

# Air Quality Standards Compliance Report

Statistics for July/August 2003

Vol. 16, No.4

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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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## July and August 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 July and August 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 July/August 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 July/August 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	0.19	190%	152%	Santa Clarita Valley, Central San Bernardino Mountains
8-Hour		> 0.08 ppm	0.155	N/A	182%	Santa Clarita Valley, East San Bernardino Valley
<b>Carbon Monoxide</b>						
8-Hour	> 9.0 ppm	> 9 ppm	2.14	224%	23%	West San Gabriel Valley
<b>Nitrogen Dioxide</b>						
1-Hour	> 0.25 ppm		0.14	54%	N/A	Central Los Angeles
24-Hour			0.062	N/A	N/A	Central Los Angeles
<b>Sulfur Dioxide</b>						
1-Hour	> 0.25 ppm		0.03	12%	N/A	South Coast Los Angeles County
24-Hour	> 0.04 ppm	> 0.14 ppm	0.013	32%	9%	Central Los Angeles
<b>Particulate (PM10)</b>						
24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	159	312%	105%	Metropolitan Riverside County
<b>Particulate (PM2.5)</b>						
24-Hour		> 65 µg/m <sup>3</sup>	121.2	N/A	185%	East San Gabriel Valley
<b>Sulfates*</b>						
24-Hour	>= 25 µg/m <sup>3</sup>		9.7	39%	N/A	South Coastal Los Angeles County
<b>Lead*</b>						
30-Day	>= 1.5 µg/m <sup>3</sup>		0.02	1%	N/A	Several Locations
30-Day*			0.30	20%	N/A	Central Los Angeles

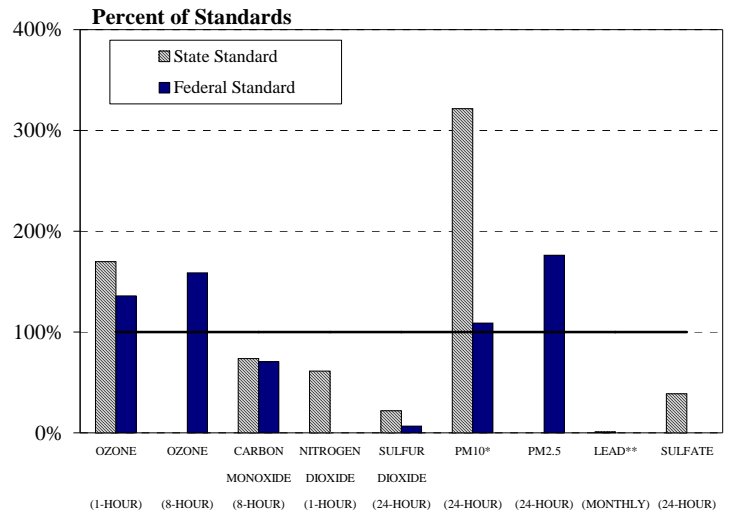
\* Higher lead concentrations were recorded at special monitoring sites in the immediate vicinity of major lead sources.  
N/A = No Applicable standard.



South Coast Air Quality Management District  
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<http://www.aqmd.gov>

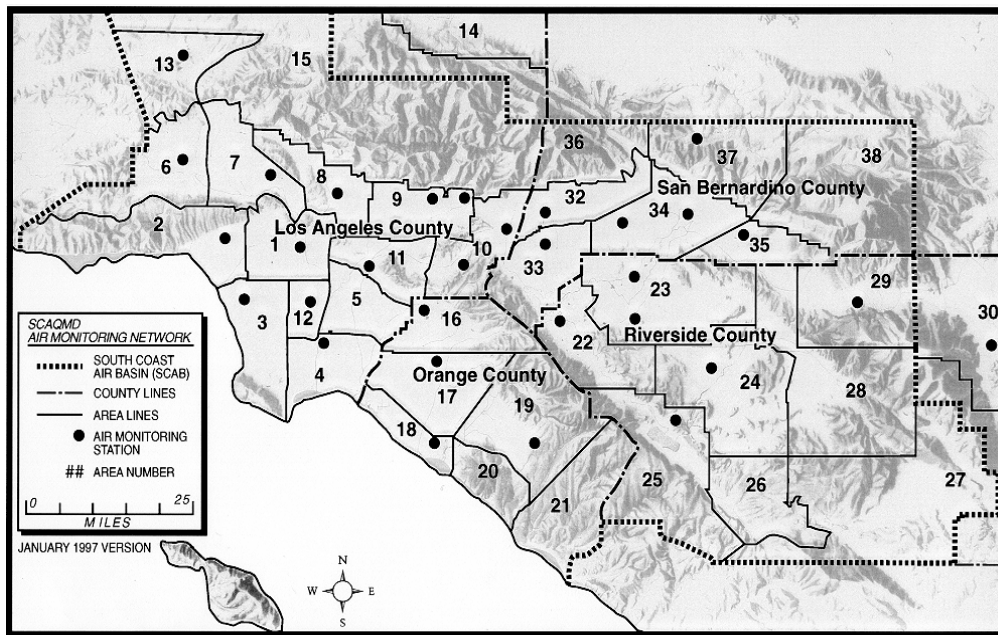
Figure 1 shows the maximum pollutant concentrations recorded during July - August 2003 as percentages of the state and federal ambient air quality standards.

During July and August, 2003, 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 federal and state standards at most locations monitored. PM10 concentrations exceeded the federal standard at one location in July in Metropolitan Riverside area, while exceeding state standard at most locations monitored in the District. PM2.5 concentrations exceeded the federal standard at a few locations in Los Angeles County in July, while meeting the standard at all locations in August.



**Figure 1**  
 Maximum Concentrations as Percent of State and Federal Standards for July and August 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 July and August 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  
July 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	Days Exceeding Fed Std 8-hr	Max 1-hr ppm	Max 8-hr ppm	Days Exceeding State Std 8-hr/1-hr	Days Exceeding Fed Std 8-hr/1-hr	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	1	0	1	0.10	0.085	0/0	0/0	1.43	2	0	0.08	0.007	0.01
2 Northwest Coastal LA County	091	0	0	0	0.09	0.080	0/0	0/0	1.14	2	0	0.05		
3 Southwest Coastal LA County	094	0	0	0	0.08	0.066	0/0	0/0	1.29	2	0	0.06	0.005	0.01
4 South Coastal LA County	072	0	0	0	0.08	0.070	0/0	0/0	1.00	1	0	0.07	0.008	0.02
6 West San Fernando Valley	074	18	3	7	0.18	0.128	0/0	0/0	1.29	2	0	0.09		
7 East San Fernando Valley	069	10	0	1	0.13	0.101	0/0	0/0	1.57	2	0	0.09	0.004	0.01
8 West San Gabriel Valley	088	13	0	1	0.13	0.108	0/0	0/0	2.00	2	0	0.10		
9 East San Gabriel Valley 1	060	9	1	3	0.15	0.126	0/0	0/0	1.14	2	0	0.07		
9 East San Gabriel Valley 2	591	14	2	5	0.15	0.136	0/0	0/0	1.14	2	0	0.09		
10 Pomona/Walnut Valley	075	11	0	3	0.14	0.120	0/0	0/0	1.43	2	0	0.09		
11 South San Gabriel Valley	085	2	0	0	0.12	0.097	0/0	0/0	1.00	1	0	0.09		
12 South Central LA County	084	0	0	0	0.08	0.063	0/0	0/0	1.43	2	0	0.07		
13 Santa Clarita Valley	090	24	9	16	0.19	0.155	0/0	0/0	1.14	2	0	0.08		
ORANGE COUNTY														
16 North Orange County	3177	0	0	0	0.09	0.072	0/0	0/0	1.14	2	0	0.07		
17 Central Orange County	3176	1	0	0	0.10	0.081	0/0	0/0	0.86	1	0	0.05		
18 North Coastal Orange County	3195	0	0	0	0.08	0.070	0/0	0/0	0.50	1	0	0.04	0.001	0.01
19 Saddleback Valley	3812	1	0	0	0.10	0.076	0/0	0/0	0.43	1				
RIVERSIDE COUNTY														
22 Norco/Corona	4155													
23 Metropolitan Riverside County 1	4144	22	2	6	0.16	0.135	0/0	0/0	1.38	2	0	0.08	0.012	0.02
23 Metropolitan Riverside County 2	4146						0/0	0/0	1.50	3				
24 Perris Valley	4149	19	1	4	0.16	0.121								
25 Lake Elsinore	4158	14	2	5	0.15	0.136	0/0	0/0	1.00	1	0	0.05		
29 Banning/San Geronio Pass	4164	22	5	11	0.17	0.147					0	0.07		
30 Coachella Valley 1**	4137	18	0	3	0.14	0.110	0/0	0/0	0.88	1	0	0.04		
30 Coachella Valley 2**	4157	9	0	0	0.11	0.103								
SAN BERNARDINO COUNTY														
32 Northwest San Bernardino Valley	5175	15	2	4	0.15	0.135	0/0	0/0	1.00	1	0	0.10		
33 Southwest San Bernardino Valley	5817													
34 Central San Bernardino Valley 1	5197	20	3	8	0.16	0.148					0	0.08	0.003	0.01
34 Central San Bernardino Valley 2	5203	20	3	7	0.16	0.133	0/0	0/0	1.88	2	0	0.08		
35 East San Bernardino Valley	5204	24	5	15	0.20	0.146								
37 Central San Bernardino Mountains	5181	24	9	16	0.19	0.141								
38 Big Bear Lake	5818													
District maximum		24	9	16	0.19	0.155	0/0	0/0	2.00	3	0	0.10	0.012	0.02

\*\* Salton Sea air basin

Table 2 - continued  
 July 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%)	5	48	5	0.02	5	9.1	29	2	69.6
2 Northwest Coastal LA County	091						5	8.2			
3 Southwest Coastal LA County	094	0(0%)	5	44	5	0.00	5	9.0			
4 South Coastal LA County	072	0(0%)	5	36	5	0.01	5	9.7	31	0	26.4
6 West San Fernando Valley	074								10	0	45.0
7 East San Fernando Valley	069	1(20%)	5	53					9	1	120.6
8 West San Gabriel Valley	088							5	10	1	89.0
9 East San Gabriel Valley 1	060	3(60%)	5	80			4	8.5	27	1	121.2
9 East San Gabriel Valley 2	591										
10 Pomona/Walnut Valley	075										
11 South San Gabriel Valley	085				5	0.01	5	9.2	6	0	51.1
12 South Central LA County	084				5	0.01	5	8.7	10	0	24.1
13 Santa Clarita Valley	090	4(80%)	5	67							
ORANGE COUNTY											
16 North Orange County	3177										
17 Central Orange County	3176	0(0%)	5	34					31	0	46.8
18 North Coastal Orange County	3195										
19 Saddleback Valley	3812	0(0%)	4	44					3	0	19.8
RIVERSIDE COUNTY											
22 Norco/Corona	4155	2(50%)	4	67							
23 Metropolitan Riverside County 1	4144	6(86%)	7	159	5	0.01	5	7.3	30	0	47.7
23 Metropolitan Riverside County 2	4146				5	0.01	5	6.8	10	0	41.6
24 Perris Valley	4149	5(100%)	5	116							
25 Lake Elsinore	4158										
29 Banning/San Gorgonio Pass	4164	2(40%)	5	53							
30 Coachella Valley 1**	4137	3(60%)	5	72					10	0	20.5
30 Coachella Valley 2**	4157	7(78%)	9	74					10	0	18.1
SAN BERNARDINO COUNTY											
32 Northwest San Bernardino Valley	5175				5	0.02	5	7.9			
33 Southwest San Bernardino Valley	5817	1(20%)	5	52					10	0	50.4
34 Central San Bernardino Valley 1	5197	4(80%)	5	80	1	0.02	5	8.2	10	0	44.0
34 Central San Bernardino Valley 2	5203	3(60%)	5	64	5	0.01	5	7.8	10	0	39.3
35 East San Bernardino Valley	5204	3(60%)	5	61							
37 Central San Bernardino Mountains	5181	0(0%)	5	39							
38 Big Bear Lake	5818								5	0	12.3
District maximum		7	1	159		0.02		9.7		2	121.2

\*\* Salton Sea air basin

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

Table 3  
August 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	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	1	0.11	0.085	0/0	0/0	1.86	3	0	0.14	0.013	0.02
2 Northwest Coastal LA County	091	5	0	0	0	0.12	0.081	0/0	0/0	1.57	2	0	0.07		
3 Southwest Coastal LA County	094	0	0	0	0	0.08	0.058	0/0	0/0	1.57	2	0	0.07	0.005	0.02
4 South Coastal LA County	072	0	0	0	0	0.09	0.062	0/0	0/0	1.00	2	0	0.09	0.006	0.03
6 West San Fernando Valley	074	11	0	2	6	0.14	0.126	0/0	0/0	1.29	2	0	0.07		
7 East San Fernando Valley	069	10	0	1	4	0.13	0.107	0/0	0/0	1.57	2	0	0.09	0.006	0.01
8 West San Gabriel Valley	088	9	0	2	6	0.13	0.103	0/0	0/0	2.14	3	0	0.09		
9 East San Gabriel Valley 1	060	8	0	3	6	0.14	0.110	0/0	0/0	1.33	2	0	0.09		
9 East San Gabriel Valley 2	591	14	3	5	9	0.16	0.127	0/0	0/0	1.14	2	0	0.08		
10 Pomona/Walnut Valley	075	8	2	3	4	0.16	0.122	0/0	0/0	1.86	3	0	0.10		
11 South San Gabriel Valley	085	6	0	0	1	0.11	0.086	0/0	0/0	1.71	2	0	0.10		
12 South Central LA County 1	084	0	0	0	0	0.07	0.053	0/0	0/0	2.00	4	0	0.09		
13 Santa Clarita Valley 2	090	18	2	4	11	0.15	0.135	0/0	0/0	1.14	2	0	0.07		
ORANGE COUNTY															
16 North Orange County	3177	3	0	0	1	0.12	0.087	0/0	0/0	1.29	2	0	0.07		
17 Central Orange County	3176	4	0	1	1	0.14	0.088	0/0	0/0	1.00	1	0	0.06		
18 North Coastal Orange County	3195	1	0	0	0	0.11	0.076	0/0	0/0	0.86	1	0	0.03	0.010	0.01
19 Saddleback Valley	3812	4	0	1	1	0.13	0.091	0/0	0/0	0.86	1				
RIVERSIDE COUNTY															
22 Norco/Corona	4155														
23 Metropolitan Riverside County 1	4144	15	2	3	12	0.16	0.141	0/0	0/0	1.57	2	0	0.08	0.011	0.02
23 Metropolitan Riverside County 2	4146							0/0	0/0	1.50	2				
24 Perris Valley	4149	12	0	2	6	0.14	0.118								
25 Lake Elsinore	4158	8	0	0	5	0.12	0.097	0/0	0/0	1.00	1	0	0.05		
29 Banning/San Gorgonio Pass	4164	10	1	3	10	0.15	0.131					0	0.06		
30 Coachella Valley 1**	4137	4	0	0	2	0.11	0.095	0/0	0/0	0.29	1	0	0.05		
30 Coachella Valley 2**	4157	2	0	0	1	0.11	0.085								
SAN BERNARDINO COUNTY															
32 Northwest San Bernardino Valley	5175	11	2	3	7	0.16	0.126	0/0	0/0	0.75	1	0	0.09		
33 Southwest San Bernardino Valley	5817														
34 Central San Bernardino Valley 1	5197	15	2	7	7	0.18	0.145					0	0.08	0.001	0.00
34 Central San Bernardino Valley 2	5203	12	1	3	9	0.16	0.138	0/0	0/0	1.71	3	0	0.08		
35 East San Bernardino Valley	5204	19	2	8	15	0.17	0.155					0	-0.01		
37 Central San Bernardino Mountains	5181	19	0	7	14	0.14	0.122					0	-0.01		
38 Big Bear Lake	5818														
District maximum		19	3	8	15	0.18	0.155	0/0	0/0	2.14	4	0	0.14	0.013	0.03

\*\* Salton Sea air basin

Table 3- continued  
August 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 Conc. ug/m3	
LOS ANGELES COUNTY													
1	Central LA	087	0(0%)	0(0%)	6	49	6	0.02	6	7.3	28	0	22.3
2	Northwest Coastal LA County	091							6	7.8			
3	Southwest Coastal LA County	094	0(0%)	0(0%)	6	40	6	0.00	6	9.3			
4	South Coastal LA County	072	0(0%)	0(0%)	6	40	7	0.02	7	8.5	31	0	20.1
6	West San Fernando Valley	074									11	0	18.6
7	East San Fernando Valley	069	0(0%)	0(0%)	5	47					9	0	18.1
8	West San Gabriel Valley	088							6	6.5	9	0	20.0
9	East San Gabriel Valley 1	060	4(67%)	0(0%)	6	89			5	7.3	25	0	22.6
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					6	0.01	6	9.5	11	0	20.0
12	South Central LA County 1	084					6	0.01	6	9.2	11	0	18.3
13	Santa Clarita Valley 2	090	1(17%)	0(0%)	6	54							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	6	45					30	0	17.0
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	6	45					10	0	16.2
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(20%)	0(0%)	5	55							
23	Metropolitan Riverside County 1	4144	7(70%)	0(0%)	10	83	6	0.01	6	5.7	30	0	23.4
23	Metropolitan Riverside County 2	4146					6	0.01	6	5.9	11	0	22.0
24	Perris Valley	4149	2(33%)	0(0%)	6	64							
25	Lake Elsinore	4158											
29	Banning/San Geronio Pass	4164	2(33%)	0(0%)	6	79							
30	Coachella Valley 1**	4137	1(17%)	0(0%)	6	108					11	0	14.5
30	Coachella Valley 2**	4157	6(60%)	0(0%)	10	124					11	0	13.7
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					6	0.02	6	7.9			
33	Southwest San Bernardino Valley	5817	1(17%)	0(0%)	6	58					11	0	20.0
34	Central San Bernardino Valley 1	5197	5(83%)	0(0%)	6	79			6	6.5	11	0	23.5
34	Central San Bernardino Valley 2	5203	2(100%)	0(0%)	2	54	6	0.01	6	6.6	11	0	20.6
35	East San Bernardino Valley	5204	1(17%)	0(0%)	6	55							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	1	42							
38	Big Bear Lake	5818									5	0	14.3
District maximum			7	0		124		0.02		9.5		0	23.5

\*\* Salton Sea air basin

\*\*\*Lead concentrations at special monitoring sites adjacent to lead sources continued to be monitored in August 2003. Maximum monthly concentration is 0.30 ug/m3.