

# Air Quality Standards Compliance Report

Statistics for March/April 2004

Vol. 17, No. 2

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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.

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Based on the "Review of the California Ambient Air Quality Standards for Ozone," the staff of California Air Resources Board is considering revising the California Ozone Standard to establish a new 8-hour average standard of 0.070 ppm in order to adequately protect public health, including infant and children.

## March and April 2004 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 March and April are shown and summarized in the following figures and tables.

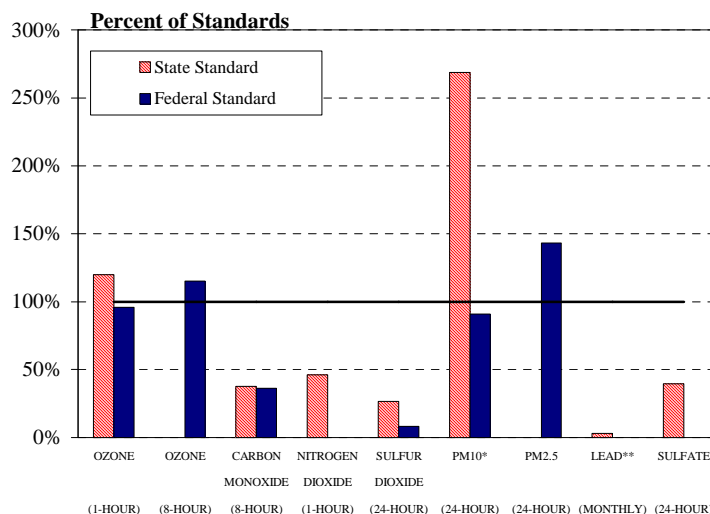
Figure 1 shows the maximum pollutant concentrations recorded during March - April 2004 as percentages of the state and federal ambient air quality standards.

Table 1 (on page 2) shows the state and federal ambient air quality standards for criteria pollutants, the maximum concentrations recorded during March/April 2004 and the location where the maximum concentration was recorded.

During March and April, 2004, the concentrations of carbon monoxide, nitrogen dioxide, sulfur dioxide, sulfate, and lead were within state and federal air quality standards at all locations monitored by the District. Ozone concentrations

exceeded the state 1-hour and federal 8-hour standards at some locations. PM10 concentrations met the federal standard at all locations monitored in the District, while exceeding the state standard at some locations. PM2.5 concentrations exceeded the federal standard at some locations in the eastern portion of the District in March, while meeting the standard at all locations monitored in April.

Figure 2 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 March and April 2004 are summarized in Tables 2 and 3, respectively.



\*\* higher lead concentrations were recorded at special monitoring sites in the vicinity of major lead sources.

**Figure 1**  
Maximum Concentrations as Percent of State and Federal Standards for March and April 2004

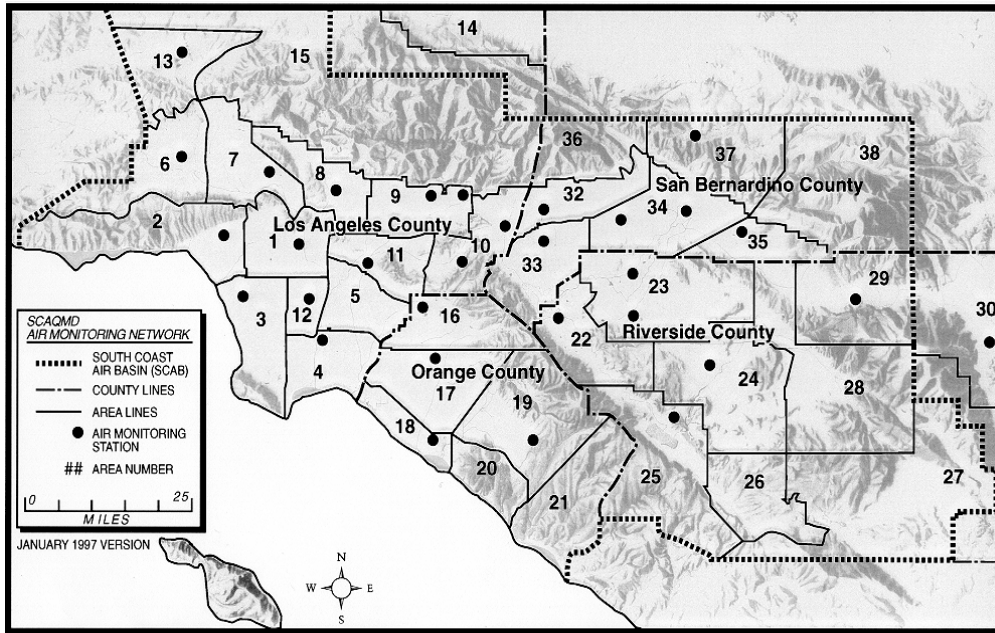


South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

**Table 1. Maximum Concentrations Reported in March/April 2004 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	0.12	120%	96%	East San Bernardino Valley
8-Hour		> 0.08 ppm	0.098		115%	East San Bernardino Valley
<b>Carbon Monoxide</b> 8-Hour	> 9.0 ppm	> 9 ppm	3.43	38%	36%	South Central LA County
<b>Nitrogen Dioxide</b> 1-Hour	> 0.25 ppm		0.12	46%		South Coastal LA County
24-Hour			0.072			East San Fernando Valley
<b>Sulfur Dioxide</b> 1-Hour	> 0.25 ppm		0.06	23%		Central Los Angeles
24-Hour	> 0.04 ppm	> 0.14 ppm	0.012	29%	9%	South Coastal LA County
<b>Particulate (PM10)</b> 24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	137	269%	91%	Metropolitan Riverside County
<b>Particulate (PM2.5)</b> 24-Hour		> 65 µg/m <sup>3</sup>	93.8		143%	Metropolitan Riverside County
<b>Sulfates</b> 24-Hour	>= 25 µg/m <sup>3</sup>		9.9	40%		Central Los Angeles
<b>Lead*</b> 30-Day	>= 1.5 µg/m <sup>3</sup>		0.03	2%		Central Los Angeles, South San Gabriel Valley
30-Day*			0.28	19%		Southeast Los Angeles County

\*Higher lead concentrations were recorded at special monitoring sites in the immediate vicinity of major lead sources.



**Figure 3**  
 South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert  
 Air Basins and Monitoring Stations

**Table 2**  
**March 2004**  
**Exceedances of Standards and Maximum Concentrations**

No.	Location	Stn. No.	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
			No. Days Exceeding						Days Exceeding				Days Exceeding State Std	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
			State Std* 1-hour	8-hour	Health Advisory	Federal Standard 1-hour	8-hour	Max 1-hour ppm	Max 8-hour ppm	State Std 8-hr/1-hr	Federal Std 8hr/1-hr	Max 8-hour ppm					Max 1-hour ppm
<b>LOS ANGELES COUNTY</b>																	
1	Central LA	87	0	0	0	0	0	0.07	0.062	0/0	0/0	2.63	3	0	0.11	0.003	0.04
2	Northwest Coastal LA County	91	0	0	0	0	0	0.08	0.067	0/0	0/0	1.63	2	0	0.06		
3	Southwest Coastal LA County	94	0	0	0	0	0	0.07	0.060	0/0	0/0	3.14	4	0	0.08	0.004	0.02
4	South Coastal LA County	72	0	0	0	0	0	0.08	0.065	0/0	0/0	2.29	3	0	0.12	0.012	0.02
6	West San Fernando Valley	74	1	1	0	0	0	0.10	0.081	0/0	0/0	2.14	3	0	0.08		
7	East San Fernando Valley	69	0	0	0	0	0	0.09	0.068	0/0	0/0	2.29	3	0	0.10	0.001	0.01
8	West San Gabriel Valley	88	0	0	0	0	0	0.09	0.070	0/0	0/0	2.25	6	0	0.08		
9	East San Gabriel Valley 1	60	1	1	0	0	0	0.10	0.075	0/0	0/0	1.86	3	0	0.08		
9	East San Gabriel Valley 2	591	2	0	0	0	0	0.10	0.073	0/0	0/0	2.00	2	0	0.08		
10	Pomona/Walnut Valley	75	2	0	0	0	0	0.11	0.073	0/0	0/0	2.00	3	0	0.08		
11	South San Gabriel Valley	85	0	0	0	0	0	0.08	0.066	0/0	0/0	2.00	3	0	0.09		
12	South Central LA County	84	0	0	0	0	0	0.06	0.054	0/0	0/0	3.43	6	0	0.08		
13	Santa Clarita Valley	90	1	1	0	0	0	0.11	0.075	0/0	0/0	1.14	2	0	0.08		
<b>ORANGE COUNTY</b>																	
16	North Orange County	3177	0	0	0	0	0	0.08	0.062	0/0	0/0	2.14	4	0	0.09		
17	Central Orange County	3176	0	0	0	0	0	0.08	0.065	0/0	0/0	2.14	4	0	0.08		
18	North Coastal Orange County	3195	0	0	0	0	0	0.08	0.073	0/0	0/0	2.00	3	0	0.06	0.003	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.09	0.072	0/0	0/0	1.00	1				
<b>RIVERSIDE COUNTY</b>																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	2	2	0	0	0	0.10	0.081	0/0	0/0	1.88	2	0	0.07	0.01	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	1.75	2				
24	Perris Valley	4149	0	1	0	0	0	0.09	0.083								
25	Lake Elsinore	4158	1	1	0	0	1	0.10	0.088	0/0	0/0	1.00	1	0	0.06		
29	Banning/San Gorgonio Pass	4164	0	1	0	0	0	0.09	0.077					0	0.07		
30	Coachella Valley 1**	4137	0	0	0	0	0	0.08	0.068	0/0	0/0	0.43	1	0	0.05		
30	Coachella Valley 2**	4157	0	1	0	0	0	0.09	0.076								
<b>SANBERNARDINO COUNTY</b>																	
32	Northwest San Bernardino Valley	5175	1	1	0	0	0	0.10	0.077	0/0	0/0	1.86	2	0	0.08		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	2	2	0	0	1	0.11	0.085	0/0	0/0	1.71	2	0	0.08	0.001	0
34	Central San Bernardino Valley 2	5203	1	1	0	0	0	0.10	0.075	0/0	0/0	1.86	2	0	0.08		
35	East San Bernardino Valley	5204	1	1	0	0	1	0.12	0.098								
37	Central San Bernardino Mountain	5181	1	0	0	0	0	0.10	0.073								
38	Big Bear Lake	5818															
<b>District maximum</b>			2	2	0	0	1	0.12	0.098	0/0	0/0	3.43	6	0	0.12	0.012	0.04

\* Air Resources Board has proposed revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm.

\*\* Salton Sea air basin at this time.

**Table 2 (continued)**  
**March 2004**  
**Exceedances of Standards and Maximum Concentrations**

No.	Location	Stn. No.	PM10			Lead***		Sulfate		PM2.5			
			No. (%) Days Exceeding State Std	Federal Std	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Sampled	Number Days Exceeding Federal Standard	Max 24-hour Average ug/m3
<b>LOS ANGELES COUNTY</b>													
1	Central LA	87	3(60%)	0(0%)	5	64	5	0.03	5	9.4	8	0	21.6
2	Northwest Coastal LA County	91							5	6.6			
3	Southwest Coastal LA County	94	2(40%)	0(0%)	5	52	5	0.01	5	5.7			
4	South Coastal LA County	72	2(40%)	0(0%)	5	72	6	0.01	6	9.8	30	0	51.2
6	West San Fernando Valley	74									10	0	55.6
7	East San Fernando Valley	69	2(40%)	0(0%)	5	65					11	0	37.8
8	West San Gabriel Valley	88							5	8.6	10	0	59.4
9	East San Gabriel Valley 1	60	2(40%)	0(0%)	5	78			4	9.4	20	0	53.8
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					4	0.03	4	7.8	11	0	60.7
12	South Central LA County	84					5	0.02	5	8.6	11	0	55.8
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	36							
<b>ORANGE COUNTY</b>													
16	North Orange County	3177											
17	Central Orange County	3176	2(40%)	0(0%)	5	62					30	0	52.9
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	46					11	0	49.4
<b>RIVERSIDE COUNTY</b>													
22	Norco/Corona	4155	1(20%)	0(0%)	5	72							
23	Metropolitan Riverside County 1	4144	8(73%)	0(0%)	11	137	5	0.02	5	9.8	29	4	91.7
23	Metropolitan Riverside County 2	4146					3	0.01	5	9.1	10	2	93.8
24	Perris Valley	4149	3(60%)	0(0%)	5	69							
25	Lake Elsinore	4158											
29	Banning/San Gorgonio Pass	4164	0(0%)	0(0%)	5	43							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	50					10	0	19.0
30	Coachella Valley 2**	4157	2(18%)	0(0%)	11	62					6	0	20.2
<b>SAN BERNARDINO COUNTY</b>													
32	Northwest San Bernardino Valley	5175							5	8.3			
33	Southwest San Bernardino Valley	5817	3(60%)	0(0%)	5	93					11	1	86.1
34	Central San Bernardino Valley 1	5197	1(20%)	0(0%)	5	62			5	8.0	9	1	71.4
34	Central San Bernardino Valley 2	5203	2(40%)	0(0%)	5	118			5	9.0	11	2	81.9
35	East San Bernardino Valley	5204	1(20%)	0(0%)	5	76							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	34							
38	Big Bear Lake	5818									5	0	11.4
<b>District maximum</b>			8	0		137		0.03		9.8		4	93.8

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in March 2004 and the maximum monthly average was 0.21 µg/m<sup>3</sup>.

**Table 3**  
**April 2004**  
**Exceedances of Standards and Maximum Concentrations**

No.	Location	Stn. No.	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
			No. Days Exceeding						Days Exceeding				Days Exceeding State Std	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
			State Std* 1-hour	8-hour*	Health Advisory	Federal Standard 1-hour	8-hour	Max 1-hour ppm	Max 8-hour ppm	State Std 8-hr/1-hr	Federal Std 8hr/1-hr	Max 8-hour ppm					Max 1-hour ppm
<b>LOS ANGELES COUNTY</b>																	
1	Central LA	87	0	0	0	0	0	0.09	0.075	0/0	0/0	1.50	2	0	0.08	0.003	0.06
2	Northwest Coastal LA County	91	0	0	0	0	0	0.09	0.072	0/0	0/0	1.43	2	0	0.08		
3	Southwest Coastal LA County	94															
4	South Coastal LA County	72	0	0	0	0	0	0.08	0.067	0/0	0/0	2.43	3	0	0.11	0.011	0.03
6	West San Fernando Valley	74	0	2	0	0	0	0.09	0.080	0/0	0/0	1.43	3	0	0.06		
7	East San Fernando Valley	69	0	1	0	0	0	0.09	0.077	0/0	0/0	1.43	2	0	0.08	0.002	0.02
8	West San Gabriel Valley	88	0	2	0	0	1	0.09	0.085	0/0	0/0	1.00	2	0	0.06		
9	East San Gabriel Valley 1	60	0	2	0	0	0	0.09	0.076	0/0	0/0	1.00	2	0	0.05		
9	East San Gabriel Valley 2	591	2	2	0	0	0	0.10	0.083	0/0	0/0	1.00	1	0	0.06		
10	Pomona/Walnut Valley	75	1	1	0	0	0	0.10	0.076	0/0	0/0	1.57	3	0	0.07		
11	South San Gabriel Valley	85	0	0	0	0	0	0.08	0.068	0/0	0/0	1.86	2	0	0.07		
12	South Central LA County	84	0	0	0	0	0	0.07	0.062	0/0	0/0	2.88	5	0	0.09		
13	Santa Clarita Valley	90	0	3	0	0	0	0.09	0.081	0/0	0/0	1.14	2	0	0.07		
<b>ORANGE COUNTY</b>																	
16	North Orange County	3177	0	0	0	0	0	0.09	0.073	0/0	0/0	1.86	4	0	0.07		
17	Central Orange County	3176	0	1	0	0	0	0.09	0.077	0/0	0/0	1.86	3	0	0.09		
18	North Coastal Orange County	3195	0	0	0	0	0	0.08	0.073	0/0	0/0	1.14	2	0	0.07	0.002	0.01
19	Saddleback Valley	3812	3	3	0	0	1	0.11	0.088	0/0	0/0	0.86	1				
<b>RIVERSIDE COUNTY</b>																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	1	0	0	0	0	0.10	0.076	0/0	0/0	1.67	3	0	0.06	0.01	0.01
23	Metropolitan Riverside County 2	4146															
24	Perris Valley	4149	0	0	0	0	0	0.08	0.070								
25	Lake Elsinore	4158	0	0	0	0	0	0.08	0.075	0/0	0/0	0.43	1	0	0.05		
29	Banning/San Gorgonio Pass	4164	1	5	0	0	1	0.10	0.088					0	0.07		
30	Coachella Valley 1**	4137	1	2	0	0	0	0.10	0.083	0/0	0/0	0.50	1	0	0.04		
30	Coachella Valley 2**	4157	0	3	0	0	0	0.09	0.077								
<b>SANBERNARDINO COUNTY</b>																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.09	0.072	0/0	0/0	1.17	2	0	0.07		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	1	1	0	0	0	0.10	0.078	0/0	0/0	1.29	2	0	0.07	0.001	0
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.08	0.070	0/0	0/0	1.13	2	0	0.06		
35	East San Bernardino Valley	5204	0	3	0	0	0	0.09	0.083								
37	Central San Bernardino Mountain	5181	1	4	0	0	1	0.11	0.086								
38	Big Bear Lake	5818															
<b>District maximum</b>			3	5	0	0	1	0.11	0.088	0/0	0/0	2.88	5	0	0.11	0.011	0.06

\* Air Resources Board has proposed revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm.

\*\* Salton Sea air basin

**Table 3 (continued)**  
**April 2004**  
**Exceedances of Standards and Maximum Concentrations**

No.	Location	Stn. No.	PM10			Lead***		Sulfate		PM2.5			
			No. (%) Days Exceeding State Std	Federal Std	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Sampled	Number Days Exceeding Federal Standard	Max 24-hour Average ug/m3
<b>LOS ANGELES COUNTY</b>													
1	Central LA	87	1(20%)	0(0%)	5	53	5	0.02	5	9.9	16	0	38.2
2	Northwest Coastal LA County	91							5	8.2			
3	Southwest Coastal LA County	94											
4	South Coastal LA County	72	0(0%)	0(0%)	5	45	1*	0.02*	5	9.1	30	0	27.1
6	West San Fernando Valley	74									10	0	26.4
7	East San Fernando Valley	69	1(20%)	0(0%)	5	67					10	0	34.0
8	West San Gabriel Valley	88							4	8.7	10	0	30.5
9	East San Gabriel Valley 1	60	1(20%)	0(0%)	5	55			5	7.8	7	0	17.2
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					5	0.02	5	8.9	10	0	30.5
12	South Central LA County	84					5	0.02	5	6.1	7	0	31.3
13	Santa Clarita Valley	90	1(20%)	0(0%)	5	54							
<b>ORANGE COUNTY</b>													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	5	50					22	0	27.6
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	37					10	0	19.9
<b>RIVERSIDE COUNTY</b>													
22	Norco/Corona	4155	2(40%)	0(0%)	5	60							
23	Metropolitan Riverside County 1	4144	5(50%)	0(0%)	10	88	5	0.02	5	7.5	30	0	55.8
23	Metropolitan Riverside County 2	4146					5	0.01	5	7.3	10	0	53.7
24	Perris Valley	4149	2(40%)	0(0%)	5	61							
25	Lake Elsinore	4158											
29	Banning/San Gorgonio Pass	4164	1(20%)	0(0%)	5	66							
30	Coachella Valley 1**	4137	1(20%)	0(0%)	5	55					10	0	13.2
30	Coachella Valley 2**	4157	2(20%)	0(0%)	10	82					9	0	12.8
<b>SANBERNARDINO COUNTY</b>													
32	Northwest San Bernardino Valley	5175					5	0.01	5	7.6			
33	Southwest San Bernardino Valley	5817	3(60%)	0(0%)	5	66					10	0	40.8
34	Central San Bernardino Valley 1	5197	3(60%)	0(0%)	5	70			5	8.4	9	0	43.7
34	Central San Bernardino Valley 2	5203	4(80%)	0(0%)	5	95	2*	0.01*	5	8.3	10	0	55.8
35	East San Bernardino Valley	5204	2(40%)	0(0%)	5	88							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	34							
38	Big Bear Lake	5818									5	0	11.1
<b>District maximum</b>			5	0		95		0.02		9.9		0	55.8

\* Incomplete data

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in April 2004 and the maximum monthly average was 0.28 µg/m<sup>3</sup>.

