

# Air Quality Standards Compliance Report

Statistics for May/June 2003

Vol. 16, No.3

Published April, 2004

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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## May and June 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 May and June 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 May/June 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 May/June 2003 Compared to the Ambient Air Quality Standards**

Pollutant Averaging Time	Criteria Pollutant 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	0.17	170%	136%	North Orange County
8-Hour		> 0.08 ppm	0.145	N/A	171%	Central San Bernardino Mountains
<b>Carbon Monoxide</b>						
8-Hour	> 9.0 ppm	> 9 ppm	2.00	22%	21%	Central Los Angeles, South Central Los Angeles County
<b>Nitrogen Dioxide</b>						
1-Hour	> 0.25 ppm		0.14	54%	N/A	Central Los Angeles
24-Hour			0.076	N/A	N/A	East San Fernando Valley
<b>Sulfur Dioxide</b>						
1-Hour	> 0.25 ppm		0.05	19%	N/A	Central Los Angeles
24-Hour	> 0.04 ppm	> 0.14 ppm	0.008	20%	6%	Metropolitan Riverside County
<b>Particulate (PM10)</b>						
24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	309	606%	205%	Coachella Valley
<b>Particulate (PM2.5)</b>						
24-Hour		> 65 µg/m <sup>3</sup>	60.5	N/A	92%	Metropolitan Riverside County
<b>Sulfates</b>						
24-Hour	>= 25 µg/m <sup>3</sup>		9.7	39%	N/A	South Central Los Angeles County
<b>Lead*</b>						
30-Day	>= 1.5 µg/m <sup>3</sup>		0.02	1%	N/A	Central Los Angeles, South Central Los Angeles County
30-Day			0.35	23%	N/A	Central Los Angeles

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

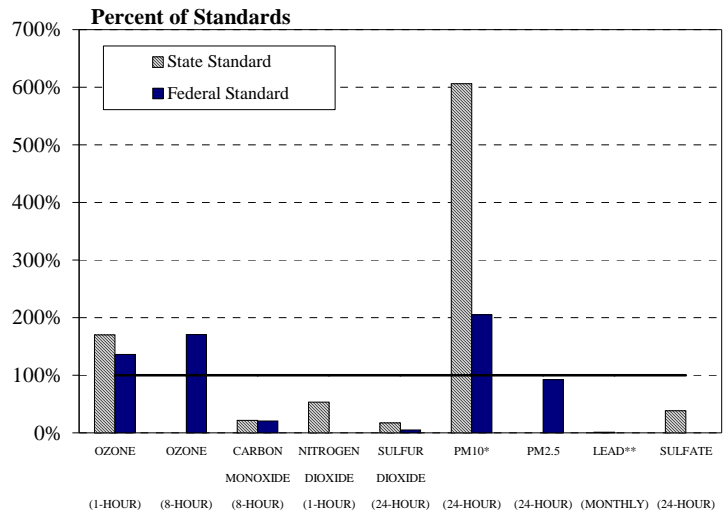


South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

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

During May and June, 2003, the concentrations of carbon monoxide, nitrogen dioxide, sulfur dioxide, PM2.5, sulfate and lead were within state and federal air quality standards at all locations monitored by the District. Ozone concentrations exceeded the federal and state standards at most locations monitored. PM10 concentrations were within the federal standard at all locations in the South Coast Air Basin, while exceeding on one day in each month of May and June in the Coachella Valley in the Salton Sea Air Basin. The PM10 state standard was exceeded at most locations monitored in the District.

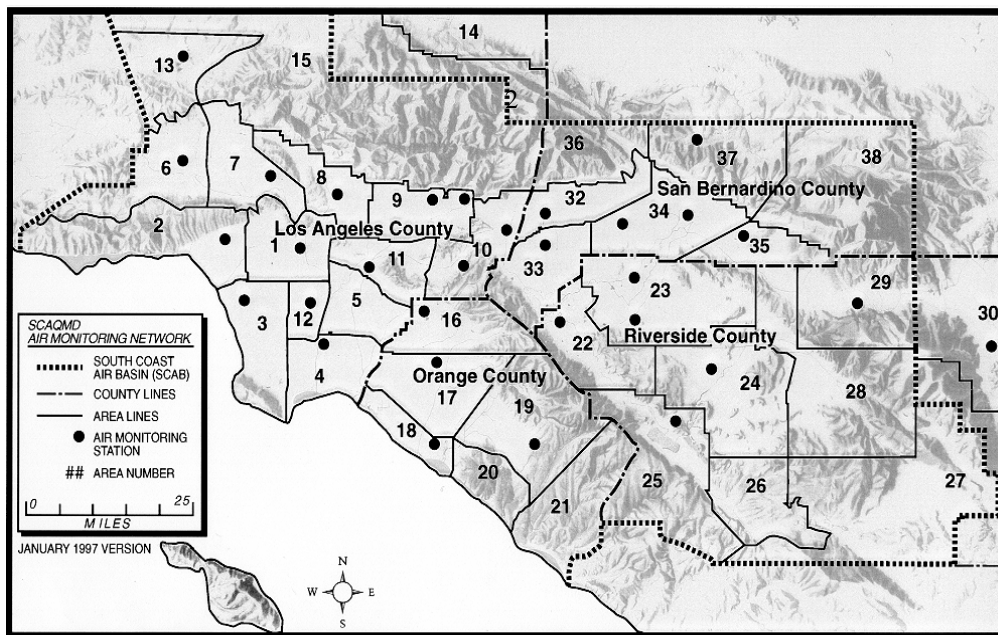
Figure 2 shows the location of the District's air monitoring stations in each source/receptor area. The source/receptor area names and numbers, air monitoring station numbers, the number of days exceeding the state and federal standards and the maximum concentrations of the pollutants in each source/receptor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



++High PM10 concentration, recorded in Coachella Valley area, was due to windblown dust and may be excluded according to the Natural Event Policy.

**Figure 1**  
 Maximum Concentrations as Percent of State and Federal Standards for May and June 2003

**Figure 3**



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

Table 2  
May 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 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	3	1	0	0.15	0.080	0/0	0/0	2.00	3	0	0.14	0.005	0.01	
2	Northwest Coastal LA County	091	2	0	0	0.10	0.082	0/0	0/0	1.29	2	0	0.06			
3	Southwest Coastal LA County	094	0	0	0	0.08	0.075	0/0	0/0	1.57	3	0	0.08	0.003	0.01	
4	South Coastal LA County	072	1	0	0	0.10	0.067	0/0	0/0	1.71	2	0	0.08	0.006	0.03	
6	West San Fernando Valley	074	10	0	1	0.13	0.102	0/0	0/0	1.57	2	0	0.08			
7	East San Fernando Valley	069	4	0	1	0.13	0.086	0/0	0/0	1.75	2	0	0.10	0.001	0.01	
8	West San Gabriel Valley	088	5	1	2	0.15	0.097	0/0	0/0	1.88	2	0	0.10			
9	East San Gabriel Valley 1	060	6	1	1	0.15	0.101	0/0	0/0	1.63	2	0	0.09			
9	East San Gabriel Valley 2	591	9	1	3	0.16	0.112	0/0	0/0	1.38	2	0	0.10			
10	Pomona/Walnut Valley	075	5	1	1	0.16	0.106	0/0	0/0	1.71	3	0	0.09			
11	South San Gabriel Valley	085	3	0	1	0.13	0.082	0/0	0/0	1.71	2	0	0.10			
12	South Central LA County	084	0	0	0	0.08	0.053	0/0	0/0	2.00	4	0	0.10			
13	Santa Clarita Valley	090	14	0	2	0.13	0.101	0/0	0/0	1.00	2	0	0.06			
ORANGE COUNTY																
16	North Orange County	3177	2	1	1	0.17	0.088	0/0	0/0	1.29	2	0	0.08			
17	Central Orange County	3176	3	0	1	0.13	0.082	0/0	0/0	1.43	2	0	0.07			
18	North Coastal Orange County	3195	2	0	0	0.10	0.083	0/0	0/0	0.86	1	0	0.05	0.001	0.00	
19	Saddleback Valley	3812	4	1	2	0.15	0.106	0/0	0/0	1.00	1					
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	13	0	2	0.14	0.116	0/0	0/0	1.57	3	0	0.08	0.004	0.01	
23	Metropolitan Riverside County 2	4146														
24	Perris Valley	4149	10	0	0	0.12	0.097									
25	Lake Elsinore	4158	7	0	0	0.12	0.097	0/0	0/0	1.14	2	0	0.06			
29	Banning Airport	4164	14	0	4	0.13	0.115					0	0.07			
30	Coachella Valley 1**	4137	12	0	0	0.13	0.103	0/0	0/0	0.80	1	0	0.05			
30	Coachella Valley 2**	4157	5	0	0	0.12	0.101									
SAN BERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	5	0	1	0.14	0.106	0/0	0/0	1.00	1	0	0.10			
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	12	1	2	0.16	0.116					0	0.09	0.001	0.00	
34	Central San Bernardino Valley 2	5203	8	0	1	0.14	0.111	0/0	0/0	1.33	2	0	0.07			
35	East San Bernardino Valley	5204	16	1	2	0.15	0.131									
37	Central San Bernardino Mountains	5181	14	1	4	0.16	0.136									
38	Big Bear Lake	5818														
District maximum			16	1	4	0.17	0.136	0/0	0/0	2.00	4	0	0.14	0.006	0.03	

\*\* Salton Sea Desert air basin

Table 2 - continued  
 May 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	53	5	0.02	5	8.1	28	0	44.0
2 Northwest Coastal LA County	091							3	6.6			
3 Southwest Coastal LA County	094	0(0%)	0(0%)	5	43	3	0.00	5	9.0			
4 South Coastal LA County	072	0(0%)	0(0%)	5	49	5	0.01	5	8.1	26	0	32.9
6 West San Fernando Valley	074									10	0	25.7
7 East San Fernando Valley	069	1(20%)	0(0%)	5	53					5	0	23.5
8 West San Gabriel Valley	088							5	8.8	9	0	30.5
9 East San Gabriel Valley 1	060	2(40%)	0(0%)	5	74			5	9.3	28	0	31.7
9 East San Gabriel Valley 2	591											
10 Pomona/Walnut Valley	075											
11 South San Gabriel Valley	085					5	0.01	5	8.8	8	0	26.7
12 South Central LA County	084					5	0.01	5	9.7	10	0	38.2
13 Santa Clarita Valley	090	0(0%)	0(0%)	5	39							
ORANGE COUNTY												
16 North Orange County	3177											
17 Central Orange County	3176	0(0%)	0(0%)	5	41					30	0	30.5
18 North Coastal Orange County	3195											
19 Saddleback Valley	3812	0(0%)	0(0%)	5	37					9	0	18.5
RIVERSIDE COUNTY												
22 Norco/Corona	4155	2(50%)	0(0%)	4	61							
23 Metropolitan Riverside County 1	4144	5(56%)	0(0%)	9	96	5	0.01	5	7.7	31	0	50.5
23 Metropolitan Riverside County 2	4146					4	0.00	4	5.2	9	0	42.6
24 Perris Valley	4149	2(40%)	0(0%)	5	63							
25 Lake Elsinore	4158											
29 Banning Airport	4164	0(0%)	0(0%)	4	43							
30 Coachella Valley 1**	4137	0(0%)	0(0%)	5	47					7	0	17.7
30 Coachella Valley 2**	4157	9(90%)	1(10%)	10	227++					9	0	18.0
SAN BERNARDINO COUNTY												
32 Northwest San Bernardino Valley	5175					5	0.01	5	9.0			
33 Southwest San Bernardino Valley	5817	2(40%)	0(0%)	5	66					10	0	35.7
34 Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	83			5	8.0	10	0	39.4
34 Central San Bernardino Valley 2	5203	2(40%)	0(0%)	5	59	5	0.01	5	6.6	10	0	49.6
35 East San Bernardino Valley	5204	1(20%)	0(0%)	5	54							
37 Central San Bernardino Mountains	5181	0(0%)	0(0%)	5	30							
38 Big Bear Lake	5818									4	0	9.8
District maximum		9	1		227++		0.02		9.7		0	50.5

\*\*Salton Sea Desert air basin.

\*\*\*Lead concentrations at special monitoring sites adjacent to lead sources continued to be monitored in May 2003. Maximum monthly concentration is 0.35 ug/m3.

++This high PM10 concentration recorded in Coachella Valley area was due to windblown dust and may be excluded according to the Natural Event Policy.

Table 3  
June 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	Max 8-hr/1-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	
LOS ANGELES COUNTY															
1 Central LA	087	2	0	0	0.12	0.075	0/0	0/0	1.29	2	0	0.08	0.003	0.05	
2 Northwest Coastal LA County	091	0	0	0	0.09	0.076	0/0	0/0	1.14	2	0	0.04			
3 Southwest Coastal LA County	094	0	0	0	0.08	0.066	0/0	0/0	1.00	2	0	0.05	0.002	0.01	
4 South Coastal LA County	072	0	0	0	0.08	0.061	0/0	0/0	1.00	1	0	0.06	0.004	0.02	
6 West San Fernando Valley	074	10	0	2	11	0.13	0.111	0/0	0/0	1.00	1	0	0.06		
7 East San Fernando Valley	069	6	0	0	4	0.12	0.096	0/0	0/0	1.43	2	0	0.07	0.001	0.01
8 West San Gabriel Valley	088	6	0	1	4	0.13	0.095	0/0	0/0	1.29	2	0	0.07		
9 East San Gabriel Valley 1	060	6	0	2	5	0.14	0.101	0/0	0/0	1.00	1	0	0.07		
9 East San Gabriel Valley 2	591	6	1	3	6	0.15	0.107	0/0	0/0	1.13	2	0	0.08		
10 Pomona/Walnut Valley	075	6	1	2	6	0.15	0.108	0/0	0/0	1.57	2	0	0.10		
11 South San Gabriel Valley	085	2	0	0	0	0.12	0.083	0/0	0/0	1.43	2	0	0.08		
12 South Central LA County	084	0	0	0	0	0.08	0.060	0/0	0/0	1.57	3	0	0.06		
13 Santa Clarita Valley	090	13	2	7	12	0.15	0.126	0/0	0/0	1.00	2	0	0.07		
ORANGE COUNTY															
16 North Orange County	3177	1	0	0	0	0.10	0.083	0/0	0/0	1.29	2	0	0.07		
17 Central Orange County	3176	1	0	0	0	0.10	0.083	0/0	0/0	1.00	1	0	0.05		
18 North Coastal Orange County	3195	0	0	0	0	0.09	0.080	0/0	0/0	0.86	1	0	0.04	0.002	0.01
19 Saddleback Valley	3812	1	0	0	1	0.10	0.085	0/0	0/0	1.00	1				
RIVERSIDE COUNTY															
22 Norco/Corona	4155														
23 Metropolitan Riverside County 1	4144	10	1	3	10	0.15	0.122	0/0	0/0	1.29	2	0	0.06	0.008	0.01
23 Metropolitan Riverside County 2	4146							0/0	0/0	1.38	2				
24 Perris Valley	4149	12	0	0	9	0.12	0.112								
25 Lake Elsinore	4158	10	0	1	8	0.13	0.112	0/0	0/0	1.00	1	0	0.05		
29 Banning Airport	4164	16	0	8	15	0.14	0.126					0	0.07		
30 Coachella Valley 1**	4137	14	0	1	11	0.13	0.111	0/0	0/0	0.00	0	0	0.04		
30 Coachella Valley 2**	4157	8	0	0	7	0.12	0.106								
SAN BERNARDINO COUNTY															
32 Northwest San Bernardino Valley	5175	6	0	3	6	0.14	0.107	0/0	0/0	1.00	1	0	0.09		
33 Southwest San Bernardino Valley	5817														
34 Central San Bernardino Valley 1	5197	10	3	6	8	0.16	0.133					0	0.09	0.001	0.01
34 Central San Bernardino Valley 2	5203	10	0	4	10	0.14	0.122	0/0	0/0	1.17	2	0	0.06		
35 East San Bernardino Valley	5204	14	2	6	12	0.15	0.128								
37 Central San Bernardino Mountains	5181	17	3	9	17	0.16	0.145								
38 Big Bear Lake	5818														
District maximum		17	3	9	17	0.16	0.145	0/0	0/0	1.57	3	0	0.10	0.008	0.05

\*\* Salton Sea air basin

Table 3- continued  
June 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	58	5	0.02	5	9.2	28	0	38.2
2	Northwest Coastal LA County	091							5	7.4			
3	Southwest Coastal LA County	094	0(0%)	0(0%)	5	44	5	0.00	5	9.3			
4	South Coastal LA County	072	0(0%)	0(0%)	5	33	5	0.01	5	8.4	30	0	29.1
6	West San Fernando Valley	074									10	0	37.5
7	East San Fernando Valley	069	1(20%)	0(0%)	5	55					8	0	41.6
8	West San Gabriel Valley	088							4	8.2	10	0	36.0
9	East San Gabriel Valley 1	060	2(40%)	0(0%)	5	85			5	9.3	27	0	34.1
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					5	0.01	5	9.4	10	0	29.2
12	South Central LA County	084					5	0.02	5	9.4	10	0	29.3
13	Santa Clarita Valley	090	1(20%)	0(0%)	5	52							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	5	41					30	0	25.4
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	37					10	0	17.4
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(20%)	0(0%)	5	53							
23	Metropolitan Riverside County 1	4144	6(60%)	0(0%)	10	87	5	0.01	5	8.1	29	0	60.5
23	Metropolitan Riverside County 2	4146					5	0.01	5	7.0	9	0	52.1
24	Perris Valley	4149	1(20%)	0(0%)	5	55							
25	Lake Elsinore	4158											
29	Banning Airport	4164	1(20%)	0(0%)	5	51							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	35					6	0	16.4
30	Coachella Valley 2**	4157	7(70%)	1(10%)	10	309++					10	0	18.0
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.01	5	8.2			
33	Southwest San Bernardino Valley	5817	1(20%)	0(0%)	5	57					10	0	41.1
34	Central San Bernardino Valley 1	5197	4(80%)	0(0%)	5	74			5	8.8	10	0	45.5
34	Central San Bernardino Valley 2	5203	4(80%)	0(0%)	5	77	5	0.01	3	8.5	9	0	55.1
35	East San Bernardino Valley	5204	4(80%)	0(0%)	5	75							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	5	37							
38	Big Bear Lake	5818									5	0	9.3
District maximum			7	1		309++		0.02		9.4		0	60.5

\*\* Salton Sea air basin

\*\*\*Lead concentrations at special monitoring sites adjacent to lead sources continued to be monitored in May 2003. Maximum monthly concentration is 0.20 ug/m3.

++This high PM10 concentration recorded in Coachella Valley area was due to windblown dust and may be excluded according to the Natural Event Policy.