

# Air Quality Standards Compliance Report (AQSCR)

Statistics for September-October 2010

Vol. 23, No. 5

## September and October 2010 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 September and October are shown and summarized in the following tables and figure.

Table 1 (below) summarizes the maximum concentrations recorded and location of the maximum during September and October 2010. Figure 1 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, and monthly air quality statistics for the South Coast Air Basin and the desert area of Coachella Valley monitoring areas for the months of September and October 2010 are summarized in Tables 2 and 3, respectively. 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.

*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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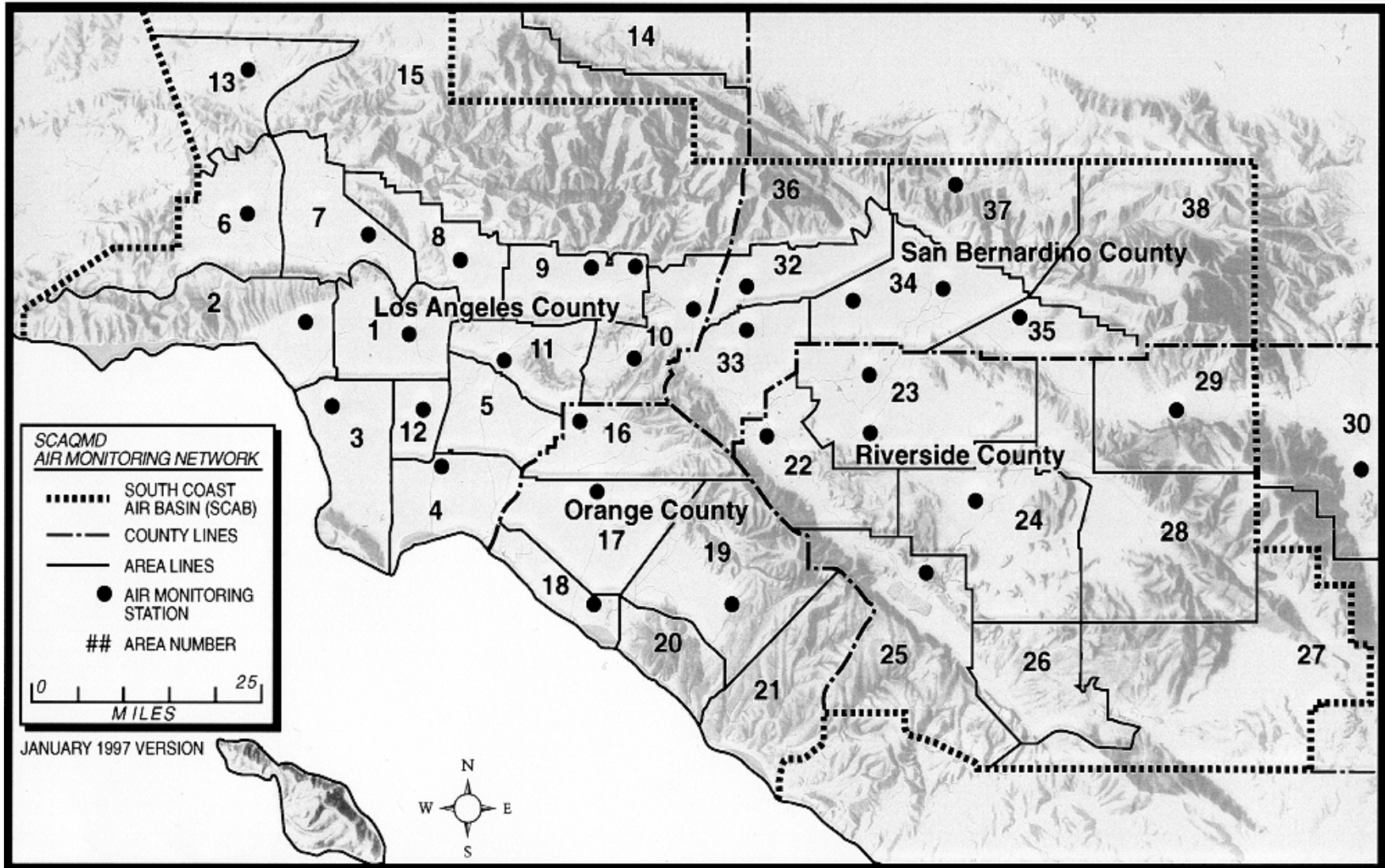
**Table 1**  
**Maximum Concentrations Reported in September/October 2010**  
**Compared to the Ambient Air Quality Standards**

Pollutant Averaging Time	Criteria Pollutants' 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	0.13	137%	104%	Several Locations
8-Hour	> 0.070 ppm	> 0.075 ppm	0.101	142%	133%	East San Gabriel Valley 2
<b>Particulate (PM2.5)</b>						
24-Hour		> 35 µg/m <sup>3</sup>	46.5		131%	Metropolitan Riverside County 1
<b>Particulate (PM10)</b>						
24-Hour	> 50 µg/m <sup>3</sup>	> 150 µg/m <sup>3</sup>	76	149%	50%	Mira Loma
<b>Carbon Monoxide</b>						
8-Hour	> 9.0 ppm	> 9 ppm	2.71	30%	29%	South Central LA County
<b>Nitrogen Dioxide</b>						
1-Hour	> 0.18 ppm	>0.100 ppm	0.092	50%	88%	South Coastal LA County 1
<b>Sulfur Dioxide</b>						
1-Hour	> 0.25 ppm	> 0.075 ppm	0.019	7%	25%	South Coastal LA County 1
<b>Sulfates</b>						
24-Hour	>= 25 µg/m <sup>3</sup>		9	36%		South Coastal LA County 2
<b>Lead*</b>						
30-Day*	>= 1.5 µg/m <sup>3</sup>		0.02	1.3%		Several Locations

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



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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**  
**September 2010**  
**Exceedances of Standards and Maximum Concentrations**

Source/ Receptor No.	Location	Station No.	Ozone						Carbon Monoxide		Nitrogen Dioxide		Sulfur Dioxide			
			No. Days Exceeding						Days Exceeding State/ Federal Standard	Max 8-hour ppm	Days Exceeding State/ Federal Standard <sup>a)</sup>	Max 1-hour ppm	Days Exceeding State/ Federal Standard <sup>b)</sup>	Max 1-hour ppm	Max 24-hour ppm	
			State Standard		Health Advisory		Federal Standard									
1-hour > 0.09 ppm	8-hour > 0.070 ppm	1-hour ≥ 0.15 ppm	1-hour > 0.124 ppm	8-hour > 0.075 ppm	Max 1-hour ppm	Max 8-hour ppm										
<b>LOS ANGELES COUNTY</b>																
1	Central LA	87	1	1	0	0	1	0.10	0.081	0/0	1.86	0/0	0.078	0/0	0.005	0.000
2	Northwest Coastal LA County	91	1	2	0	0	1	0.10	0.078	0/0	1.33	0/0	0.062	0/0		
3	Southwest Coastal LA County	820	0	1	0	0	0	0.09	0.071	0/0	1.00	0/0	0.076	0/0	0.012	0.000
4	South Coastal LA County 1	72	1	1	0	0	1	0.10	0.085	0/0	1.29	0/0	0.092	0/0	0.019	0.003
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	4	10	0	0	7	0.12	0.086	0/0	1.14	0/0	0.064	0/0		0.000
7	East San Fernando Valley	69	2	3	0	0	3	0.11	0.080	0/0	1.00	0/0	0.069	0/0	0.003	0.000
8	West San Gabriel Valley	88	1	3	0	0	2	0.10	0.082	0/0	1.00	0/0	0.071			
9	East San Gabriel Valley 1	60	3	3	0	0	2	0.10	0.081	0/0	1.00	0/0	0.060			
9	East San Gabriel Valley 2	591	6	9	0	0	5	0.12	0.101	0/0	1.00	0/0	0.058			
10	Pomona/Walnut Valley	75	3	3	0	0	1	0.11	0.081	0/0	1.14	0/0	0.074			
11	South San Gabriel Valley	85	1	1	0	0	1	0.11	0.086	0/0	1.14	0/0	0.071			
12	South Central LA County	112	0	0	0	0	0	0.07	0.047	0/0	2.71	0/0	0.077			
13	Santa Clarita Valley	90	1	4	0	0	2	0.10	0.080	0/0	0.43	0/0	0.053			
<b>ORANGE COUNTY</b>																
16	North Orange County	3177	2	3	0	0	2	0.12	0.097	0/0	1.29	0/0				
17	Central Orange County	3176	1	1	0	0	1	0.10	0.087	0/0	1.14	0/0	0.069			
18	North Coastal Orange County	3195	1	2	0	0	1	0.10	0.077	0/0	1.00	0/0	0.057	0/0	0.010	0.000
19	Saddleback Valley	3812	1	2	0	0	1	0.12	0.082	0/0	1.00			0/0		0.000
<b>RIVERSIDE COUNTY</b>																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	8	13	0	1	10	0.13	0.092	0/0	1.29	0/0	0.058	0/0	0.018	0.000
23	Metropolitan Riverside County 2	4146						0.00	0.000	0/0	1.14	0/0	0.061			
23	Mira Loma	4165	6	11	0	0	10	0.12	0.093	0/0	1.14	0/0	0.050			
24	Perris Valley	4149	8	13	0	0	6	0.11	0.090							
25	Lake Elsinore	4158	4	10	0	0	6	0.11	0.086	0/0	0.57	0/0	0.046			
29	Banning Airport	4164	4	9	0	0	7	0.10	0.085			0/0	0.057			
30	Coachella Valley 1**	4137	0	6	0	0	3	0.09	0.076	0/0	0.00	0/0	0.036			
30	Coachella Valley 2**	4157	0	2	0	0	0	0.08	0.073							
<b>SAN BERNARDINO COUNTY</b>																
32	Northwest San Bernardino Valley	5175	7	10	0	1	9	0.13	0.091	0/0	1.14	0/0	0.062			
33	Southwest San Bernardino Valley	5817						0.00	0.000							
34	Central San Bernardino Valley 1	5197	6	10	0	1	8	0.13	0.082	0/0	1.00	0/0	0.070	0/0	0.003	0.000
34	Central San Bernardino Valley 2	5203	6	11	0	0	10	0.12	0.086	0/0	1.00	0/0	0.064	0/0		0.000
35	East San Bernardino Valley	5204	6	13	0	0	11	0.11	0.087							
37	Central San Bernardino Mountains	5181	2	10	0	0	7	0.11	0.088							
38	East San Bernardino Mountains	5818						0.00	0.000							
<b>District Maximum</b>			8	13	0	1	11	0.13	0.101	0/0	2.71	0/0	0.092	0/0	0.019	0.003

\*\* Salton Sea Air Basin.

a) U.S. EPA has established a new 1-hour NO2 standard of 100 ppb, effective April 12, 2010.

b) U.S. EPA has established a new 1-hour SO2 standard of 75 ppb, effective August 23, 2010.

Table 2 (continued)

September 2010

## Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.	Location	Station No.	PM10				PM2.5			Lead*		PM10 Sulfate	
			No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average µg/m3	Number Days Sampled	Days Exceeding Federal Standard > 35 µg/m3	Max 24-hour Average µg/m3	Number Days Sampled	Monthly Average* µg/m3	Number Days Sampled	Max 24-hour Average µg/m3
			State Standard	Federal Standard									
<b>LOS ANGELES COUNTY</b>													
1	Central LA	87	0(0%)	0(0%)	5	31	25	0	20.9	5	0.02	5	7.6
2	Northwest Coastal LA County	91											
3	Southwest Coastal LA County	820	0(0%)	0(0%)	5	22				5	0.00	5	8.6
4	South Coastal LA County 1	72	0(0%)	0(0%)	5	28	30	0	14.3	5	0.01	5	7.9
4	South Coastal LA County 2	77	0(0%)	0(0%)	4	34	29	0	20.3	5	0.01	5	9.0
6	West San Fernando Valley	74					9	0	13.6				
7	East San Fernando Valley	69	0(0%)	0(0%)	5	38	27	0	22.4				
8	West San Gabriel Valley	88					9	0	14.9			5	6.0
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	5	47	4	0	15.9			5	7.9
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					9	0	17.1	5	0.02	5	7.8
12	South Central LA County	112					10	0	17.3				
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	38							
<b>ORANGE COUNTY</b>													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	3	28	28	0	22.2				
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	24	10	0	12.2				
<b>RIVERSIDE COUNTY</b>													
22	Norco/Corona	4155	0(0%)	0(0%)	5	42							
23	Metropolitan Riverside County 1	4144	2(20%)	0(0%)	10	59	29	0	26.1	5	0.01	5	5.9
23	Metropolitan Riverside County 2	4146					10	0	14.7	5	0.01	5	5.3
23	Mira Loma	4165	5(100%)	0(0%)	5	76	24	0	25.1				
24	Perris Valley	4149	0(0%)	0(0%)	5	39							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	5	32							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	23	9	0	7.7				
30	Coachella Valley 2**	4157	0(0%)	0(0%)	10	40	9	0	8.1				
<b>SANBERNARDINO COUNTY</b>													
32	Northwest San Bernardino Valley	5175								5	0.01	5	6.2
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	5	50	9	0	17.1				
34	Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	54	9	0	16.6			5	6.7
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	48	10	0	15.3	5	0.01	5	5.3
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	37							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	4	29							
38	East San Bernardino Mountains	5818					5	0	6.4				
<b>District Maximum</b>			5	0		76		0	26.1		0.02		9.0

\*Higher lead concentrations were recorded at special monitoring sites immediately adjacent to the lead sources.

\*\*Salton Sea Air Basin.

**Table 3**  
**October 2010**  
**Exceedances of Standards and Maximum Concentrations**

Source/ Receptor No.	Location	Station No.	Ozone						Carbon Monoxide		Nitrogen Dioxide		Sulfur Dioxide			
			No. Days Exceeding						Days Exceeding State/ Federal Standard	Max 8-hour ppm	Days Exceeding State/ Federal Standard <sup>a)</sup>	Max 1-hour ppm	Days Exceeding State/ Federal Standard <sup>b)</sup>	Max 1-hour ppm	Max 24-hour ppm	
			State Standard		Health Advisory		Federal Standard									
1-hour > 0.09 ppm	8-hour > 0.070 ppm	1-hour ≥ 0.15 ppm	1-hour > 0.124 ppm	8-hour > 0.075 ppm	Max 1-hour ppm	Max 8-hour ppm										
<b>LOS ANGELES COUNTY</b>																
1	Central LA	87	0	0	0	0	0	0.08	0.058	0/0	1.13	0/0	0.061	0/0	0.005	0.000
2	Northwest Coastal LA County	91	0	0	0	0	0	0.09	0.065	0/0	1.00	0/0	0.053	0/0		0.000
3	Southwest Coastal LA County	820	0	0	0	0	0	0.06	0.057	0/0	1.00	0/0	0.057	0/0	0.004	0.000
4	South Coastal LA County 1	72	0	0	0	0	0	0.07	0.061	0/0	1.43	0/0	0.054	0/0	0.014	0.001
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	0	1	0	0	0	0.08	0.072	0/0	1.29	0/0	0.048			
7	East San Fernando Valley	69	0	1	0	0	0	0.09	0.072	0/0	1.57	0/0	0.062	0/0	0.004	0.000
8	West San Gabriel Valley	88	0	0	0	0	0	0.08	0.070	0/0	1.14	0/0	0.059			
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.08	0.066	0/0	1.00	0/0	0.055			
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.09	0.070	0/0	1.00	0/0	0.047			
10	Pomona/Walnut Valley	75	3	0	0	0	0	0.11	0.070	0/0	1.00	0/0	0.069			
11	South San Gabriel Valley	85	0	0	0	0	0	0.07	0.062	0/0	1.00	0/0	0.055			
12	South Central LA County	112	0	0	0	0	0	0.08	0.062	0/0	2.57	0/0	0.062			
13	Santa Clarita Valley	90	0	0	0	0	0	0.08	0.061	0/0	1.00	0/0	0.055			
<b>ORANGE COUNTY</b>																
16	North Orange County	3177	0	1	0	0	0	0.09	0.075	0/0	1.57	0/0	0.048			
17	Central Orange County	3176	0	0	0	0	0	0.08	0.067	0/0	1.00	0/0	0.056			
18	North Coastal Orange County	3195	0	0	0	0	0	0.07	0.060	0/0	1.29	0/0	0.049	0/0	0.005	0.001
19	Saddleback Valley	3812	0	0	0	0	0	0.08	0.068	0/0	0.43					
<b>RIVERSIDE COUNTY</b>																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	0	1	0	0	0	0.09	0.073	0/0	1.29	0/0	0.048	0/0	0.004	0.000
23	Metropolitan Riverside County 2	4146						0.00	0.000	0/0	1.00	0/0	0.051			
23	Mira Loma	4165	0	1	0	0	0	0.09	0.075	0/0	1.00	0/0	0.048			
24	Perris Valley	4149	0	0	0	0	0	0.09	0.067			0/0				
25	Lake Elsinore	4158	0	0	0	0	0	0.07	0.063	0/0	0.43	0/0	0.041			
29	Banning Airport	4164	0	0	0	0	0	0.07	0.058			0/0	0.056			
30	Coachella Valley 1**	4137	0	0	0	0	0	0.07	0.065	0/0	0.29	0/0	0.035			
30	Coachella Valley 2**	4157	0	0	0	0	0	0.06	0.057			0/0				
<b>SAN BERNARDINO COUNTY</b>																
32	Northwest San Bernardino Valley	5175	0	1	0	0	0	0.09	0.072	0/0	1.00	0/0	0.051			
33	Southwest San Bernardino Valley	5817						0.00	0.000			0/0				
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.09	0.068	0/0	1.00	0/0	0.059	0/0	0.005	0.000
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.08	0.061	0/0	1.00	0/0	0.056			
35	East San Bernardino Valley	5204	0	0	0	0	0	0.08	0.065							
37	Central San Bernardino Mountains	5181	0	0	0	0	0	0.08	0.065							
38	East San Bernardino Mountains	5818						0.00	0.000							
<b>District Maximum</b>			3	1	0	0	0	0.11	0.075	0/0	2.57	0/0	0.069	0/0	0.014	0.001

\*\* Salton Sea Air Basin.

a) U.S. EPA has established a new 1-hour NO2 standard of 100 ppb, effective April 12, 2010.

b) U.S. EPA has established a new 1-hour SO2 standard of 75 ppb, effective August 23, 2010.

Table 3 (continued)

October 2010

## Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.	Location	Station No.	PM10				PM2.5			Lead*		PM10 Sulfate	
			No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average µg/m3	Number Days Sampled	Days Exceeding Federal Standard > 35 µg/m3	Max 24-hour Average µg/m3	Number Days Sampled	Monthly Average* µg/m3	Number Days Sampled	Max 24-hour Average µg/m3
			State Standard	Federal Standard									
<b>LOS ANGELES COUNTY</b>													
1	Central LA	87	0(0%)	0(0%)	4	32	27	1	39.2	5	0.01	5	4.6
2	Northwest Coastal LA County	91											
3	Southwest Coastal LA County	820	0(0%)	0(0%)	5	26				5	0.00	5	4.0
4	South Coastal LA County 1	72	0(0%)	0(0%)	5	22	29	0	18.5	5	0.01	5	6.2
4	South Coastal LA County 2	77	0(0%)	0(0%)	5	33	31	0	18.1	4	0.01	4	8.1
6	West San Fernando Valley	74					10	0	30.4				
7	East San Fernando Valley	69	0(0%)	0(0%)	5	39	29	3	43.7				
8	West San Gabriel Valley	88					8	1	35.2			5	4.0
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	5	40	7	1	35.4			4	4.4
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					9	0	29.4	5	0.01	5	5.9
12	South Central LA County	112					9	0	23.9				
13	Santa Clarita Valley	90	0(0%)	0(0%)	4	25							
<b>ORANGE COUNTY</b>													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	5	28	23	0	21.5				
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	20	8	0	12.4				
<b>RIVERSIDE COUNTY</b>													
22	Norco/Corona	4155	0(0%)	0(0%)	5	40							
23	Metropolitan Riverside County 1	4144	0(0%)	0(0%)	10	47	30	1	46.5	4	0.00	4	3.1
23	Metropolitan Riverside County 2	4146					9	0	25.0	5	0.01	5	4.4
23	Mira Loma	4165	1(20%)	0(0%)	5	62	31	1	40.1				
24	Perris Valley	4149	0(0%)	0(0%)	5	32							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	5	22							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	15	9	0	6.9				
30	Coachella Valley 2**	4157	0(0%)	0(0%)	9	32	7	0	6.9				
<b>SANBERNARDINO COUNTY</b>													
32	Northwest San Bernardino Valley	5175								5	0.01	5	4.2
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	5	35	10	0	29.1				
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	5	37	9	0	30.8			5	5.2
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	39	10	0	29.7	5	0.01	5	4.7
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	25							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	3	18							
38	East San Bernardino Mountains	5818					4	0	12.4				
<b>District Maximum</b>			1	0		62		3	46.5		0.01		8.1

\*Higher lead concentrations were recorded at special monitoring sites immediately adjacent to the lead sources.

\*\*Salton Sea Air Basin.