of 206) was the highest recorded over the past five years (since 1999), exceeding the standards for ozone by a wide margin. The high ozone concentration in the Basin in 2003 was mainly due to the weather condition in the area. Despite the year-to-year variations, long-term trend analysis shows significant downtrend in air pollutant concentrations throughout the Basin.

In 2003, ozone, PM10 and PM2.5 concentrations exceeded state and federal standards in the Basin. In Coachella Valley, comprising the desert areas of Riverside County downwind of the Basin (Salton Sea Air Basin), the standards for ozone and PM10 were exceeded.

(Preliminary data analysis for the year 2004 indicates lower ozone concentration, due in part to cooler temperatures. The number of exceedances recorded in 2004 is the lowest on the record since monitoring began in the region.)

### Maximum Pollutant Concentrations

Figure 1 shows the 2003 Basin maximum pollutant concentrations as percentages of the federal standards compared to other metropolitan areas in the U.S. The federal ozone, PM2.5 and PM10 standards were exceeded in some of these large U.S. urban areas. Carbon monoxide concentrations did not exceed the federal standards in any of the nation's metropolitan areas in 2003.

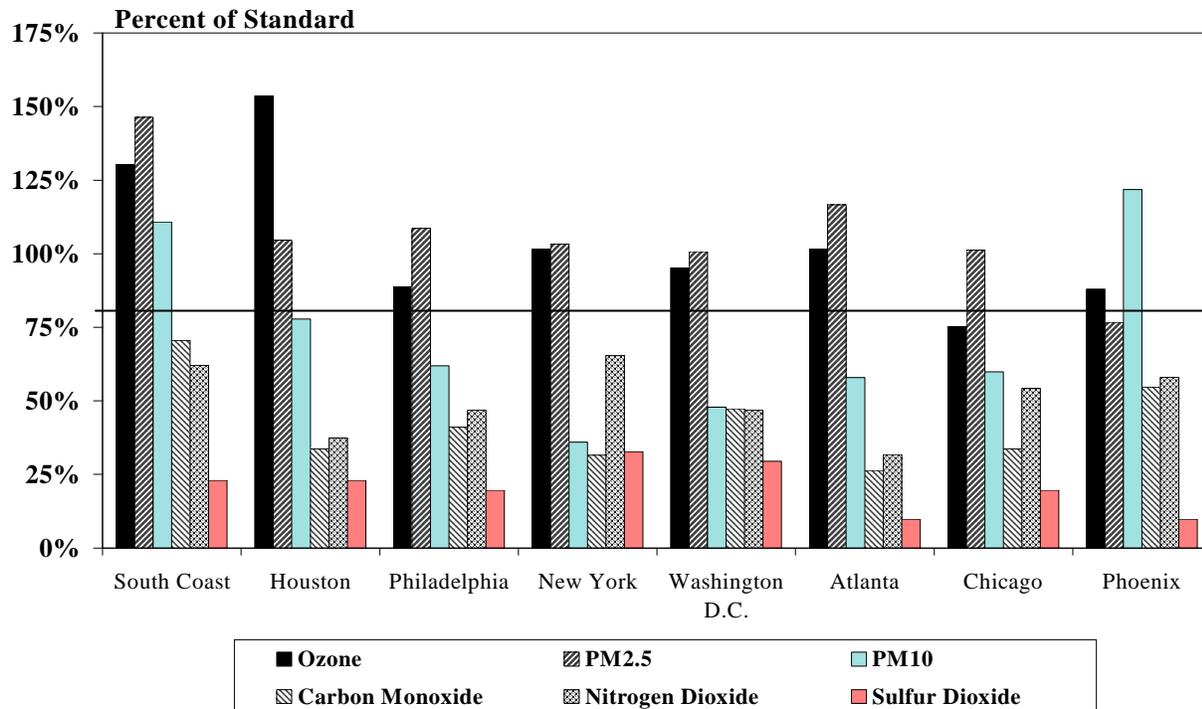


Figure 1  
Maximum Pollutant Concentrations in 2003 as Percent of Federal Standards  
South Coast Air Basin Compared to U.S. Metropolitan Areas



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<http://www.aqmd.gov>

The maximum 1-hour and 8-hour average ozone concentrations (0.216 ppm and 0.200 ppm, both recorded at a special monitoring site in the Central San Bernardino Mountains area) were 173% and 235% of the 1-hour and 8-hour federal standard, respectively. For the second year in the past three years (2001-2003), carbon monoxide concentrations did not exceed the standards in the Basin. The highest 8-hour average carbon monoxide concentration in 2003 (7.3 ppm, recorded in the South Central Los Angeles County area) was 77% of the federal standard. Maximum 24-hour average and annual average PM<sub>10</sub> concentrations in the Basin (164  $\mu\text{g}/\text{m}^3$  and 56.9  $\mu\text{g}/\text{m}^3$ , recorded in the Metropolitan Riverside County area) were 109% and 113% of the federal 24-hour and annual standards, respectively. Maximum 24-hour average and annual average PM<sub>2.5</sub> concentrations (121.2  $\mu\text{g}/\text{m}^3$ , in East San Gabriel Valley and 24.9  $\mu\text{g}/\text{m}^3$ , recorded in the Metropolitan Riverside County area) were 185% and 161% of the federal 24-hour and annual PM<sub>2.5</sub> standards, respectively.

The federal nitrogen dioxide standard was not exceeded in 2003, with a maximum annual average concentration (0.0356 ppm recorded in the East San Fernando Valley area) which was 67% of the standard. The more stringent state standard was not exceeded either, with a maximum 1-hour average concentration (0.16 ppm recorded in Central Los Angeles and North Orange County areas) which was 62% of the standard. Sulfur dioxide, sulfate and lead concentrations remained well below the state and federal standards in 2003.

(Annual Basin air quality statistics for 2003 are summarized on the "2003 Air Quality" data card.)

## **Comparison of Air Quality in Different Areas**

### **Ozone (O<sub>3</sub>)**

In 2003, the Basin exceeded the federal ozone standard more frequently than other areas of the U.S. Of the 15 highest U.S. locations in terms of number of days over the 1-hour federal ozone standard 12 were located in the Basin (maximum 38 days), the remaining three were in Kern County, Fresno County and the desert portion of the San Bernardino County. The next area with the greatest number of exceedances outside California was located in Texas (9 days).

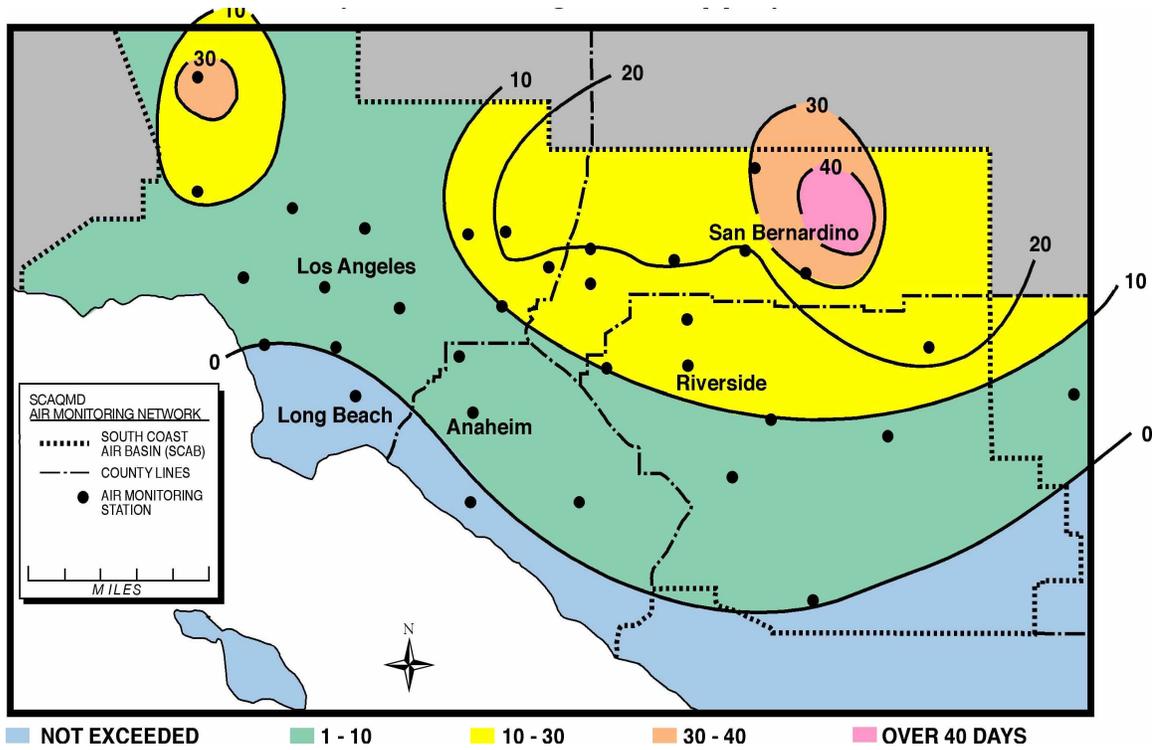
The number of exceedances in the Basin varies widely between different areas. Figures 2 and 3 show the number of days on which the 1-hour and 8-hour federal ozone standards were exceeded in different areas of the Basin in 2003. The 1-hour ozone standard was exceeded most frequently in the eastern portion of the San Bernardino Valley and central San Bernardino Mountains and in the Santa Clarita Valley areas of Los Angeles County. The coastal areas of Los Angeles and Orange Counties, and the farthest eastern portion of the Coachella Valley, recorded no exceedances of the 1-hour federal standard. However, most of these areas did exceed the more stringent 8-hour federal and 1-hour state standards. The long-term 8-hour average standard was exceeded most frequently in the Basin's Central San Bernardino Mountains and adjacent valley areas.

### **Particulate Matter (PM<sub>10</sub>)**

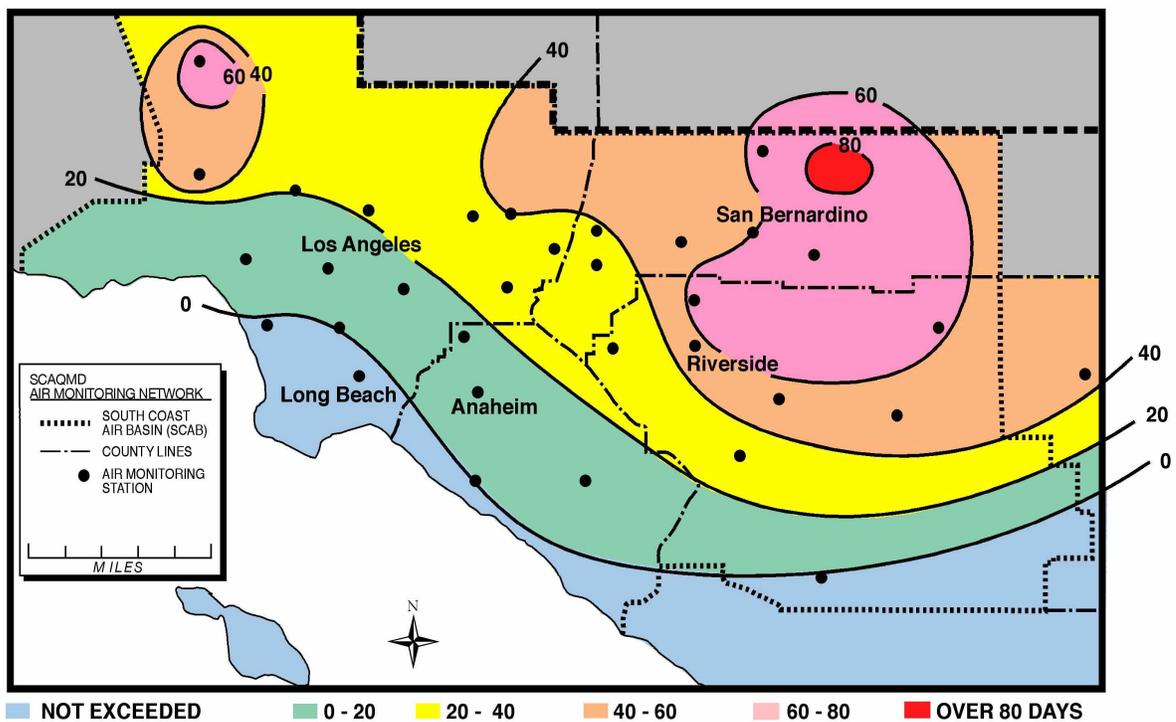
In 2003, the Basin was among the few metropolitan areas in the nation exceeding the federal annual and 24-hour average PM<sub>10</sub> standards. Figure 4 shows the 2003 annual average PM<sub>10</sub> concentrations at locations in the Basin. Exceedances of the PM<sub>10</sub> federal standards were limited to the metropolitan portion of Riverside County. The much more stringent state standards, however, were exceeded in virtually all areas of the Basin in 2003.

### **Particulate Matter (PM<sub>2.5</sub>)**

Figure 5 shows the distribution of annual average PM<sub>2.5</sub> concentrations in different areas of the Basin. In 2003, PM<sub>2.5</sub> concentrations exceeded the annual standard everywhere except the Central San Bernardino Mountains in the Basin. Highest PM<sub>2.5</sub> concentrations were recorded in the Metropolitan Riverside County areas extending to the inland valley areas of San Bernardino County. The recently adopted PM<sub>2.5</sub> state standard was also exceeded everywhere in the Basin except the Central San Bernardino Mountains area. Coachella Valley areas in the desert portion of the District did not exceed the PM<sub>2.5</sub> standards.



**Figure 2**  
**Ozone - 2003**  
 Number of Days Exceeding 1-Hour Federal Standard



**Figure 3**  
**Ozone - 2003**  
 Number of Days Exceeding 8-Hour Federal Standard

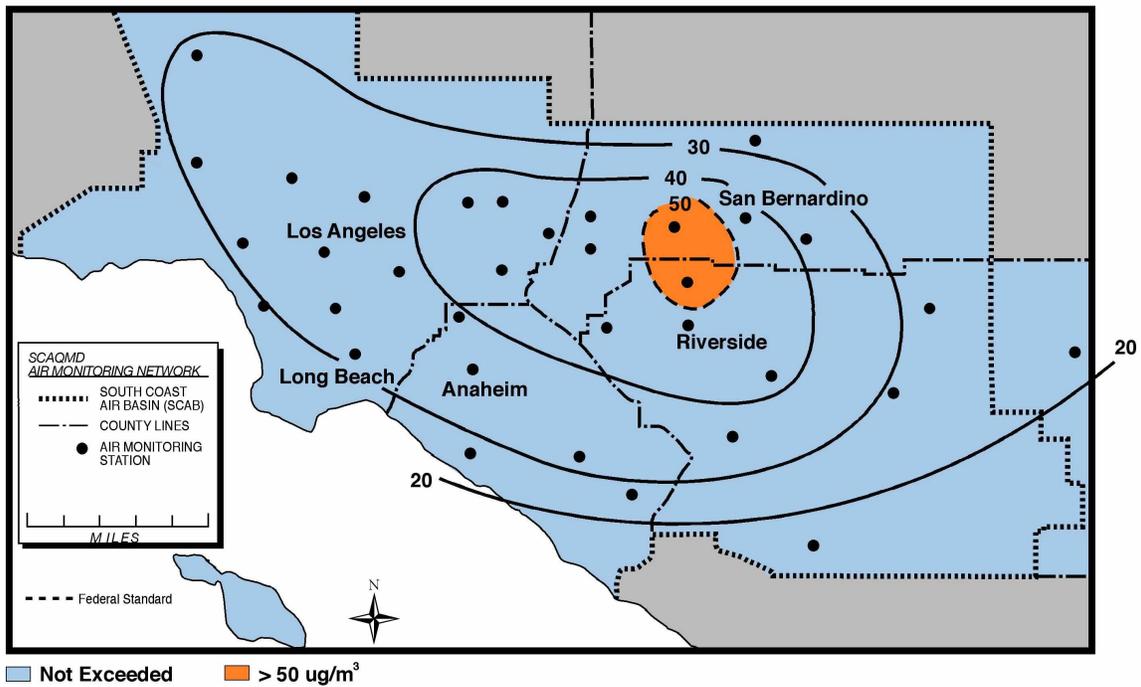


Figure 4  
 PM10 - 2003  
 Annual Arithmetic Mean,  $\mu\text{g}/\text{m}^3$

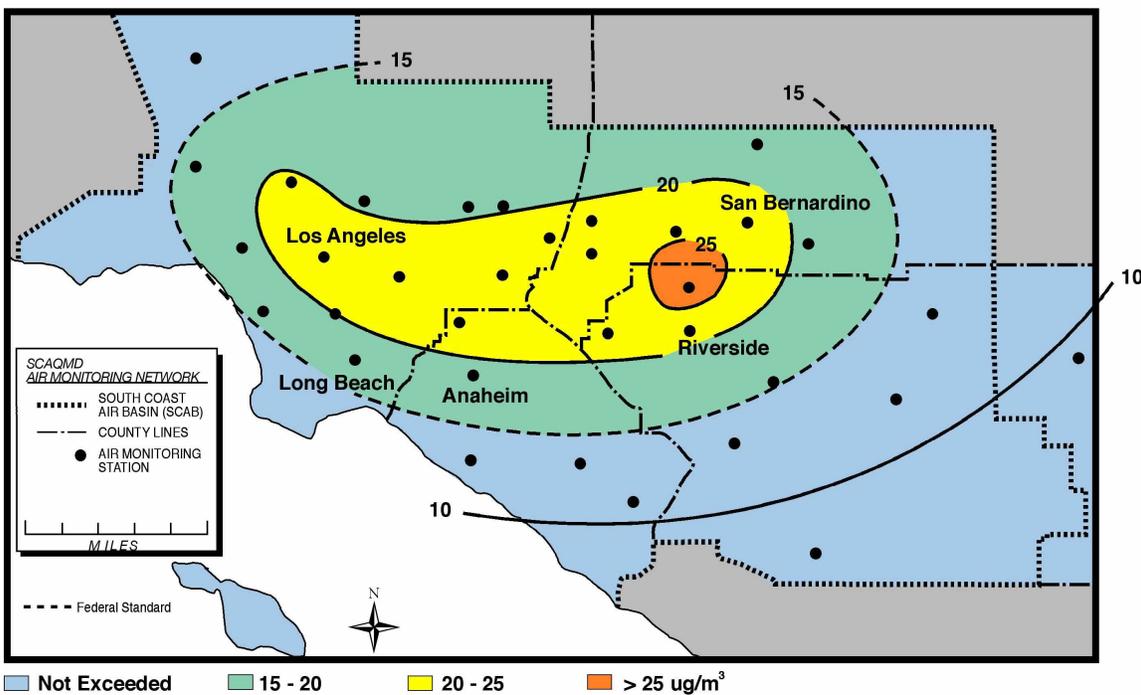


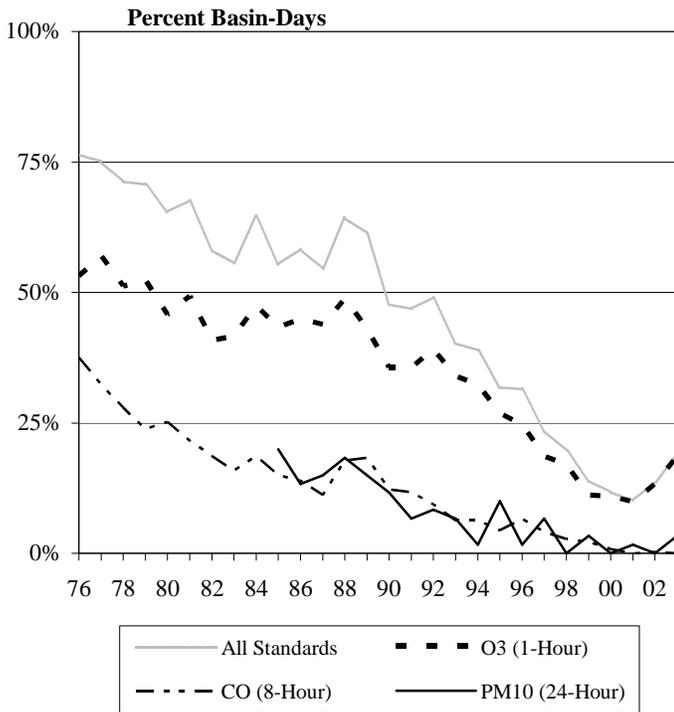
Figure 5  
 PM2.5 - 2003  
 Annual Arithmetic Mean,  $\mu\text{g}/\text{m}^3$

## Air Quality Trends Through 2003

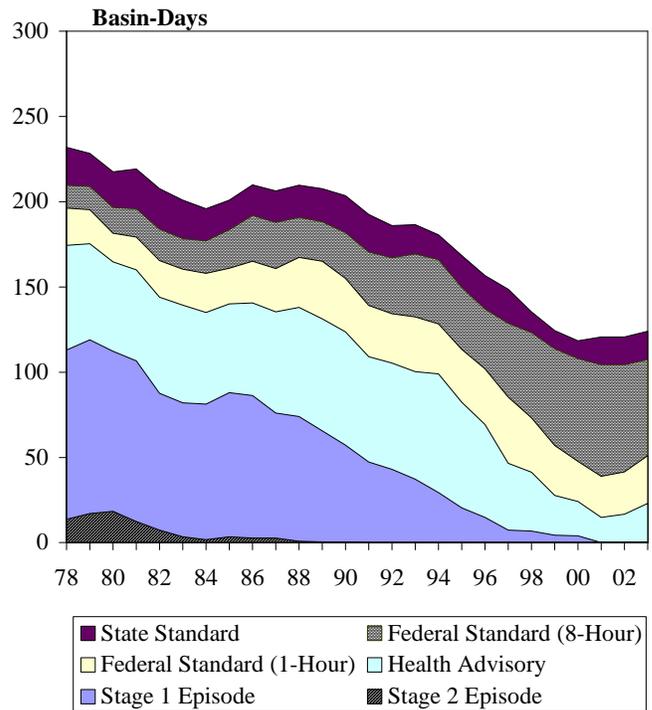
With the change in weather pattern from the mild summer conditions observed in the previous few years to a relatively warmer summer in 2003, air pollution levels in some areas of the Basin in 2003, were the highest in the past five years (1999-2003). The overall long-term trend in the Basin, however, showed continued improvement in air quality even with the 2003 increase in ozone concentration. Figure 6 shows the trend in percent number of days exceeding the federal standards in the Basin. Between 1976-1978 and 2001-2003, the three-year average number of days exceeding any of the federal standards for 1-hour ozone, 8-hour carbon monoxide or 24-hour PM10 in the Basin was reduced by 81%. ("All Standards" does not include exceedances of 24-hour PM2.5 and 8-hour ozone federal standards, and PM10 exceedances are not included until 1985.) The three-year average number of days exceeding the carbon monoxide federal standard was reduced by 99.7% for the same period. The number of sampling days exceeding the federal 24-hour PM10 standard decreased 90% between 1985-1987 and 2001-2003.

### Ozone Air Quality Trend

Figure 7 shows the three-year average number of days exceeding state and federal ozone standards and health advisory and episode levels in the Basin for the years 1976-2003. (Three-year averages are used to minimize the effect of year-to-year variations due to changes in meteorological conditions.) Between the periods 1976-1978 and 2001-2003, exceedances of state standard decreased 47%, exceedances of 1-hour and 8-hour federal standards decreased 74% and 49%, respectively. Health advisories decreased 87% and stage 1 episodes decreased 99.7%.



**Figure 6**  
**1976-2003**  
**Percent Basin-Days Exceeding the Federal Standards**



**Figure 7**  
**OZONE, 1978-2003**  
**Three-Year Average Number of Basin-Days Exceeding Standards and Episode Levels**

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This bimonthly publication satisfies the requirements for reporting on air quality in the South Coast Air Basin set by California legislation (Chapter 1301, Statutes of 1987; Health and Safety Code Section 40451(d)), and supplies similar information for the areas of the Salton Sea Air Basin (Coachella Valley) served by the District.

Beginning with the January 2003 issue, Air Quality Standards Compliance Reports (AQSCRs) will be published bimonthly in accordance with the above Health and Safety Code: "Once every two months and annually, the south coast district shall report on the number of days and locations the federal and state ambient air quality standards were exceeded...." The tables showing statistics for each individual month are included at the end of each report.

### November and December 2003 Air Quality

Air quality statistics in the South Coast Air Basin and the desert area of Coachella Valley in the Salton Sea Air Basin for the months of November and December are shown and summarized in the following figures and tables.

Table 1 below shows the state and federal ambient air quality standards for criteria pollutants, the maximum concentrations recorded during November/December 2003 and the location where the maximum concentration was recorded.

**Table 1. Maximum Concentrations Reported in November/December 2003 Compared to the Ambient Air Quality Standards**

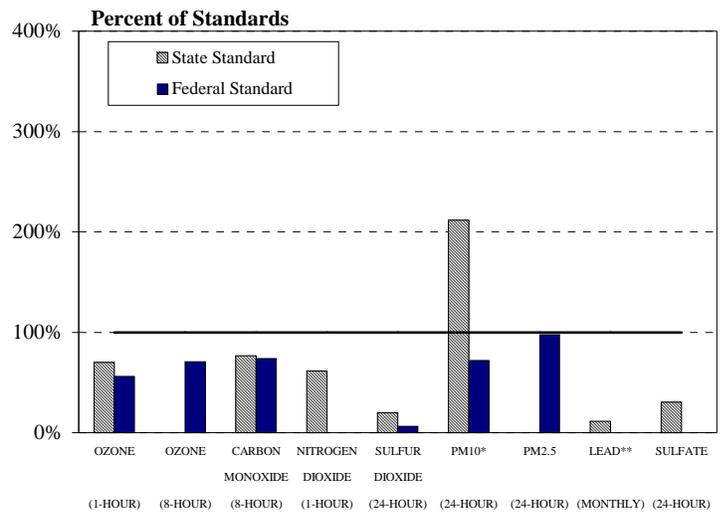
Pollutant Averaging Time	Criteria Pollutants' Air Quality Standards		Maximum Concentrations			
	State	Federal	ppm/ µg/m <sup>3</sup>	% State Standard	% Federal Standard	Location
<b>Ozone</b>						
1-Hour	> 0.09 ppm	> 0.12 ppm	0.07	70%	56%	Coachella Valley Banning Airport
8-Hour		> 0.08 ppm	0.060		71%	
<b>Carbon Monoxide</b>						
8-Hour	> 9.0 ppm	> 9 ppm	7.00	77%	74%	South Central Los Angeles County
<b>Nitrogen Dioxide</b>						
1-Hour	> 0.25 ppm		0.16	62%		Central Los Angeles East San Gabriel Valley
24-Hour			0.074			
<b>Sulfur Dioxide</b>						
1-Hour	> 0.25 ppm		0.02	8%		South Coastal Los Angeles County
24-Hour	> 0.04 ppm	> 0.14 ppm	0.009	22%	6%	North Coastal Los Angeles County
<b>Particulate (PM10)</b>						
24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	108	212%	72%	Metropolitan Riverside County
<b>Particulate (PM2.5)</b>						
24-Hour		> 65 µg/m <sup>3</sup>	64.1		98%	South Coastal Los Angeles County
<b>Sulfates</b>						
24-Hour	>= 25 µg/m <sup>3</sup>		7.6	30%		South Central Los Angeles County
<b>Lead*</b>						
30-Day	>= 1.5 µg/m <sup>3</sup>		0.17	11%		Southwest Coastal Los Angeles County
30-Day*			0.20	13%		Southeast Los Angeles County

\* Higher lead concentrations were recorded at special monitoring sites in the immediate vicinity of major lead sources.  
 N/A = No Applicable standard

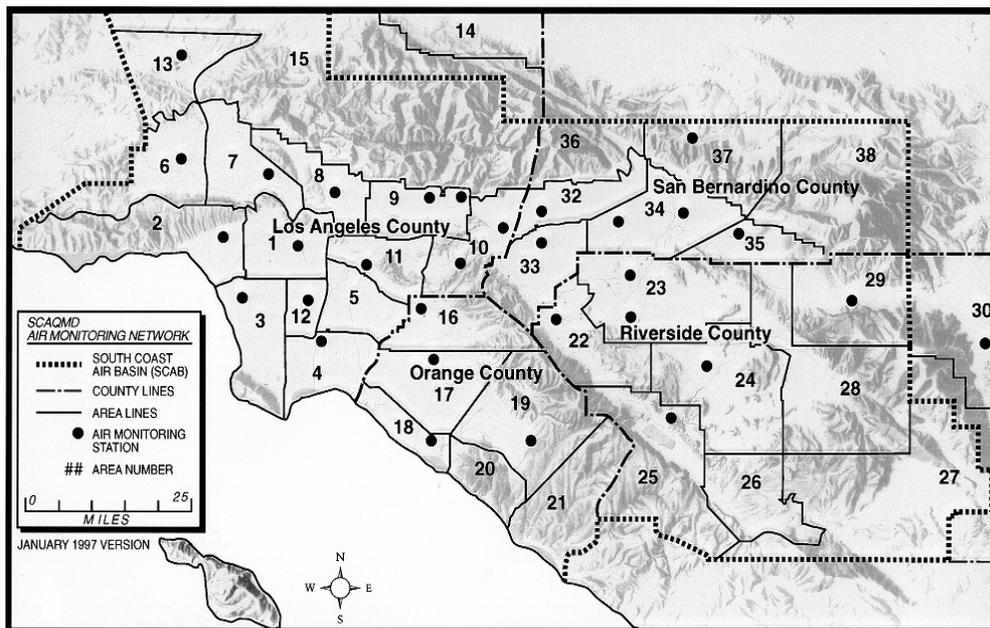
Figure 10 shows the maximum pollutant concentrations recorded during November - December 2003 as percentages of the state and federal ambient air quality standards.

During November and December, 2003, the concentrations of ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, sulfate and lead were within state and federal air quality standards at all locations monitored by the District. PM10 concentrations exceeded the state standard at some locations while meeting federal standard at all location. PM2.5 federal standard was exceeded at a few locations in November 2003.

Figure 11 shows the location of the District's air monitoring stations in each source/receptor area. The source/receptor area names and numbers, air monitoring station numbers, the number of days exceeding the state and federal standards and the maximum concentrations of the pollutants in each source/receptor area for the months of November and December 2003 are summarized in Tables 2 and 3, respectively.



**Figure 10**  
 Maximum Concentrations as Percent of State and Federal Standards for November and December 2003



**Figure 11**  
 South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert Air Basins and Monitoring Stations

Table 2  
November 2003  
Exceedances of Standards and Maximum Concentrations

Source/Receptor		Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide	
		Days Exceeding State Std	Days Exceeding Health Advisory	Days Exceeding Fed Std	1-hr	Max 8-hr	Max ppm	Days Exceeding State Std	Days Exceeding Fed Std	Max 8-hr ppm	Max 1-hr ppm	Days Exceeding State Std	Max 1-hr ppm	Max 24-hr ppm	Max 1-hr ppm
=====															
LOS ANGELES COUNTY															
1	Central LA	087	0	0	0	0.05	0.041	0/0	0/0	2.75	4	0	0.07	0.001	0.00
2	Northwest Coastal LA County	091	0	0	0	0.06	0.047	0/0	0/0	1.75	3	0	0.07		
3	Southwest Coastal LA County	094	0	0	0	0.05	0.045	0/0	0/0	4.14	5	0	0.08	0.004	0.01
4	South Coastal LA County	072	0	0	0	0.04	0.037	0/0	0/0	2.75	4	0	0.08	0.004	0.01
6	West San Fernando Valley	074	0	0	0	0.05	0.050	0/0	0/0	2.88	4	0	0.08		
7	East San Fernando Valley	069	0	0	0	0.05	0.041	0/0	0/0	3.29	4	0	0.08	0.001	0.00
-----															
8	West San Gabriel Valley	088	0	0	0	0.05	0.041	0/0	0/0	3.00	4	0	0.06		
9	East San Gabriel Valley 1	060	0	0	0	0.05	0.037	0/0	0/0	1.50	3	0	0.06		
9	East San Gabriel Valley 2	591	0	0	0	0.05	0.046	0/0	0/0	1.75	2	0	0.07		
10	Pomona/Walnut Valley	075	0	0	0	0.05	0.035	0/0	0/0	2.50	3	0	0.07		
11	South San Gabriel Valley	085	0	0	0	0.04	0.036	0/0	0/0	3.13	4	0	0.08		
12	South Central LA County 1	084	0	0	0	0.04	0.028	0/0	0/0	6.00	9	0	0.07		
13	Santa Clarita Valley 2	090	0	0	0	0.05	0.050	0/0	0/0	1.14	2	0	0.07		
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ORANGE COUNTY															
16	North Orange County	3177	0	0	0	0.04	0.038	0/0	0/0	2.88	5	0	0.07		
17	Central Orange County	3176	0	0	0	0.05	0.042	0/0	0/0	3.38	5	0	0.07		
18	North Coastal Orange County	3195	0	0	0	0.06	0.050	0/0	0/0	4.43	5	0	0.08	0.003	0.01
19	Saddleback Valley	3812	0	0	0	0.05	0.045	0/0	0/0	1.25	2				
-----															
RIVERSIDE COUNTY															
22	Norco/Corona	4155													
23	Metropolitan Riverside County 1	4144	0	0	0	0.05	0.046	0/0	0/0	2.57	3	0	0.07	0.002	0.01
23	Metropolitan Riverside County 2	4146						0/0	0/0	2.13	4				
24	Perris Valley	4149	0	0	0	0.05	0.040								
-----															
25	Lake Elsinore	4158	0	0	0	0.05	0.043	0/0	0/0	0.50	1	0	0.05		
29	Banning Airport	4164	0	0	0	0.06	0.060					0	0.07		
30	Coachella Valley 1**	4137	0	0	0	0.06	0.051	0/0	0/0	1.00	1	0	0.06		
30	Coachella Valley 2**	4157	0	0	0	0.07	0.051								
-----															
SAN BERNARDINO COUNTY															
32	Northwest San Bernardino Valley	5175	0	0	0	0.04	0.037	0/0	0/0	2.00	4	0	0.07		
33	Southwest San Bernardino Valley	5817													
34	Central San Bernardino Valley 1	5197	0	0	0	0.05	0.050					0	0.07	0.001	0.00
34	Central San Bernardino Valley 2	5203	0	0	0	0.05	0.047	0/0	0/0	2.57	3	0	0.07		
35	East San Bernardino Valley	5204	0	0	0	0.05	0.047								
37	Central San Bernardino Mountains	5181	0	0	0	0.05	0.050								
38	Big Bear Lake	5818													
-----															
	District maximum		0	0	0	0.07	0.060	0/0	0/0	6.00	9	0	0.08	0.004	0.01
=====															

\*\* Salton Sea air basin

Table 2 - continued  
November 2003  
Exceedances of Standards and Maximum Concentrations

Source/Receptor		PM10				Lead***		Sulfate		PM2.5			
		No.(%)Days Exceeding State Standard	NO.(%)Days Exceeding Federal Standard	Number Days Sampled	Max 24-hr Average	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Maximum 24-hr Average ug/m3	Number Days Sampled	Number days Exceeding Federal Standard	Maximum 24-hr Conc. ug/m3	
LOS ANGELES COUNTY													
1	Central LA	087	0(0%)	0(0%)	5	32	5	0.02	5	4.8	19	0	27.8
2	Northwest Coastal LA County	091							5	4.9			
3	Southwest Coastal LA County	094	0(0%)	0(0%)	5	45	5	0.17	5	6.1			
4	South Coastal LA County	072	0(0%)	0(0%)	5	50	5	0.01	5	6.0	29	0	33.7
6	West San Fernando Valley	074									10	0	28.1
7	East San Fernando Valley	069									1	0	15.1
8	West San Gabriel Valley	088							5	5.2	9	0	23.5
9	East San Gabriel Valley 1	060	0(0%)	0(0%)	5	50			5	3.9	20	0	28.8
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085							5	4.8	10	0	30.9
12	South Central LA County 1	084							5	5.1	10	0	34.3
13	Santa Clarita Valley 1	089											
13	Santa Clarita Valley 2	090	0(0%)	0(0%)	5	24							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	1(20%)	0(0%)	5	77					27	0	39.3
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	4	37					10	0	20.4
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	5	49							
23	Metropolitan Riverside County 1	4144	4(40%)	0(0%)	10	72	5	0.02	5	3.6	30	0	46.6
23	Metropolitan Riverside County 2	4146							5	2.6	10	0	36.7
24	Perris Valley	4149	0(0%)	0(0%)	5	49							
25	Lake Elsinore	4158											
29	Banning Airport	4164	1(20%)	0(0%)	5	52							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	26					10	0	20.0
30	Coachella Valley 2**	4157	1(10%)	0(0%)	10	53					8	0	24.9
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175											
33	Southwest San Bernardino Valley	5817	1(20%)	0(0%)	5	55	5	0.01	5	2.3	9	0	33.2
34	Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	69			4	3.5	7	0	28.3
34	Central San Bernardino Valley 2	5203	1(20%)	0(0%)	5	66	5	0.14	5	2.2	10	0	40.6
35	East San Bernardino Valley	5204	1(20%)	0(0%)	5	53							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	4	34							
38	Big Bear Lake	5818									5	0	28.8
District maximum			4	0		77		0.17		6.1		0	46.6

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in November 2003 and the maximum monthly average was 0.20 ug.

Table 3  
December 2003  
Exceedances of Standards and Maximum Concentrations

Source/Receptor	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide	
	Days Exceeding State Std	Days Exceeding Health Advisory	Days Exceeding Fed Std	1-hr	8-hr	Max ppm	Days Exceeding State Std	Days Exceeding Fed Std	Max 8-hr ppm	Max 1-hr ppm	Days Exceeding State Std	Max 1-hr ppm	Max 24-hr ppm	Max 1-hr ppm
=====														
LOS ANGELES COUNTY														
1 Central LA	087	0	0	0	0.04	0.031	0/0	0/0	4.57	6	0	0.16	0.002	0.01
2 Northwest Coastal LA County	091	0	0	0	0.05	0.038	0/0	0/0	2.43	3	0	0.08		
3 Southwest Coastal LA County	094	0	0	0	0.04	0.030	0/0	0/0	4.71	6	0	0.10	0.006	0.01
4 South Coastal LA County	072	0	0	0	0.04	0.027	0/0	0/0	3.71	5	0	0.09	0.005	0.02
6 West San Fernando Valley	074	0	0	0	0.05	0.040	0/0	0/0	3.63	5	0	0.08		
7 East San Fernando Valley	069	0	0	0	0.04	0.030	0/0	0/0	4.71	5	0	0.14	0.003	0.01
-----														
8 West San Gabriel Valley	088	0	0	0	0.04	0.033	0/0	0/0	3.63	5	0	0.13		
9 East San Gabriel Valley 1	060	0	0	0	0.04	0.037	0/0	0/0	2.57	5	0	0.10		
9 East San Gabriel Valley 2	591	0	0	0	0.05	0.037	0/0	0/0	2.00	2	0	0.12		
10 Pomona/Walnut Valley	075	0	0	0	0.04	0.025	0/0	0/0	3.25	5	0	0.10		
11 South San Gabriel Valley	085	0	0	0	0.04	0.025	0/0	0/0	3.71	5	0	0.10		
12 South Central LA County	084	0	0	0	0.03	0.023	0/0	0/0	7.00	10	0	0.09		
13 Santa Clarita Valley 2	090	0	0	0	0.05	0.045	0/0	0/0	1.63	2	0	0.06		
=====														
ORANGE COUNTY														
16 North Orange County	3177	0	0	0	0.03	0.026	0/0	0/0	3.29	7	0	0.08		
17 Central Orange County	3176	0	0	0	0.04	0.031	0/0	0/0	3.38	6	0	0.08		
18 North Coastal Orange County	3195	0	0	0	0.06	0.046	0/0	0/0	3.63	5	0	0.07	0.009	0.01
19 Saddleback Valley	3812	0	0	0	0.05	0.038	0/0	0/0	1.50	2				
-----														
RIVERSIDE COUNTY														
22 Norco/Corona	4155	0	0	0	0.01	0.010	0/0	0/0	1.00	1			0.005	0.01
23 Metropolitan Riverside County 1	4144	0	0	0	0.04	0.040	0/0	0/0	3.43	4	0	0.08		
23 Metropolitan Riverside County 2	4146	0	0	0	0.01	0.010	0/0	0/0	2.88	4				
24 Perris Valley	4149	0	0	0	0.04	0.037	0/0	0/0	1.00	1				
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25 Lake Elsinore	4158	0	0	0	0.04	0.038	0/0	0/0	1.13	4	0	0.08		
29 Banning Airport	4164	0	0	0	0.06	0.051	0/0	0/0	1.00	1	0	0.06		
30 Coachella Valley 1**	4137	0	0	0	0.05	0.041	0/0	0/0	0.88	2	0	0.05		
30 Coachella Valley 2**	4157	0	0	0	0.05	0.042	0/0	0/0	1.00	1				
=====														
SAN BERNARDINO COUNTY														
32 Northwest San Bernardino Valley	5175	0	0	0	0.04	0.028	0/0	0/0	2.50	3	0	0.10		
33 Southwest San Bernardino Valley	5817													
34 Central San Bernardino Valley 1	5197	0	0	0	0.04	0.040	0/0	0/0	1.00	1	0	0.11	0.001	0.00
34 Central San Bernardino Valley 2	5203	0	0	0	0.04	0.040	0/0	0/0	3.43	4	0	0.08		
35 East San Bernardino Valley	5204	0	0	0	0.05	0.041	0/0	0/0	1.00	1				
37 Central San Bernardino Mountains	5181	0	0	0	0.05	0.050	0/0	0/0	1.00	1				
38 Big Bear Lake	5818													
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District maximum		0	0	0	0.06	0.051	0/0	0/0	7.00	10	0	0.16	0.009	0.02
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\*\* Salton Sea air basin

Table 3 - continued  
 December 2003  
 Exceedances of Standards and Maximum Concentrations

Source/Receptor		PM10				Lead***		Sulfate		PM2.5			
		No.(%)Days Exceeding State Standard	NO.(%)Days Exceeding Federal Standard	Number Days Sampled	Max 24-hr Average	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Maximum 24-hr Average ug/m3	Number Days Sampled	Number days Exceeding Federal Standard	Maximum 24-hr Conc. ug/m3	
LOS ANGELES COUNTY													
1	Central LA	087	1(20%)	0(0%)	5	76	5	0.15	5	6.6	26	0	61.3
2	Northwest Coastal LA County	091							5	6.0			
3	Southwest Coastal LA County	094	0(0%)	0(0%)	5	37	5	0.02	5	6.8			
4	South Coastal LA County	072	1(25%)	0(0%)	4	53	5	0.10	5	4.1	29	0	46.8
6	West San Fernando Valley	074									8	0	35.9
7	East San Fernando Valley	069	1(50%)	0(0%)	2	51							
8	West San Gabriel Valley	088							5	5.1	6	0	27.0
9	East San Gabriel Valley 1	060	1(20%)	0(0%)	5	96			5	6.9	29	1	63.9
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					5	0.03	5	6.2	8	0	48.5
12	South Central LA County 1	084					5	0.03	5	7.6	9	0	52.4
13	Santa Clarita Valley 1	089											
13	Santa Clarita Valley 2	090	0(0%)	0(0%)	5	40							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	2(40%)	0(0%)	5	65					31	0	54.1
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	1(20%)	0(0%)	5	64					9	0	45.3
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(20%)	0(0%)	5	79							
23	Metropolitan Riverside County 1	4144	5(50%)	0(0%)	10	108	4	0.02	4	2.4	30	1	64.1
23	Metropolitan Riverside County 2	4146					5	0.01	5	3.1	10	0	46.4
24	Perris Valley	4149	1(20%)	0(0%)	5	76							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	5	22							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	4	18					10	0	10.0
30	Coachella Valley 2**	4157	2(20%)	0(0%)	10	53					9	0	14.8
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					4	0.08	4	3.2			
33	Southwest San Bernardino Valley	5817	3(50%)	0(0%)	6	104					10	1	64.1
34	Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	90			5	4.7	10	0	45.8
34	Central San Bernardino Valley 2	5203	1(20%)	0(0%)	5	74	5	0.07	5	2.1	10	0	35.3
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	39							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	5	32							
38	Big Bear Lake	5818									4	0	24.3
District maximum			5	0		108		0.15		7.6		1	64.1

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in December 2003 and the maximum monthly average was 0.15 ug/m3.