

Air Quality Standards Compliance Report (AQSCR)

Statistics for January/February 2005

Vol. 18, No. 1

Published May, 2006

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.

Subscription request forms for the AQSCR may be obtained by calling Subscription Services at (909) 396-3720.

Current Air Quality Standards

Table 1 shows the current state and federal ambient air quality standards and compliance requirements to achieve attainment for remaining criteria pollutants in the District.

New Air Quality Standards

Proposed revisions to the federal PM and state ozone standards are briefly summarized below.

National PM Standards

On January 17, 2006, U.S. EPA proposed to make revisions to the national air quality standards for particulate matter (PM) to provide required protection of public health and welfare. With regard to standards for fine particles (PM_{2.5}), U.S. EPA proposes to revise the level of the 24-hour PM_{2.5} standard to 35 µg/m³ and retain the level of

the annual PM_{2.5} standard at 15 µg/m³.

With regard to standards for PM₁₀, U.S. EPA proposes to revise the 24-hour PM₁₀ standard by establishing a new indicator for coarse particles (particles generally between 2.5 and 10 µm in diameter, PM_{10-2.5}), to include PM_{10-2.5} that is mainly generated by resuspended dust from high-density traffic on paved roads, industrial sources, and construction sources; and excludes PM_{10-2.5} that is generated by rural windblown dust and soils and by agricultural and mining sources. U.S. EPA proposes to set the new PM_{10-2.5} standard at a level of 70 µg/m³. Written comments on this proposed decision must be received by U.S. EPA by April 17, 2006.

State Ozone Standards

On April 28, 2005, California Air Resources Board approved revising the California ozone standard to establish a new 8-hour average standard of 0.070 ppm in order to adequately protect public health. The new standard becomes effective on May 17, 2006.

January and February 2005 Air Quality

Shown and summarized in the following tables are air quality statistics for the South Coast Air Basin and the desert area of Coachella Valley for the months of January and February. Table 2 (next page) summarizes the maximum concentrations recorded and location of

Table 1. Ambient Air Quality Standards and Attainment Requirements

Pollutant Averaging Time	Standards		National* Air Quality Standards Compliance Requirements for Attainment
	State	Federal	
Ozone			
1-Hour	> 0.09 ppm		Three-year average of the fourth-highest maximum 8-hour average concentrations at each site should not exceed 0.08 ppm.
8-Hour		> 0.08 ppm	
Carbon Monoxide			National standards at each site not to be exceeded more than once per year.
8-Hour	> 9.0 ppm	> 9 ppm	
1-Hour	> 20 ppm	> 35 ppm	
Particulate (PM₁₀)			Three-year average of the 99th percentile of 24-hour concentrations should not exceed 150 µg/m ³ . Three-year average of annual arithmetic mean concentrations should not exceed 50 µg/m ³ .
24-Hour	> 50 µg/m ³	> 150 µg/m ³	
Annual Arithmetic Mean	> 20 µg/m ³	> 50 µg/m ³	
Particulate (PM_{2.5})			Three-year average of the 98th percentile of 24-hour concentrations should not exceed 65 µg/m ³ . Three-year average of annual arithmetic mean concentrations should not exceed 15.0 µg/m ³ .
24-Hour	-----	> 65 µg/m ³	
Annual Arithmetic Mean	> 12 µg/m ³	> 15 µg/m ³	

* Attainment requirements for California standards for ozone, carbon monoxide, and suspended particulate matter - PM₁₀, PM_{2.5} are standard values not to be exceeded.



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

the maximum during January-February 2005. Figure 1 shows the location of the District's air monitoring stations in each source/receptor area. 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 2005 are summarized in Tables 3 and 4, respectively.

Table 2. Maximum Concentrations Reported in January/February 2005 Compared to the Ambient Air Quality Standards

Pollutant Averaging Time	Criteria Pollutants' Air Quality Standards		Maximum Concentrations			
	State	Federal	ppm/ µg/m ³	% State Standard	% Federal Standard	Location
Ozone						
1-Hour	> 0.09 ppm	> 0.12 ppm	0.06	60%	48%	Several Locations
8-Hour	> 0.07 ppm	> 0.08 ppm	0.057	76%	67%	Coachella Valley
Carbon Monoxide						
8-Hour	> 9.0 ppm	> 9 ppm	5.14	56%	54%	South Central Los Angeles County
Nitrogen Dioxide						
1-Hour	> 0.25 ppm		0.10	38%		Central Los Angeles, Coachella Valley
Sulfur Dioxide						
1-Hour	> 0.25 ppm		0.03	12%		Central Los Angeles
24-Hour	> 0.04 ppm	> 0.14 ppm	0.011	27%	8%	Central Los Angeles
Particulate (PM10)						
24-Hour	> 50 µg/m ³	> 150 µg/m ³	101	198%	67%	Coachella Valley
Particulate (PM2.5)						
24-Hour		> 65 µg/m ³	54.7		84%	Central Orange County
Sulfates						
24-Hour	>= 25 µg/m ³		13.1	52%		South Central Los Angeles County
Lead*						
30-Day	>= 1.5 µg/m ³		0.03	2%		South Central Los Angeles County
30-Day*			0.18	12%		Central Los Angeles

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

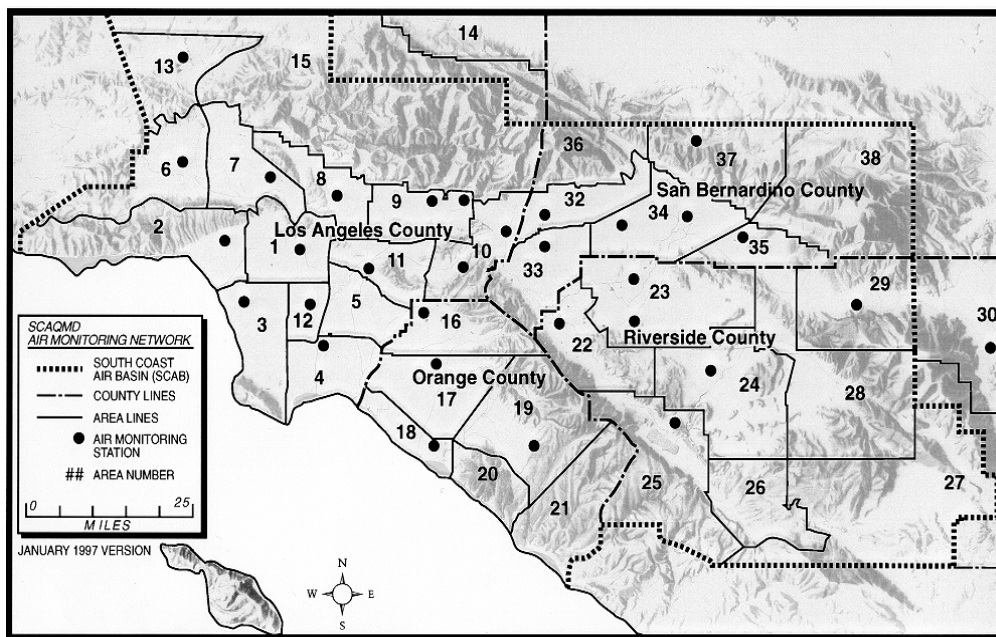


Figure 1
 South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
 Air Basins and Monitoring Stations

Table 3
January 2005
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 Standard* 1-hour	Health Advisory 8-hour	Federal Standard 1-hour	Federal Standard 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					
LOS ANGELES COUNTY																	
1	Central LA	87	0	0	0	0	0	0.04	0.040	0/0	0/0	2.63	3	0	0.10	0.011	0.03
2	Northwest Coastal LA County	91	0	0	0	0	0	0.05	0.043	0/0	0/0	1.88	2	0	0.07		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.05	0.044	0/0	0/0	2.10	3	0	0.07	0.006	0.01
4	South Coastal LA County 1	72	0	0	0	0	0	0.04	0.034	0/0	0/0	2.14	3	0	0.07	0.005	0.02
4	South Coastal LA County 2	77															
6	West San Fernando Valley	74	0	0	0	0	0	0.05	0.045	0/0	0/0	3.38	4	0	0.06		
7	East San Fernando Valley	69	0	0	0	0	0	0.04	0.032	0/0	0/0	3.29	4	0	0.09	0.001	0.01
8	West San Gabriel Valley	88	0	0	0	0	0	0.05	0.037	0/0	0/0	3.00	4	0	0.09		
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.04	0.031	0/0	0/0	1.29	2	0	0.09		
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.04	0.032	0/0	0/0	2.00	2	0	0.08		
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.04	0.030	0/0	0/0	2.5	4	0	0.08		
11	South San Gabriel Valley	85	0	0	0	0	0	0.04	0.036	0/0	0/0	2.43	3	0	0.09		
12	South Central LA County	84	0	0	0	0	0	0.04	0.032	0/0	0/0	4.63	7	0	0.08		
13	Santa Clarita Valley	90	0	0	0	0	0	0.05	0.040	0/0	0/0	1.14	2	0	0.07		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.04	0.030	0/0	0/0	2.88	6	0	0.08		
17	Central Orange County	3176	0	0	0	0	0	0.06	0.052	0/0	0/0	3.00	4	0	0.06		
18	North Coastal Orange County	3195	0	0	0	0	0	0.05	0.046	0/0	0/0	3.29	4	0	0.06	0.01	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.05	0.045	0/0	0/0	1.63	2				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.05	0.040	0/0	0/0	2.14	3	0	0.07	0.002	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	2.00	4				
24	Perris Valley	4149	0	0	0	0	0	0.04	0.030								
25	Lake Elsinore	4158	0	0	0	0	0	0.04	0.038	0/0	0/0	1.00	1	0	0.04		
29	Banning/San Geronio Pass	4164	0	0	0	0	0	0.05	0.046					0	0.04		
30	Coachella Valley 1**	4137	0	0	0	0	0	0.05	0.042	0/0	0/0	0.63	2	0	0.10		
30	Coachella Valley 2**	4157	0	0	0	0	0	0.05	0.041								
SANBERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.04	0.035	0/0	0/0	1.63	2	0	0.07		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.04	0.040	0/0	0/0	1.75	3	0	0.07	0.001	0.01
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.04	0.040	0/0	0/0	2.14	4	0	0.08		
35	East San Bernardino Valley	5204	0	0	0	0	0	0.05	0.045								
37	Central San Bernardino Mountain	5181	0	0	0	0	0	0.06	0.055								
38	Big Bear Lake	5818															
District maximum			0	0	0	0	0	0.06	0.055	0/0	0/0	4.63	7	0	0.10	0.011	0.03

*CARB has approved revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm. The new standard takes effect effective on May 17, 2006.

** Salton Sea Air Basin.

Table 3 (continued)
January 2005
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	PM10				Lead***		Sulfate		PM2.5		
			No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Monthly Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Max 24-hour Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Number Exceeding Federal Standard	Max 24-hour Average $\mu\text{g}/\text{m}^3$
			State Standard	Federal Standard									
LOS ANGELES COUNTY													
1	Central LA	87	1(20%)	0(0%)	5	68	4	0.01	5	4.6	31	0	53.5
2	Northwest Coastal LA County	91							5	5.0			
3	Southwest Coastal LA County	820	0(0%)	0(0%)	4	18	5	0.01	5	5.0			
4	South Coastal LA County 1	72	1(20%)	0(0%)	5	61	5	0.01	5	13.1	30	0	51.4
4	South Coastal LA County 2	77	1(20%)	0(0%)	5	74	4	0.01	4	11.2	31	0	50.8
6	West San Fernando Valley	74									8	0	33.7
7	East San Fernando Valley	69	1(20%)	0(0%)	5	92					11	0	50.6
8	West San Gabriel Valley	88							5	3.5	11	0	41.8
9	East San Gabriel Valley 1	60	1(20%)	0(0%)	5	58			5	3.4	9	0	42.5
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					5	0.02	5	6.7	11	0	51.4
12	South Central LA County	84					5	0.03	5	8.7	11	0	53.8
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	22							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	1(20%)	0(0%)	5	65					28	0	54.7
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	41					8	0	34.5
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(20%)	0(0%)	5	57							
23	Metropolitan Riverside County 1	4144	2(18%)	0(0%)	11	67	5	0.01	5	3.7	26	0	40.5
23	Metropolitan Riverside County 2	4146					5	0.01	5	2.0	11	0	26.9
24	Perris Valley	4149	0(0%)	0(0%)	5	39							
25	Lake Elsinore	4158											
29	Banning/San Geronio Pass	4164	0(0%)	0(0%)	5	34							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	50					8	0	23.2
30	Coachella Valley 2**	4157	1(9%)	0(0%)	11	101					11	0	25.0
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.01	5	3.1			
33	Southwest San Bernardino Valley	5817	1(20%)	0(0%)	5	70					9	0	49.5
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	5	33			5	2.1	10	0	38.1
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	41	5	0.01	5	1.2	10	0	20.9
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	14							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	3	39							
38	Big Bear Lake	5818									3	0	38.8
District maximum			2	0		101		0.03		13.1		0	54.7

** Salton Sea Air Basin

***Special monitoring of lead near stationary sources was carried out in January 2005 and the maximum monthly average was 0.16 $\mu\text{g}/\text{m}^3$ recorded in Central Los Angeles.

Table 4
February 2005
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 Standard* 1-hour	State Standard* 8-hour	Health Advisory	Federal Standard 1-hour	Federal Standard 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
LOS ANGELES COUNTY																	
1	Central LA	87	0	0	0	0	0	0.04	0.038	0/0	0/0	2.25	3	0	0.06	0.007	0.01
2	Northwest Coastal LA County	91	0	0	0	0	0	0.05	0.050	0/0	0/0	1.50	2	0	0.06		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.05	0.047	0/0	0/0	1.50	2	0	0.07	0.005	0.01
4	South Coastal LA County 1	72	0	0	0	0	0	0.05	0.038	0/0	0/0	2.57	3	0	0.06	0.003	0.01
4	South Coastal LA County 2	77															
6	West San Fernando Valley	74	0	0	0	0	0	0.06	0.048	0/0	0/0	2.13	3	0	0.07		
7	East San Fernando Valley	69	0	0	0	0	0	0.05	0.045	0/0	0/0	2.29	4	0	0.06	0.001	0
8	West San Gabriel Valley	88	0	0	0	0	0	0.05	0.043	0/0	0/0	1.00	1	0	0.05		
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.05	0.047	0/0	0/0	1.00	1	0	0.06		
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.05	0.045	0/0	0/0	1.00	1	0	0.05		
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.06	0.045	0/0	0/0	1.71	3	0	0.06		
11	South San Gabriel Valley	85	0	0	0	0	0	0.05	0.038	0/0	0/0	2.29	3	0	0.06		
12	South Central LA County	84	0	0	0	0	0	0.05	0.040	0/0	0/0	5.14	7	0	0.08		
13	Santa Clarita Valley	90	0	0	0	0	0	0.06	0.051	0/0	0/0	1.00	1	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.04	0.040	0/0	0/0	2.00	4	0	0.05		
17	Central Orange County	3176	0	0	0	0	0	0.06	0.051	0/0	0/0	1.57	3	0	0.06		
18	North Coastal Orange County	3195	0	0	0	0	0	0.05	0.048	0/0	0/0	2.00	3	0	0.05	0.010	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.05	0.048	0/0	0/0	1.00	1				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.06	0.055	0/0	0/0	1.57	2	0	0.04	0.010	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	1.63	3				
24	Perris Valley	4149	0	0	0	0	0	0.05	0.045								
25	Lake Elsinore	4158	0	0	0	0	0	0.05	0.048	0/0	0/0	0.57	1	0	0.04		
29	Banning/San Geronio Pass	4164	0	0	0	0	0	0.06	0.053					0	0.05		
30	Coachella Valley 1**	4137	0	0	0	0	0	0.06	0.057	0/0	0/0	0.63	1	0	0.04		
30	Coachella Valley 2**	4157	0	0	0	0	0	0.06	0.055								
SANBERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.05	0.048	0/0	0/0	1.29	2	0	0.06		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.05	0.045	0/0	0/0	1.43	2	0	0.06	0.001	0.01
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.06	0.046	0/0	0/0	1.71	2	0	0.05		
35	East San Bernardino Valley	5204	0	0	0	0	0	0.05	0.041								
37	Central San Bernardino Mountain	5181	0	0	0	0	0	0.06	0.052								
38	Big Bear Lake	5818															
District maximum			0	0	0	0	0	0.06	0.057	0/0	0/0	5.14	7	0	0.08	0.010	0.01

* CARB has approved revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm. The new standard takes effect on May 17, 2006.

** Salton Sea Air Basin at this time.

Table 4 (continued)
February 2005
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	PM10				Lead***		Sulfate		PM2.5		
			No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Monthly Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Max 24-hour Average $\mu\text{g}/\text{m}^3$	Number Days Sampled	Number Exceeding Federal Standard	Max 24-hour Average $\mu\text{g}/\text{m}^3$
			State Standard	Federal Standard									
LOS ANGELES COUNTY													
1	Central LA	87	0(0%)	0(0%)	5	27	5	0.02	6	3.3	28	0	31.8
2	Northwest Coastal LA County	91							5	2.8			
3	Southwest Coastal LA County	820	0(0%)	0(0%)	4	25	4	0.01	4	2.7			
4	South Coastal LA County 1	72	0(0%)	0(0%)	4	30	4	0.01	5	5.5	27	0	26.1
4	South Coastal LA County 2	77	1(20%)	0(0%)	5	53	4	0.01	5	5.2	28	0	23.6
6	West San Fernando Valley	74									7	0	18.0
7	East San Fernando Valley	69	0(0%)	0(0%)	5	31					9	0	20.2
8	West San Gabriel Valley	88							5	2.3	9	0	17.4
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	4	23			5	2.8	26	0	22.4
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					5	0.02	5	4.2	8	0	21.8
12	South Central LA County	84					5	0.03	5	4.1	9	0	19.6
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	18							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	5	24					28	0	23.9
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	12					9	0	9.2.0
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	5	24							
23	Metropolitan Riverside County 1	4144	0(0%)	0(0%)	9	42	5	0.01	5	3.1	24	0	35.1
23	Metropolitan Riverside County 2	4146					5	0.01	5	3	9	0	21.9
24	Perris Valley	4149	0(0%)	0(0%)	5	32							
25	Lake Elsinore	4158											
29	Banning/San Geronio Pass	4164	0(0%)	0(0%)	5	28							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	18					9	0	12.3
30	Coachella Valley 2**	4157	1(13%)	0(0%)	8	63					7	0	14.6
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					4	0.01	4	2.9			
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	5	38					8	0	24.5
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	5	39			5	3.4	9	0	26.3
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	36	5	0.01	5	3.7	9	0	24.3
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	29							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	24							
38	Big Bear Lake	5818									4	0	23
District maximum			1	0		63		0.03		5.5		0	35.1

** Salton Sea Air Basin

***Special monitoring of lead near stationary sources was carried out in February 2005 and the maximum monthly average was $0.18 \mu\text{g}/\text{m}^3$ recorded in Central Los Angeles.