

Air Quality Standards Compliance Report (AQSCR)

Statistics for January/February 2006

Vol. 19, No. 1

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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.

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

Current Air Quality Standards

Currently, the District is designated as non-attainment for ozone, PM_{2.5}, and PM₁₀. Table 1

(below) shows updated current state and federal ambient air quality standards as of May 2007.

January and February 2006 Air Quality

Air quality statistics for the South Coast Air Basin and the desert area of Coachella Valley for the months of January and February are summarized in Tables 2 and 3. The tables show maximum concentrations of the pollutants in each source/receptor area and number of days on which the locations monitored exceeded federal and/or state standards during the months of January and February 2006. Figure 1 shows the location of the District's air monitoring stations in each source/receptor area.

Table 1
Ambient Air Quality Standards

	CALIFORNIA	FEDERAL
AIR POLLUTANT	CONCENTRATION (> OR ≥)	CONCENTRATION (>)
Ozone^{a)}	0.09 ppm, 1-hour average > 0.07 ppm, 8-hour average >	0.12 ppm, 1-hour average 0.08 ppm, 8-hour average
Suspended Particulate Matter (PM_{2.5})^{b)}	12 µg/m ³ , annual arithmetic mean >	15 µg/m ³ , annual arithmetic mean 35 µg/m ³ , 24-hour average
Suspended Particulate Matter (PM₁₀)^{c)}	20 µg/m ³ , annual arithmetic mean > 50 µg/m ³ , 24-hour average >	150 µg/m ³ , 24-hour average
Carbon Monoxide	9.0 ppm, 8-hour average > 20 ppm, 1-hour average >	9 ppm, 8-hour average 35 ppm, 1-hour average
Nitrogen Dioxide^{d)}	0.18 ppm, 1-hour average > 0.030 ppm, annual average >	0.053 ppm, annual average
Sulfur Dioxide	0.04 ppm, 24-hour average > 0.25 ppm, 1-hour average >	0.03 ppm, annual average 0.14 ppm, 24-hour average
Lead	1.5 µg/m ³ , 30-day average ≥	1.5 µg/m ³ , calendar quarter
Sulfates	25 µg/m ³ , 24-hour average ≥	No Federal Standard

a) New 8-hour average state standard was established effective May 17, 2006.

b) U.S. EPA has strengthened the federal 24-hour PM_{2.5} standard from 65 µg/m³ to 35 µg/m³ effective December 17, 2006.

c) Due to a lack of evidence linking health problems to long-term exposure to coarse particle pollution, U.S. EPA has revoked the annual PM₁₀ standard effective December 17, 2006.

d) California ARB has amended the nitrogen dioxide state standard to lower the 1-hour standard from 0.25 ppm to 0.18 ppm and establish a new annual state standard of 0.030 ppm. These changes are expected to become effective later in 2007.



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

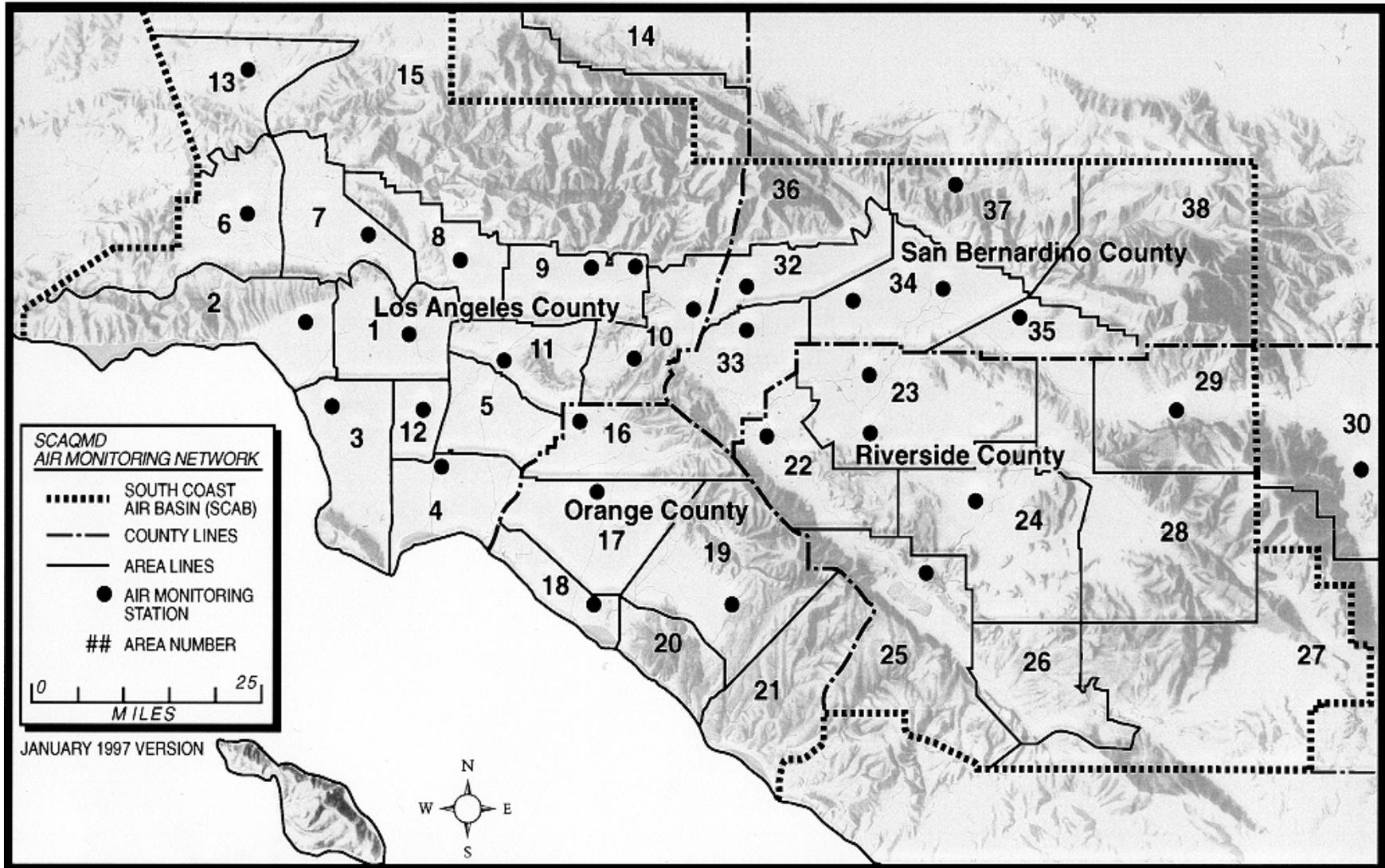


Figure 1
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
Air Basins and Monitoring Stations

**Table 2
January 2006
Exceedances of Standards and Maximum Concentrations**

No.	Location	Stn. No.	Ozone							Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide	
			<u>No. Days Exceeding</u>							<u>Days Exceeding</u>				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	2.63	3	0	0.08	0.001	0.01
2	Northwest Coastal LA County	91	0	0	0	0	0	0.05	0.040	0/0	0/0	1.86	3	0	0.07		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.06	0.045	0/0	0/0	1.70	3	0	0.07		
4	South Coastal LA County 1	72	0	0	0	0	0	0.04	0.038	0/0	0/0	2.57	4	0	0.06	0.008	0.02
4	South Coastal LA County 2	77															
6	West San Fernando Valley	74	0	0	0	0	0	0.04	0.040	0/0	0/0	2.57	4	0	0.05		
7	East San Fernando Valley	69	0	0	0	0	0	0.04	0.040	0/0	0/0	3.00	4	0	0.06	0.002	0.01
8	West San Gabriel Valley	88	0	0	0	0	0	0.05	0.043	0/0	0/0	2.75	4	0	0.07		
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.05	0.050	0/0	0/0	1.29	2	0	0.07		
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.05	0.050	0/0	0/0	1.13	2	0	0.06		
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.05	0.040	0/0	0/0	2.14	3	0	0.07		
11	South San Gabriel Valley	85	0	0	0	0	0	0.05	0.038	0/0	0/0	2.71	3	0	0.08		
12	South Central LA County	84	0	0	0	0	0	0.04	0.036	0/0	0/0	5.63	8	0	0.10		
13	Santa Clarita Valley	90	0	0	0	0	0	0.05	0.050	0/0	0/0	1.00	2	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.04	0.036	0/0	0/0	2.86	5	0	0.06		
17	Central Orange County	3176	0	0	0	0	0	0.05	0.040	0/0	0/0	2.25	5	0	0.06		
18	North Coastal Orange County	3195	0	0	0	0	0	0.05	0.043	0/0	0/0	2.29	3	0	0.06	0.003	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.06	0.048	0/0	0/0	1.00	2				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.05	0.042	0/0	0/0	1.71	3	0	0.06	0.001	0.00
23	Metropolitan Riverside County 2	4146															
23	Mira Loma	5214	0	0	0	0	0	0.05	0.042	0/0	0/0	2.60	8	0	0.05		
24	Perris Valley	4149	0	0	0	0	0	0.04	0.033								
25	Lake Elsinore	4158	0	0	0	0	0	0.06	0.046	0/0	0/0	1.00	1	0	0.05		
29	Banning Airport	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	0.045	0/0	0/0	0.88	2	0	0.05		
30	Coachella Valley 2**	4157	0	0	0	0	0	0.06	0.046								
SANBERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.05	0.050	0/0	0/0	1.38	3	0	0.07		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.05	0.048	0/0	0/0	1.71	3	0	0.07	0.001	0.00
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.05	0.046	0/0	0/0	1.63	3	0	0.08		
35	East San Bernardino Valley	5204	0	0	0	0	0	0.04	0.040								
37	Central San Bernardino Mountain	5181	0	0	0	0	0	0.05	0.047								
38	Big Bear Lake	5818															
District maximum			0	0	0	0	0	0.06	0.053	0/0	0/0	5.63	8	0	0.10	0.008	0.02

a) New 8-hour average state ozone standard of 0.07 ppm has been established effective May 17, 2006.

** Salton Sea Air Basin.

Table 2 (continued)
January 2006
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	PM10				Lead***		Sulfate		PM2.5			
			No. (%) Days Exceeding State Standard	Federal Standard	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 of Days Exceeding Federal Standard ^{b)}		Max 24-hour Average $\mu\text{g}/\text{m}^3$
											> 35 $\mu\text{g}/\text{m}^3$	> 65 $\mu\text{g}/\text{m}^3$		
LOS ANGELES COUNTY														
1	Central LA	87	0(0%)	0(0%)	5	43	5	0.01	5	4.6	30	3	0	38.9
2	Northwest Coastal LA County	91							5	4.2				
3	Southwest Coastal LA County	820	0(0%)	0(0%)	5	29								
4	South Coastal LA County 1	72	1(20%)	0(0%)	5	51	5	0.01	5	7.1	19	0	0	34.9
4	South Coastal LA County 2	77	3(60%)	0(0%)	5	90					30	0	0	30.9
6	West San Fernando Valley	74									7	0	0	32.0
7	East San Fernando Valley	69	1(20%)	0(0%)	5	54					9	1	0	37.2
8	West San Gabriel Valley	88							5	3.8	9	0	0	31.9
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	5	47			5	3.9	24	1	0	35.5
9	East San Gabriel Valley 2	591												
10	Pomona/Walnut Valley	75												
11	South San Gabriel Valley	85					4	0.01	4	5.2	10	0	0	33.0
12	South Central LA County	84					5	0.02	5	5.3	10	0	0	35.3
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	23								
ORANGE COUNTY														
16	North Orange County	3177												
17	Central Orange County	3176	0(0%)	0(0%)	5	43					31	0	0	31.9
18	North Coastal Orange County	3195												
19	Saddleback Valley	3812	0(0%)	0(0%)	4	25					10	0	0	21.6
RIVERSIDE COUNTY														
22	Norco/Corona	4155	1(20%)	0(0%)	5	52								
23	Metropolitan Riverside County 1	4144	6(55%)	0(0%)	11	72	4	0.01	4	2.8	20	2	0	52.0
23	Metropolitan Riverside County 2	4146					5	0.01	5	2.7	9	1	0	36.1
23	Mira Loma	5214									9	1	0	39.5
24	Perris Valley	4149	1(20%)	0(0%)	5	63								
25	Lake Elsinore	4158												
29	Banning Airport	4164	0(0%)	0(0%)	4	33								
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	24					9	0	0	12.0
30	Coachella Valley 2**	4157	4(40%)	0(0%)	10	64					8	0	0	19.1
SAN BERNARDINO COUNTY														
32	Northwest San Bernardino Valley	5175					5	0.01	5	2.9				
33	Southwest San Bernardino Valley	5817	1(17%)	0(0%)	6	62					8	0	0	32.5
34	Central San Bernardino Valley 1	5197	3(60%)	0(0%)	5	115			5	3.5	9	0	0	33.2
34	Central San Bernardino Valley 2	5203	3(60%)	0(0%)	5	56	5	0.01	5	2.6	8	0	0	33.9
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	49								
37	Central San Bernardino Mountain	5181	1(20%)	0(0%)	5	63								
38	Big Bear Lake	5818									5	0	0	21.8
District maximum			6	0		115		0.02		7.1		3	0	52.0

b) U.S. EPA has strengthened the 24-hour federal standard level for PM2.5 from 65 $\mu\text{g}/\text{m}^3$ to 35 $\mu\text{g}/\text{m}^3$, effective December 17, 2006.

** Salton Sea Air Basin

***Special monitoring of lead near stationary sources was carried out in January 2006 and the maximum monthly average was 0.13 $\mu\text{g}/\text{m}^3$ recorded in Southeast Los Angeles area.

Table 3
February 2006
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
			<u>No. Days Exceeding</u>						<u>Days Exceeding</u>				Days Exceeding State Std	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
			State Standard ^{a)}		Health Advisory	Federal Standard		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	0.05	0.045	0/0	0/0	2.50	3	0	0.10	0.002	0.01
2	Northwest Coastal LA County	91	0	0	0	0	0	0.07	0.05	0/0	0/0	1.57	2	0	0.06		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.07	0.054	0/0	0/0	1.70	2	0	0.08		
4	South Coastal LA County 1	72	0	0	0	0	0	0.06	0.041	0/0	0/0	3.43	4	0	0.07	0.004	0.02
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	2.14	3	0	0.06		
7	East San Fernando Valley	69	0	0	0	0	0	0.06	0.045	0/0	0/0	2.29	4	0	0.07	0.001	0.01
8	West San Gabriel Valley	88	0	0	0	0	0	0.07	0.046	0/0	0/0	2.13	3	0	0.09		
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.06	0.05	0/0	0/0	1.57	2	0	0.10		
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.07	0.053	0/0	0/0	1.75	2	0	0.09		
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.07	0.048	0/0	0/0	2.14	3	0	0.10		
11	South San Gabriel Valley	85															
12	South Central LA County	84	0	0	0	0	0	0.04	0.033	0/0	0/0	6.38	8	0	0.09		
13	Santa Clarita Valley	90	0	0	0	0	0	0.06	0.056	0/0	0/0	1.00	2	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.06	0.047	0/0	0/0	2.57	6	0	0.09		
17	Central Orange County	3176	0	0	0	0	0	0.06	0.048	0/0	0/0	3.00	4	0	0.09		
18	North Coastal Orange County	3195	0	0	0	0	0	0.07	0.06	0/0	0/0	2.43	4	0	0.08	0.004	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.07	0.056	0/0	0/0	1.00	2				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.07	0.055	0/0	0/0	2.00	3	0	0.08	0.001	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	2.13	4				
23	Mira Loma	5214	0	0	0	0	0	0.06	0.049	0/0	0/0	1.70	3	0	0.08		
24	Perris Valley	4149	0	0	0	0	0	0.04	0.038								
25	Lake Elsinore	4158	0	0	0	0	0	0.06	0.058	0/0	0/0	1.00	1	0	0.06		
29	Banning Airport	4164	0	0	0	0	0	0.07	0.06					0	0.07		
30	Coachella Valley 1**	4137	0	0	0	0	0	0.06	0.058	0/0	0/0	0.88	1	0	0.05		
30	Coachella Valley 2**	4157	0	0	0	0	0	0.07	0.056								
SAN BERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.07	0.051	0/0	0/0	1.75	3	0	0.09		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.06	0.05	0/0	0/0	2.00	2	0	0.08	0.001	0.01
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.06	0.052	0/0	0/0	1.88	3	0	0.07		
35	East San Bernardino Valley	5204	0	0	0	0	0	0.06	0.051								
37	Central San Bernardino Mountain	5181	0	0	0	0	0	0.06	0.06								
38	Big Bear Lake	5818															
District maximum			0	0	0	0	0	0.07	0.06	0/0	0/0	6.38	8	0	0.10	0.004	0.02

a) New 8-hour average state ozone standard of 0.07 ppm has been established effective May 17, 2006.

** Salton Sea Air Basin.

Table 3 (continued)
February 2006
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	PM10				Lead***		Sulfate		PM2.5			
			State Standard	Federal Standard	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 of Days Exceeding Federal Standard ^{b)}		Max 24-hour Average $\mu\text{g}/\text{m}^3$
											> 35 $\mu\text{g}/\text{m}^3$	>65 $\mu\text{g}/\text{m}^3$		
LOS ANGELES COUNTY														
1	Central LA	87	1(20%)	0(0%)	5	59	5	0.01	5	7.1	28	4	0	56.2
2	Northwest Coastal LA County	91							3	7.3				
3	Southwest Coastal LA County	820	0(0%)	0(0%)	3	23								
4	South Coastal LA County 1	72	1(20%)	0(0%)	5	51	5	0.01	5	7.8	24	4	0	58.5
4	South Coastal LA County 2	77	2(40%)	0(0%)	5	117					28	5	0	53.6
6	West San Fernando Valley	74									6	0	0	21.8
7	East San Fernando Valley	69	2(40%)	0(0%)	5	64					7	1	0	50.7
8	West San Gabriel Valley	88							5	7.6	10	1	0	45.9
9	East San Gabriel Valley 1	60	2(40%)	0(0%)	5	64			4	7.1	22	1	0	52.4
9	East San Gabriel Valley 2	591												
10	Pomona/Walnut Valley	75												
11	South San Gabriel Valley	85					5	0.01	5	8.0	10	3	0	58.9
12	South Central LA County	84					5	0.01	5	7.8	9	3	0	55.0
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	32								
ORANGE COUNTY														
16	North Orange County	3177												
17	Central Orange County	3176	1(20%)	0(0%)	5	61					26	6	0	56.2
18	North Coastal Orange County	3195												
19	Saddleback Valley	3812	1(20%)	0(0%)	5	57					10	1	0	47.0
RIVERSIDE COUNTY														
22	Norco/Corona	4155	2(40%)	0(0%)	5	66								
23	Metropolitan Riverside County 1	4144	6(60%)	0(0%)	10	99	5	0.01	5	6.9	25	5	0	60.8
23	Metropolitan Riverside County 2	4146					5	0.01	5	6.5	10	2	0	55.3
23	Mira Loma	5214									10	4	0	63.0
24	Perris Valley	4149	2(40%)	0(0%)	5	68								
25	Lake Elsinore	4158												
29	Banning Airport	4164	0(0%)	0(0%)	5	48								
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	30					10	0	0	11.4
30	Coachella Valley 2**	4157	5(50%)	0(0%)	10	78					10	0	0	18.2
SAN BERNARDINO COUNTY														
32	Northwest San Bernardino Valley	5175					5	0.01	5	6.2				
33	Southwest San Bernardino Valley	5817	2(40%)	0(0%)	5	78					10	3	0	53.7
34	Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	87			4	6.4	10	2	0	52.6
34	Central San Bernardino Valley 2	5203	2(40%)	0(0%)	5	83	2	0.02	2	4.2	7	2	0	38.2
35	East San Bernardino Valley	5204	2(40%)	0(0%)	5	60								
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	39								
38	Big Bear Lake	5818									5	0	0	22.9
District maximum			6	0		117		0.02		8.0		6	0	63.0

b) U.S. EPA has revised the 24-hour federal standard level for PM2.5 from 65 $\mu\text{g}/\text{m}^3$ to 35 $\mu\text{g}/\text{m}^3$, effective December 17, 2006.

** Salton Sea Air Basin

***Special monitoring of lead near stationary sources was carried out in February 2006 and the maximum monthly average was 0.12 $\mu\text{g}/\text{m}^3$ recorded in Central Los Angeles.