

# Air Quality Standards Compliance Report

Statistics for January/February 2003

Vol. 16, No.1

Published December, 2003

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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## January and February 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 January and February 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 January/February 2003 and the location where the maximum concentration was recorded.

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.

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

Pollutant Averaging Time	Criteria Pollutants'		Maximum Concentrations			
	Air Quality Standards		ppm/ µg/m <sup>3</sup>	% State Standard	% Federal Standard	Location
	State	Federal				
<b>Ozone</b> 1-Hour 8-Hour	> 0.09 ppm	> 0.12 ppm > 0.08 ppm	0.06 0.060	60%	48% 71%	Several Locations Coachella Valley
<b>Carbon Monoxide</b> 8-Hour	> 9.0 ppm	> 9 ppm	7.14	78%	75%	South Central L.A. County
<b>Nitrogen Dioxide</b> 1-Hour 24-Hour	> 0.25 ppm		0.13 0.077	50%		East San Fernando Valley East San Fernando Valley
<b>Sulfur Dioxide</b> 1-Hour 24-Hour	> 0.25 ppm > 0.04 ppm	> 0.14 ppm	0.04 0.016	15% 39%	11%	North Coastal Orange County North Coastal Orange County
<b>Particulate (PM10)</b> 24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	178.0	349%	118%	Coachella Valley
<b>Particulate (PM2.5)</b> 24-Hour		> 65 µg/m <sup>3</sup>	72.9		111%	Metropolitan Riverside County
<b>Sulfates</b> 24-Hour	>= 25 µg/m <sup>3</sup>		9.3	37%		Southwest Coastal L.A. County
<b>Lead*</b> 30-Day 30-Day*	>= 1.5 µg/m <sup>3</sup>		0.05 0.26	3% 17%		Central San Bernardino Valley Southeast Los Angeles County

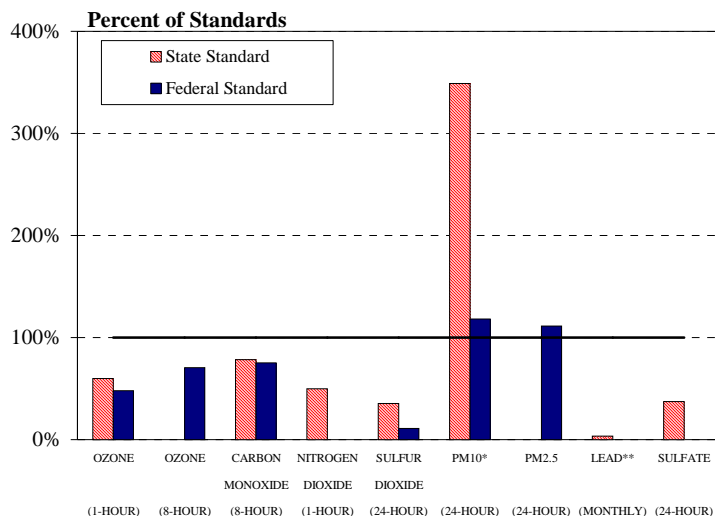
\* Higher lead concentrations were recorded at special monitoring sites in the immediate vicinity of major lead sources.



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

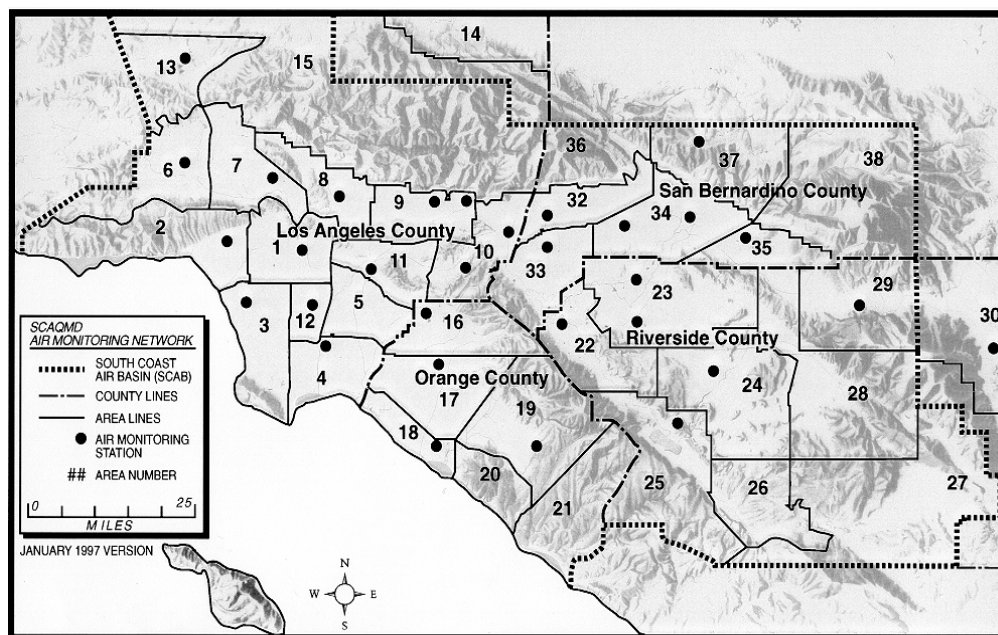
Figure 1 shows the maximum pollutant concentrations recorded during January - February 2003 as percentages of the state and federal ambient air quality standards.

During January and February, 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 were within the federal standard at all locations in the South Coast Air Basin, while exceeding on one day at Coachella Valley in the Salton Sea Air Basin. PM10 state standard was exceeded at most locations monitored in the District. PM2.5 concentrations exceeded the federal standard on one day at two locations in January, while meeting the standard at all locations monitored in February.



**Figure 1**  
 Maximum Concentrations as Percent of State and Federal Standards for January and February 2003

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 January and February 2003 are summarized in Tables 2 and 3, respectively.



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

Table 2  
January 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	Max 1-hr ppm	Max 8-hr 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	0.033	0/0	0/0	3.75	5	0	0.12	0.006	0.01
2	Northwest Coastal LA County	091	0	0	0	0.05	0.046	0/0	0/0	2.63	4	0	0.08		
3	Southwest Coastal LA County	094	0	0	0	0.05	0.041	0/0	0/0	5.00	7	0	0.12	0.001	0.01
4	South Coastal LA County	072	0	0	0	0.04	0.036	0/0	0/0	4.71	5	0	0.12	0.005	0.03
6	West San Fernando Valley	074	0	0	0	0.05	0.042	0/0	0/0	4.00	6	0	0.08		
7	East San Fernando Valley	069	0	0	0	0.05	0.048	0/0	0/0	3.75	5	0	0.13	0.002	0.01
8	West San Gabriel Valley	088	0	0	0	0.05	0.050	0/0	0/0	3.75	5	0	0.10		
9	East San Gabriel Valley 1	060	0	0	0	0.05	0.050	0/0	0/0	2.00	3	0	0.12		
9	East San Gabriel Valley 2	591	0	0	0	0.05	0.045	0/0	0/0	1.63	2	0	0.12		
10	Pomona/Walnut Valley	075	0	0	0	0.04	0.040	0/0	0/0	3.29	5	0	0.11		
11	South San Gabriel Valley	085	0	0	0	0.05	0.030	0/0	0/0	4.00	5	0	0.11		
12	South Central LA County 1	084	0	0	0	0.04	0.030	0/0	0/0	7.14	9	0	0.12		
13	Santa Clarita Valley	090	0	0	0	0.05	0.046	0/0	0/0	1.30	3	0	0.07		
ORANGE COUNTY															
16	North Orange County	3177	0	0	0	0.04	0.038	0/0	0/0	4.14	8	0	0.10		
17	Central Orange County	3176	0	0	0	0.04	0.030	0/0	0/0	3.88	5	0	0.12		
18	North Coastal Orange County	3195	0	0	0	0.06	0.047	0/0	0/0	5.75	7	0	0.11	0.016	0.04
19	Saddleback Valley	3812	0	0	0	0.05	0.042	0/0	0/0	1.63	2				
RIVERSIDE COUNTY															
22	Norco/Corona	4155													
23	Metropolitan Riverside County 1	4144	0	0	0	0.04	0.040	0/0	0/0	2.88	4	0	0.07	0.003	0.02
23	Metropolitan Riverside County 2	4146						0/0	0/0	2.88	5				
24	Perris Valley	4149	0	0	0	0.05	0.045								
25	Lake Elsinore	4158	0	0	0	0.05	0.043	0/0	0/0	1.29	2	0	0.07		
29	Banning Airport	4164	0	0	0	0.06	0.053					0	0.05		
30	Coachella Valley 1**	4137	0	0	0	0.06	0.046	0/0	0/0	0.75	2	0	0.05		
30	Coachella Valley 2**	4157	0	0	0	0.06	0.043								
SAN BERNARDINO COUNTY															
32	Northwest San Bernardino Valley	5175	0	0	0	0.04	0.040	0/0	0/0	1.63	3	0	0.11		
33	Southwest San Bernardino Valley	5817													
34	Central San Bernardino Valley 1	5197	0	0	0	0.05	0.043					0	0.09	0.002	0.01
34	Central San Bernardino Valley 2	5203	0	0	0	0.04	0.040	0/0	0/0	2.71	4	0	0.08		
35	East San Bernardino Valley	5204	0	0	0	0.05	0.045								
37	Central San Bernardino Mountains	5181	0	0	0	0.05	0.047								
District maximum			0	0	0	0.06	0.053	0/0	0/0	7.14	9	0	0.13	0.016	0.04

\*\* Salton Sea Air Basin

Table 2 - continued  
 January 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	44	5	0.02	5	6.9	29	0	54.1
2	Northwest Coastal LA County	091							5	5.2			
3	Southwest Coastal LA County	094	0(0%)	0(0%)	5	46	5	0.02	5	9.3			
4	South Coastal LA County	072	1(20%)	0(0%)	5	57	7	0.03	7	8.8	27	0	44.3
6	West San Fernando Valley	074									9	0	32.0
7	East San Fernando Valley	069	0(0%)	0(0%)	5	46					10	0	37.8
8	West San Gabriel Valley	088							5	5.6	9	0	36.2
9	East San Gabriel Valley 1	060	1(25%)	0(0%)	4	54			5	5.3	31	0	55.5
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					5	0.03	5	8.3	9	0	44.9
12	South Central LA County 1	084					5	0.04	5	7.4	9	0	40.7
13	Santa Clarita Valley	090	0(0%)	(0%)	5	35							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	5	50					21	1	69.5
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	43					10	0	37.6
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	5	47							
23	Metropolitan Riverside County 1	4144	9(90%)	0(0%)	10	83	5	0.01	5	6.2	26	1	72.9
23	Metropolitan Riverside County 2	4146					5	0.02	5	5.8	9	0	50.8
24	Perris Valley	4149	3(60%)	0(0%)	5	67							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	5	33							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	17					9	0	12.1
30	Coachella Valley 2**	4157	3(33%)	1(11%)	9	178					10	0	26.8
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.01	5	5.6			
33	Southwest San Bernardino Valley	5817	1(20%)	0(0%)	5	71					10	0	51.1
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	2	47			5	6.9	9	0	40.6
34	Central San Bernardino Valley 2	5203	1(20%)	0(0%)	5	60	5	0.05	5	5.6	9	0	41.5
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	50							
37	Central San Bernardino Mountains	5181											
District maximum			9	1		178		0.05		9.3		1	72.9

\*\* Salton Sea Air Basin

\*\*\*Special monitoring of lead near stationary sources was carried out in January 2003 and the maximum monthly average was 0.14 ug/m3.

Table 3  
February 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	Max 1-hr	Max 8-hr	Days Exceeding State Std	Days Exceeding Fed Std	Max 8-hr	Max 1-hr	Days Exceeding State Std	Max 1-hr	Max 24-hr	Max 1-hr	
			1-hr 8-hr	ppm	ppm	8-hr/1-hr	8-hr/1-hr	ppm	ppm	Std	ppm	ppm	ppm	
=====														
LOS ANGELES COUNTY														
1 Central LA	087	0	0	0	0.05	0.040	0/0	0/0	2.14	4	0	0.06	0.003	0.01
2 Northwest Coastal LA County	091	0	0	0	0.05	0.047	0/0	0/0	1.88	3	0	0.07		
3 Southwest Coastal LA County	094	0	0	0	0.05	0.043	0/0	0/0	3.71	5	0	0.08	0.001	0.01
4 South Coastal LA County	072	0	0	0	0.04	0.040	0/0	0/0	2.86	4	0	0.07	0.005	0.01
6 West San Fernando Valley	074	0	0	0	0.05	0.043	0/0	0/0	2.57	5	0	0.07		
-----														
7 East San Fernando Valley	069	0	0	0	0.05	0.045	0/0	0/0	3.14	4	0	0.07	0.001	0.01
8 West San Gabriel Valley	088	0	0	0	0.05	0.043	0/0	0/0	2.75	4	0	0.06		
9 East San Gabriel Valley 1	060	0	0	0	0.05	0.046	0/0	0/0	1.14	2	0	0.06		
9 East San Gabriel Valley 2	591	0	0	0	0.06	0.048	0/0	0/0	4.63	9	0	0.06		
10 Pomona/Walnut Valley	075	0	0	0	0.05	0.042	0/0	0/0	2.29	4	0	0.07		
11 South San Gabriel Valley	085	0	0	0	0.05	0.040	0/0	0/0	2.57	3	0	0.08		
12 South Central LA County 1	084	0	0	0	0.04	0.038	0/0	0/0	5.71	7	0	0.07		
13 Santa Clarita Valley	090	0	0	0	0.05	0.048	0/0	0/0	1.20	2	0	0.05		
=====														
ORANGE COUNTY														
16 North Orange County	3177	0	0	0	0.05	0.038	0/0	0/0	2.86	7	0	0.07		
17 Central Orange County	3176	0	0	0	0.05	0.040	0/0	0/0	1.86	3	0	0.06		
18 North Coastal Orange County	3195	0	0	0	0.06	0.050	0/0	0/0	2.71	4	0	0.06	0.004	0.01
19 Saddleback Valley	3812	0	0	0	0.06	0.048	0/0	0/0	0.88	2				
=====														
RIVERSIDE COUNTY														
22 Norco/Corona	4155													
23 Metropolitan Riverside County 1	4144	0	0	0	0.05	0.047	0/0	0/0	2.29	3	0	0.05	0.001	0.02
23 Metropolitan Riverside County 2	4146						0/0	0/0	2.00	4				
24 Perris Valley	4149	0	0	0	0.06	0.046								
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25 Lake Elsinore	4158	0	0	0	0.06	0.055	0/0	0/0	1.14	2	0	0.04		
29 Banning Airport	4164	0	0	0	0.06	0.057					0	0.05		
30 Coachella Valley 1**	4137	0	0	0	0.06	0.060	0/0	0/0	0.43	1	0	0.04		
30 Coachella Valley 2**	4157	0	0	0	0.06	0.055								
=====														
SAN BERNARDINO COUNTY														
32 Northwest San Bernardino Valley	5175	0	0	0	0.05	0.041	0/0	0/0	1.00	3	0	0.07		
33 Southwest San Bernardino Valley	5817													
34 Central San Bernardino Valley 1	5197	0	0	0	0.05	0.045					0	0.06	0.002	0.01
34 Central San Bernardino Valley 2	5203	0	0	0	0.05	0.040	0/0	0/0	2.17	3	0	0.06		
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								
=====														
District maximum		0	0	0	0.06	0.060	0/0	0/0	5.71	9	0	0.08	0.005	0.02
=====														

\*\* Salton Sea Air Basin

Table 3 - continued  
February 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	38	4	0.02	5	4.4	23	0	22.7
2	Northwest Coastal LA County	091							5	6.3			
3	Southwest Coastal LA County	094	1(20%)	0(0%)	5	57	5	0.02	5	8.2			
4	South Coastal LA County	072	1(20%)	0(0%)	5	56	5	0.01	5	9.1	26	0	22.7
6	West San Fernando Valley	074									9	0	24.0
7	East San Fernando Valley	069	0(0%)	0(0%)	5	45					9	0	24.0
8	West San Gabriel Valley	088							5	2.6	9	0	20.8
9	East San Gabriel Valley 1	060	0(0%)	0(0%)	5	25			5	3.4	26	0	21.7
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					5	0.01	5	3.8	9	0	22.7
12	South Central LA County 1	084					3	0.02	3	6.7	9	0	22.6
13	Santa Clarita Valley	090	1(20%)	0(0%)	5	72							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	1(20%)	0(0%)	5	51					27	0	20.8
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	38					9	0	12.0
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	4	50							
23	Metropolitan Riverside County 1	4144	2(25%)	0(0%)	8	84	5	0.01	5	4.6	28	0	39.3
23	Metropolitan Riverside County 2	4146					5	0.01	5	5.0	9	0	30.1
24	Perris Valley	4149	1(20%)	0(0%)	5	142							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	5	33							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	34					9	0	14.7
30	Coachella Valley 2**	4157	1(13%)	0(0%)	8	132					9	0	25.8
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.01	5	2.9			
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	5	33					9	0	30.7
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	3	20			5	3.7	9	0	31.1
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	39	4	0.01	4	3.5	9	0	36.5
35	East San Bernardino Valley	5204	0(0%)	0(0%)	4	36							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	3	47							
District maximum			2	0		142		0.02		9.1		0	39.3

\*\* Salton Sea Air Basin

\*\*\*Special monitoring of lead near stationary sources was carried out in February 2003 and the maximum monthly average was 0.26 ug/m3.