

Air Quality Standards Compliance Report (AQSCR)

Statistics for July/August 2005

Vol. 18, 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 Coachella Valley area of the Salton Sea Air Basin served by the District.

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July and August 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 in the Salton Sea Air Basin for the months of July and August. Table 1 (below) summarizes the maximum concentrations recorded and location of the maximum during July-August 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 July and August 2005 are summarized in Tables 2 and 3, respectively.

Current Revisions to Air Quality Standards

The 1-hour average federal ozone standard was revoked (replaced by the 8-hour average standard) effective June 15, 2005.

California Air Resources Board established a new 8-hour average California ozone standard of 0.070 ppm effective May 17, 2006.

U.S. EPA has strengthened the level of the 24-hour PM_{2.5} standard to 35 µg/m³ effective December 17, 2006, and has revoked the annual PM₁₀ standard. The 24-hour PM₁₀ standard is retained.

Table 1. Maximum Concentrations Reported in July/August 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	0.18	180%	144%	Central San Bernardino Mountains
8-Hour	> 0.07 ppm	> 0.08 ppm	0.143	191%	168%	Central San Bernardino Mountains
Carbon Monoxide						
8-Hour	> 9.0 ppm	> 9 ppm	1.57	17%	17%	South Central Los Angeles County
Nitrogen Dioxide						
1-Hour	> 0.25 ppm		0.11	42%		Central Los Angeles
Sulfur Dioxide						
1-Hour	> 0.25 ppm		0.07	27%		Central Los Angeles
24-Hour	> 0.04 ppm	> 0.14 ppm	0.011	27%	8%	Metropolitan Riverside County
Particulate (PM₁₀)						
24-Hour	> 50 µg/m ³	> 150 µg/m ³	108	212%	72%	Central San Bernardino Valley
Particulate (PM_{2.5})						
24-Hour		> 65 µg/m ³	132.7		203%	East San Gabriel Valley
Sulfates						
24-Hour	>= 25 µg/m ³		17.3	69%		South Central Los Angeles County
Lead*						
30-Day	>= 1.5 µg/m ³		0.02	1%		Several Locations
30-Day*			0.39	26%		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
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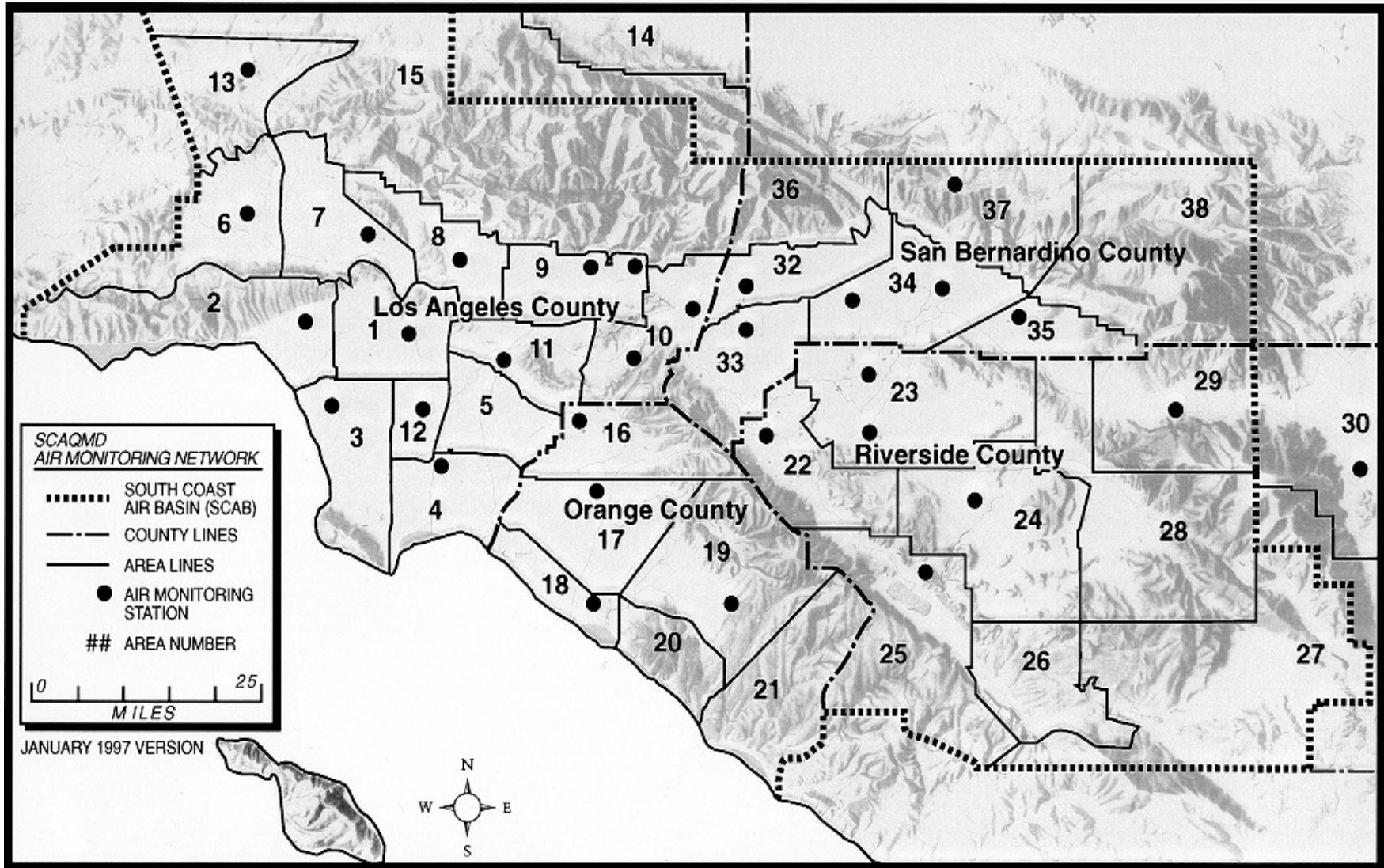


Figure 1
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
Air Basins and Monitoring Stations

Table 2
July 2005
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)} 1-hour	Health 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	0.08	0.067	0/0	0/0	1.40	2	0	0.11	0.004	0.07
2	Northwest Coastal LA County	91	0	0	0	0	0	0.09	0.067	0/0	0/0	0.71	1	0	0.05		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.07	0.063	0/0	0/0	0.69	1	0	0.04	0.010	0.01
4	South Coastal LA County 1	72	0	0	0	0	0	0.06	0.048	0/0	0/0	1.14	2	0	0.08	0.010	0.03
4	South Coastal LA County 2	77															
6	West San Fernando Valley	74	8	10	0	1	4	0.13	0.108	0/0	0/0	1.29	2	0	0.06		
7	East San Fernando Valley	69	3	5	0	0	0	0.11	0.081	0/0	0/0	1.00	1	0	0.08	0.010	0.01
8	West San Gabriel Valley	88	3	3	0	0	0	0.11	0.081	0/0	0/0	1.14	2	0	0.06		
9	East San Gabriel Valley 1	60	6	4	0	0	0	0.12	0.083	0/0	0/0	1.14	2	0	0.07		
9	East San Gabriel Valley 2	591	12	10	0	1	4	0.14	0.098	0/0	0/0	1.00	1	0	0.08		
10	Pomona/Walnut Valley	75	7	5	0	1	1	0.13	0.098	0/0	0/0	1.00	1	0	0.07		
11	South San Gabriel Valley	85															
12	South Central LA County	84	0	0	0	0	0	0.07	0.056	0/0	0/0	1.00	1	0	0.06		
13	Santa Clarita Valley	90	26	29	3	5	22	0.17	0.142	0/0	0/0	1.00	1	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.08	0.061	0/0	0/0	1.00	1	0	0.06		
17	Central Orange County	3176	0	0	0	0	0	0.07	0.065	0/0	0/0	1.00	1	0	0.04		
18	North Coastal Orange County	3195	0	0	0	0	0	0.06	0.057	0/0	0/0	0.10	0	0	0.03	0.002	0.01
19	Saddleback Valley	3812	0	0	0	0	0	0.09	0.070	0/0	0/0	0.43	1				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	12	21	0	2	8	0.13	0.107	0/0	0/0	1.29	2	0	0.05	0.011	0.02
23	Metropolitan Riverside County 2	4146															
24	Perris Valley	4149	6	8	0	1	3	0.13	0.105								
25	Lake Elsinore	4158	12	18	1	3	6	0.15	0.118	0/0	0/0	1.00	1	0	0.07		
29	Banning/San Gorgonio Pass	4164	20	24	0	6	15	0.14	0.132					0	0.06		
30	Coachella Valley 1**	4137	15	15	0	2	13	0.14	0.116	0/0	0/0	0.10	0	0	0.03		
30	Coachella Valley 2**	4157	6	11	0	0	7	0.11	0.096								
SAN BERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	13	13	0	3	4	0.14	0.112	0/0	0/0	1.43	2	0	0.08		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	17	17	1	3	10	0.15	0.115	0/0	0/0	1.40	2	0	0.09	0.001	0.01
34	Central San Bernardino Valley 2	5203	20	22	2	4	14	0.16	0.127	0/0	0/0	1.00	1	0	0.07		
35	East San Bernardino Valley	5204	18	21	1	4	13	0.15	0.123								
37	Central San Bernardino Mountain	5181	27	32	3	10	23	0.17	0.143								
38	Big Bear Lake	5818															
District maximum			27	32	3	10	23	0.17	0.143	0/0	0/0	1.43	2	0	0.11	0.011	0.07

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)
July 2005
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 $\mu\text{g}/\text{m}^3$
										> 65 $\mu\text{g}/\text{m}^3$	>35 $\mu\text{g}/\text{m}^3$			
LOS ANGELES COUNTY														
1	Central LA	87	0(0%)	0(0%)	5	40	4	0.02	4	14.0	30	0	2	50.4
2	Northwest Coastal LA County	91							5	11.2				
3	Southwest Coastal LA County	820	0(0%)	0(0%)	3	21								
4	South Coastal LA County 1	72	0(0%)	0(0%)	5	37	5	0.01	5	16.8	27	0	0	31.0
4	South Coastal LA County 2	77	0(0%)	0(0%)	5	27	5	0.01	5	15.6	30	0	0	32.7
6	West San Fernando Valley	74									10	0	0	21.6
7	East San Fernando Valley	69	0(0%)	0(0%)	5	48					10	0	0	26.5
8	West San Gabriel Valley	88							5	11.2	7	0	0	27.4
9	East San Gabriel Valley 1	60	1(33%)	0(0%)	3	59			5	10.2	30	1	2	132.7
9	East San Gabriel Valley 2	591												
10	Pomona/Walnut Valley	75												
11	South San Gabriel Valley	85												
12	South Central LA County	84					5	0.01	5	17.3	9	0	0	35.0
13	Santa Clarita Valley	90	1(20%)	0(0%)	5	55								
ORANGE COUNTY														
16	North Orange County	3177												
17	Central Orange County	3176	0(0%)	0(0%)	5	31					31	0	1	44.3
18	North Coastal Orange County	3195												
19	Saddleback Valley	3812	0(0%)	0(0%)	5	29					10	0	0	16.0
RIVERSIDE COUNTY														
22	Norco/Corona	4155	0(0%)	0(0%)	5	37								
23	Metropolitan Riverside County 1	4144	11(100%)	0(0%)	11	86	5	0.01	5	8.7	29	1	2	79.9
23	Metropolitan Riverside County 2	4146					5	0.01	5	9.3	10	0	0	31.7
24	Perris Valley	4149	1(20%)	0(0%)	5	56								
25	Lake Elsinore	4158												
29	Banning/San Gorgonio Pass	4164	1(25%)	0(0%)	4	51								
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	45					1	0	0	10.9
30	Coachella Valley 2**	4157	7(70%)	0(0%)	10	106					10	0	0	19.7
SAN BERNARDINO COUNTY														
32	Northwest San Bernardino Valley	5175					5	0.02	5	8.3				
33	Southwest San Bernardino Valley	5817	1(20%)	0(0%)	5	55					10	0	0	24.4
34	Central San Bernardino Valley 1	5197	3(75%)	0(0%)	4	108			5	8.5	10	0	0	28.0
34	Central San Bernardino Valley 2	5203	3(60%)	0(0%)	5	58	5	0.01	5	9.5	8	0	0	25.9
35	East San Bernardino Valley	5204	4(80%)	0(0%)	5	60								
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	49								
38	Big Bear Lake	5818									5	0	0	14.4
District maximum			11	0		108		0.02		17.3		1	2	132.7

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 July 2005 and the maximum monthly average was 0.39 $\mu\text{g}/\text{m}^3$ recorded in Southeast Los Angeles.

Table 3
August 2005
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)} 1-hour	Health 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	1	1	0	0	1	0.11	0.085	0/0	0/0	1.29	2	0	0.08	0.001	0.01
2	Northwest Coastal LA County	91	2	2	0	0	0	0.11	0.081	0/0	0/0	1.00	1	0	0.05		
3	Southwest Coastal LA County	820	0	0	0	0	0	0.08	0.070	0.0	0/0	0.69	1	0	0.04		
4	South Coastal LA County 1	72	0	0	0	0	0	0.08	0.061	0/0	0/0	0.75	1	0	0.06	0.004	0.02
4	South Coastal LA County 2	77															
6	West San Fernando Valley	74	9	10	0	1	5	0.14	0.112	0/0	0/0	1.00	1	0	0.05		
7	East San Fernando Valley	69	4	3	0	1	1	0.14	0.107	0/0	0/0	1.14	2	0	0.07	0.009	0.01
8	West San Gabriel Valley	88	5	4	0	1	2	0.14	0.101	0/0	0/0	1.29	2	0	0.06		
9	East San Gabriel Valley 1	60	6	5	0	2	3	0.14	0.106	0/0	0/0	1.00	1	0	0.07		
9	East San Gabriel Valley 2	591	9	8	1	4	5	0.16	0.118	0/0	0/0	1.14	2	0	0.06		
10	Pomona/Walnut Valley	75	9	6	0	1	5	0.13	0.105	0/0	0/0	1.43	3	0	0.07		
11	South San Gabriel Valley	85															
12	South Central LA County	84	0	0	0	0	0	0.08	0.057	0/0	0/0	1.57	2	0	0.08		
13	Santa Clarita Valley	90	19	16	1	4	13	0.15	0.117	0/0	0/0	1.00	2	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.09	0.066	0/0	0/0	1.00	1	0	0.06		
17	Central Orange County	3176	1	0	0	0	0	0.10	0.068	0/0	0/0	0.86	1	0	0.05		
18	North Coastal Orange County	3195	0	0	0	0	0	0.08	0.065	0/0	0/0	0.43	1	0	0.04	0.004	0.01
19	Saddleback Valley	3812	0	1	0	0	0	0.09	0.076	0/0	0/0	0.86	1				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	12	13	0	0	8	0.12	0.105	0/0	0/0	1.14	2	0	0.06	0.011	0.02
23	Metropolitan Riverside County 2	4146								0/0	0/0	1.25	2				
24	Perris Valley	4149	1	3	0	0	0	0.1	0.076								
25	Lake Elsinore	4158	8	9	0	0	2	0.11	0.097	0/0	0/0	0.57	1	0	0.05		
29	Banning/San Geronio Pass	4164	9	9	0	1	7	0.14	0.105					0	0.05		
30	Coachella Valley 1**	4137	6	12	0	0	3	0.11	0.097	0/0	0/0	0.71	1	0	0.08		
30	Coachella Valley 2**	4157	2	3	0	0	2	0.11	0.095								
SANBERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	10	7	2	2	5	0.15	0.122	0/0	0/0	1.14	2	0	0.08		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	9	9	0	3	6	0.14	0.117	0/0	0/0	1.29	2	0	0.10	0.001	0.01
34	Central San Bernardino Valley 2	5203	13	13	1	3	9	0.15	0.115	0/0	0/0	1.00	1	0	0.06		
35	East San Bernardino Valley	5204	9	10	0	1	5	0.13	0.106								
37	Central San Bernardino Mountain	5181	18	20	1	3	17	0.18	0.131								
38	Big Bear Lake	5818															
District maximum			19	20	2	4	17	0.18	0.131	0/0	0/0	1.57	3	0	0.10	0.011	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)
August 2005
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	PM10				Lead***		Sulfate		PM2.5			
			No. (%) Days Exceeding State Standard	No. (%) Days Exceeding 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 $\mu\text{g}/\text{m}^3$
											> 65 $\mu\text{g}/\text{m}^3$	>35 $\mu\text{g}/\text{m}^3$		
LOS ANGELES COUNTY														
1	Central LA	87	0(0%)	0(0%)	5	37	5	0.01	5	9.5	30	0	0	26.9
2	Northwest Coastal LA County	91							5	8.7				
3	Southwest Coastal LA County	820												
4	South Coastal LA County 1	72	0(0%)	0(0%)	5	30	5	0.01	5	4.5	31	0	0	29.7
4	South Coastal LA County 2	77												
6	West San Fernando Valley	74									8	0	0	20.0
7	East San Fernando Valley	69	0(0%)	0(0%)	5	48					10	0	0	24.1
8	West San Gabriel Valley	88							5	8.9	10	0	0	21.9
9	East San Gabriel Valley 1	60	4(67%)	0(0%)	6	64			5	9.9	31	0	0	27.4
9	East San Gabriel Valley 2	591												
10	Pomona/Walnut Valley	75												
11	South San Gabriel Valley	85												
12	South Central LA County	84					4	0.01	4	5.4	10	0	0	24.3
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	39								
ORANGE COUNTY														
16	North Orange County	3177												
17	Central Orange County	3176	0(0%)	0(0%)	5	31					31	0	0	21.0
18	North Coastal Orange County	3195												
19	Saddleback Valley	3812	0(0%)	0(0%)	3	25					10	0	0	21.7
RIVERSIDE COUNTY														
22	Norco/Corona	4155	0(0%)	0(0%)	5	45								
23	Metropolitan Riverside County 1	4144	10(100%)	0(0%)	10	79	5	0.01	5	8.7	31	0	1	36.3
23	Metropolitan Riverside County 2	4146					5	0.01	5	9.1	10	0	0	27.3
24	Perris Valley	4149	3(60%)	0(0%)	5	64								
25	Lake Elsinore	4158												
29	Banning/San Gorgonio Pass	4164	1(20%)	0(0%)	5	76								
30	Coachella Valley 1**	4137	1(20%)	0(0%)	5	66					3	0	0	13.8
30	Coachella Valley 2**	4157	3(30%)	0(0%)	10	77					8	0	0	14.3
SAN BERNARDINO COUNTY														
32	Northwest San Bernardino Valley	5175					5	0.02	5	8.4				
33	Southwest San Bernardino Valley	5817	2(40%)	0(0%)	5	57					9	0	0	21.6
34	Central San Bernardino Valley 1	5197	4(80%)	0(0%)	5	70			5	9.7	10	0	0	25.3
34	Central San Bernardino Valley 2	5203	4(80%)	0(0%)	5	72	5	0.02	5	9.7	10	0	0	33.1
35	East San Bernardino Valley	5204	3(60%)	0(0%)	5	61								
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	36								
38	Big Bear Lake	5818									5	0	0	10.5
District maximum			10	0		79		0.02		9.9		0	1	36.3

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 August 2005 and the maximum monthly average was 0.26 $\mu\text{g}/\text{m}^3$ recorded in Central Los Angeles.