

Air Quality Standards Compliance Report (AQSCR)

Statistics for May-June 2010

Vol. 23, No. 3

May and June 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 May and June are shown and summarized in the following tables and figure.

Table 1 (below) summarizes the maximum concentrations recorded and location of the maximum during May and June 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 May and June 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 May/June 2010
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	0.14	147%	112%	Central San Bernardino Mountains
8-Hour	> 0.070 ppm	> 0.075 ppm	0.121	170%	159%	Central San Bernardino Mountains
Particulate (PM2.5)						
24-Hour		> 35 µg/m ³	54.2		153%	Mira Loma
Particulate (PM10)						
24-Hour	> 50 µg/m ³	> 150 µg/m ³	90	176%	60%	Coachella Valley 2
Carbon Monoxide						
8-Hour	> 9.0 ppm	> 9 ppm	2.83	31%	30%	Central San Bernardino Valley 1
Nitrogen Dioxide						
1-Hour	> 0.18 ppm	>0.100 ppm	0.093	50%	89%	South Coastal LA County 1
Sulfur Dioxide						
1-Hour	> 0.25 ppm	> 0.075 ppm	0.008	3%	11%	Southwest Coastal LA County
Sulfates						
24-Hour	>= 25 µg/m ³		9.9	40%		South San Gabriel Valley
Lead*						
30-Day*	>= 1.5 µg/m ³		0.04	2.7%		South San Gabriel Valley

*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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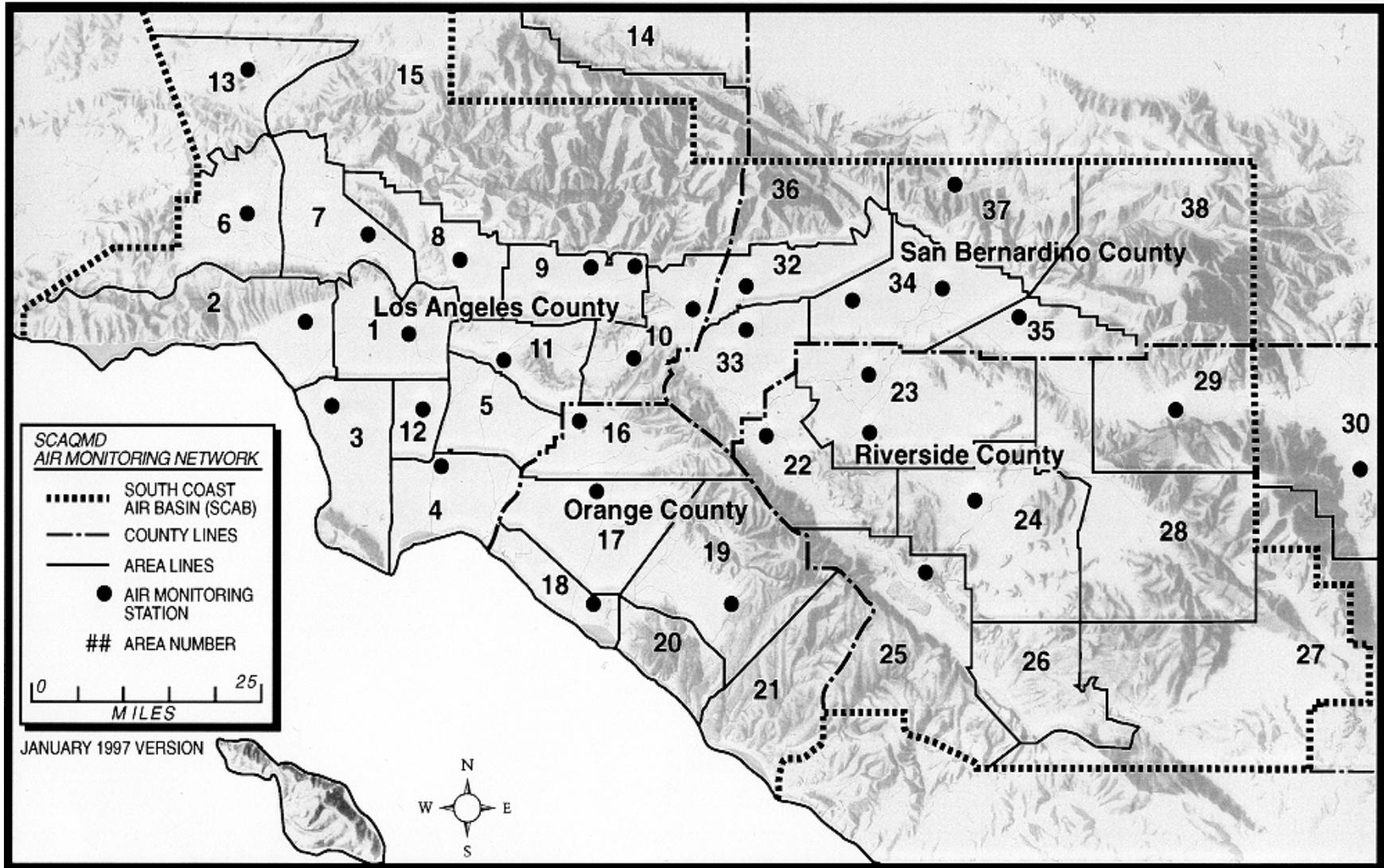


Figure 1
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
Air Basins and Monitoring Stations

Table 2
May 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 ^{a)}	Max 1-hour ppm	Days Exceeding State/ Federal Standard ^{b)}	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							
LOS ANGELES COUNTY																
1	Central LA	87	0	0	0	0	0	0.08	0.063	0/0	1.00	0/0	0.054	0/0	0.004	0.000
2	Northwest Coastal LA County	91	0	0	0	0	0	0.07	0.063	0/0	0.86	0/0	0.050			
3	Southwest Coastal LA County	820	0	0	0	0	0	0.06	0.053	0/0	1.00	0/0	0.044	0/0	0.008	0.001
4	South Coastal LA County 1	72	0	0	0	0	0	0.07	0.058	0/0	0.88	0/0	0.093	0/0	0.007	0.001
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	0	5	0	0	0	0.08	0.073	0/0	0.71	0/0	0.041			
7	East San Fernando Valley	69	0	2	0	0	1	0.08	0.076	0/0	0.88	0/0	0.051	0/0	0.003	0.000
8	West San Gabriel Valley	88	0	1	0	0	0	0.09	0.071	0/0	1.00	0/0	0.041			
9	East San Gabriel Valley 1	60	0	1	0	0	0	0.09	0.073	0/0	0.57	0/0	0.044			
9	East San Gabriel Valley 2	591	1	6	0	0	2	0.10	0.081	0/0	1.00	0/0	0.031			
10	Pomona/Walnut Valley	75	0	1	0	0	0	0.08	0.072	0/0	1.00	0/0	0.052			
11	South San Gabriel Valley	85	0	0	0	0	0	0.06	0.057	0/0	0.71	0/0	0.045			
12	South Central LA County	112	0	0	0	0	0	0.05	0.042	0/0	1.14	0/0	0.041			
13	Santa Clarita Valley	90	0	3	0	0	1	0.09	0.078	0/0	0.17	0/0	0.042			
ORANGE COUNTY																
16	North Orange County	3177	0	0	0	0	0	0.08	0.070	0/0	0.86	0/0	0.040			
17	Central Orange County	3176	0	0	0	0	0	0.08	0.066	0/0	0.57	0/0	0.030			
18	North Coastal Orange County	3195	0	0	0	0	0	0.07	0.063	0/0	0.17	0/0	0.026	0/0	0.003	0.001
19	Saddleback Valley	3812	0	2	0	0	1	0.09	0.080	0/0	0.29					
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	0	8	0	0	5	0.09	0.086	0/0	0.43	0/0	0.044	0/0	0.006	0.000
23	Metropolitan Riverside County 2	4146								0/0	0.57	0/0	0.045			
23	Mira Loma	4165	0	6	0	0	4	0.09	0.082	0/0	1.00	0/0	0.040			
24	Perris Valley	4149	0	6	0	0	3	0.09	0.083							
25	Lake Elsinore	4158	0	3	0	0	0	0.08	0.072	0/0	0.14	0/0	0.030			
29	Banning Airport	4164	0	8	0	0	4	0.09	0.083			0/0	0.041			
30	Coachella Valley 1**	4137	0	9	0	0	4	0.09	0.082	0/0	0.00	0/0	0.024			
30	Coachella Valley 2**	4157	0	8	0	0	4	0.08	0.080							
SANBERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	1	7	0	0	2	0.10	0.081	0/0	0.57	0/0	0.048			
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	0	6	0	0	1	0.09	0.081	0/0	2.83	0/0	0.050	0/0	0.002	0.000
34	Central San Bernardino Valley 2	5203	0	5	0	0	2	0.09	0.082	0/0	0.29	0/0	0.040			
35	East San Bernardino Valley	5204	2	8	0	0	5	0.10	0.083							
37	Central San Bernardino Mountains	5181	3	11	0	0	6	0.10	0.090							
38	East San Bernardino Mountains	5818														
District Maximum			3	11	0	0	6	0.10	0.090	0/0	2.83	0/0	0.093	0/0	0.008	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 2 (continued)

May 2010

Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.	Location	Station No.	PM10				PM2.5			Lead*		Sulfate	
			No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average µg/m3	Number Days Sampled	Number of 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									
LOS ANGELES COUNTY													
1	Central LA	87	0(0%)	0(0%)	23	40	142	1	37.5	26	0.01	26	9.8
2	Northwest Coastal LA County	91											
3	Southwest Coastal LA County	820	0(0%)	0(0%)	22	34				18	0.01	18	7.7
4	South Coastal LA County 1	72	0(0%)	0(0%)	22	44	131	0	29.8	27	0.01	27	8.7
4	South Coastal LA County 2	77	2(8%)	0(0%)	24	76	142	0	30.9	26	0.01	26	9.3
6	West San Fernando Valley	74					39	0	22.4				
7	East San Fernando Valley	69	0(0%)	0(0%)	25	43	128	0	31.8				
8	West San Gabriel Valley	88					44	0	24.0			25	8.8
9	East San Gabriel Valley 1	60	1(5%)	0(0%)	20	55	37	1	44.4			25	7.8
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					49	0	32.0	26	0.04	26	9.9
12	South Central LA County	112					44	0	31.8				
13	Santa Clarita Valley	90	0(0%)	0(0%)	24	40							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	24	43	143	0	30.3				
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	22	30	49	0	19.9				
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	25	49							
23	Metropolitan Riverside County 1	4144	1(2%)	0(0%)	51	57	147	0	33.5	26	0.01	26	7.3
23	Metropolitan Riverside County 2	4146					45	0	23.8	26	0.01	26	6.8
23	Mira Loma	4165	5(20%)	0(0%)	25	89	138	5	54.2				
24	Perris Valley	4149	0(0%)	0(0%)	25	37							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	25	38							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	25	37	44	0	12.7				
30	Coachella Valley 2**	4157	1(2%)	0(0%)	50	90	47	0	10.1				
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175								26	0.01	26	6.8
33	Southwest San Bernardino Valley	5817	1(4%)	0(0%)	24	51	46	0	30.3				
34	Central San Bernardino Valley 1	5197	1(4%)	0(0%)	23	56	47	0	27.7			25	6.7
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	25	48	47	0	23.5	26	0.01	26	7.1
35	East San Bernardino Valley	5204	0(0%)	0(0%)	24	45							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	24	36							
38	East San Bernardino Mountains	5818					18	1	35.4				
District Maximum			5	0		90		5	54.2		0.04		9.9

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

**Salton Sea Air Basin.

Table 3
June 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 ^{a)}	Max 1-hour ppm	Days Exceeding State/ Federal Standard ^{b)}	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										
LOS ANGELES COUNTY																
1	Central LA	87	0	0	0	0	0	0.07	0.066	0/0	1.00	0	0.044	0/0	0.007	0.000
2	Northwest Coastal LA County	91	0	0	0	0	0	0.07	0.062	0/0	0.29	0	0.031			
3	Southwest Coastal LA County	820	0	0	0	0	0	0.07	0.060	0/0	0.00	0	0.035	0/0	0.004	0.000
4	South Coastal LA County 1	72	0	0	0	0	0	0.06	0.047	0/0	0.17	0	0.042	0/0	0.005	0.000
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	1	9	0	0	8	0.10	0.088	0/0	0.71	0	0.035			
7	East San Fernando Valley	69	1	2	0	0	1	0.10	0.085	0/0	0.43	0	0.044	0/0	0.002	0.000
8	West San Gabriel Valley	88	0	1	0	0	1	0.09	0.076	0/0	1.00	0	0.040			
9	East San Gabriel Valley 1	60	1	2	0	0	1	0.10	0.076	0/0	1.00	0	0.037			
9	East San Gabriel Valley 2	591	3	13	0	0	4	0.12	0.095	0/0	1.00	0	0.036			
10	Pomona/Walnut Valley	75	1	4	0	0	2	0.10	0.082	0/0	1.00	0	0.045			
11	South San Gabriel Valley	85	0	0	0	0	0	0.07	0.057	0/0	0.14	0	0.040			
12	South Central LA County	112	0	0	0	0	0	0.05	0.041	0/0	1.00	0	0.024			
13	Santa Clarita Valley	90	6	11	0	1	8	0.13	0.105	0/0	0.00	0	0.040			
ORANGE COUNTY																
16	North Orange County	3177	0	0	0	0	0	0.08	0.063	0/0	0.29	0	0.030			
17	Central Orange County	3176	0	0	0	0	0	0.06	0.057	0/0	0.57	0	0.024			
18	North Coastal Orange County	3195	0	0	0	0	0	0.06	0.053	0/0	0.00	0	0.018	0/0	0.005	0.000
19	Saddleback Valley	3812	0	0	0	0	0	0.08	0.068	0/0	0.00					
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	8	16	0	0	13	0.12	0.098	0/0	0.43	0	0.034	0/0	0.003	0.000
23	Metropolitan Riverside County 2	4146								0/0	0.43	0	0.036			
23	Mira Loma	4165	4	15	0	0	11	0.11	0.091	0/0	0.29	0	0.024			
24	Perris Valley	4149	10	19	0	0	14	0.12	0.107							
25	Lake Elsinore	4158	4	8	0	0	6	0.11	0.088	0/0	0.00	0	0.030			
29	Banning Airport	4164	10	17	0	0	16	0.12	0.098			0	0.047			
30	Coachella Valley 1**	4137	10	20	0	0	16	0.11	0.095	0/0	0.13	0	0.030			
30	Coachella Valley 2**	4157	5	18	0	0	13	0.10	0.090							
SANBERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	8	15	0	0	10	0.12	0.095	0/0	1.00	0	0.043			
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	9	14	0	0	11	0.12	0.102	0/0	0.67	0	0.060	0/0	0.002	0.000
34	Central San Bernardino Valley 2	5203	9	16	0	1	11	0.13	0.105	0/0	0.00	0	0.050			
35	East San Bernardino Valley	5204	11	18	0	1	15	0.13	0.112							
37	Central San Bernardino Mountains	5181	12	23	0	1	20	0.14	0.121							
38	East San Bernardino Mountains	5818														
District Maximum			12	23	0	1	20	0.14	0.121	0/0	1.00	0	0.060	0/0	0.007	0.000

** 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)

June 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									
LOS ANGELES COUNTY													
1	Central LA	87	0(0%)	0(0%)	5	33	27	0	25.6	5	0.01	5	7.6
2	Northwest Coastal LA County	91											
3	Southwest Coastal LA County	820	0(0%)	0(0%)	3	30							
4	South Coastal LA County 1	72	0(0%)	0(0%)	5	30	30	0	14	5	0.01	5	9
4	South Coastal LA County 2	77	0(0%)	0(0%)	5	38	30	0	16.7	5	0.01	5	9.6
6	West San Fernando Valley	74					7	0	16.3				
7	East San Fernando Valley	69	0(0%)	0(0%)	4	50	28	0	22.4				
8	West San Gabriel Valley	88					10	0	16			5	7.2
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	5	42	10	0	17.2			4	7.4
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					9	0	14.7	4	0.01	4	7.1
12	South Central LA County	112					10	0	15.6				
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	36							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	4	34	28	0	14.8				
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	31	10	0	12.5				
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	5	37							
23	Metropolitan Riverside County 1	4144	1(10%)	0(0%)	10	52	30	0	24	5	0.01	5	6.3
23	Metropolitan Riverside County 2	4146					10	0	17.7	5	0.01	5	5.5
23	Mira Loma	4165	4(80%)	0(0%)	5	60	26	0	29.3				
24	Perris Valley	4149	0(0%)	0(0%)	5	41							
25	Lake Elsinore	4158											
29	Banning Airport	4164	1(20%)	0(0%)	5	55							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	34	10	0	12				
30	Coachella Valley 2**	4157	2(20%)	0(0%)	10	56	8	0	11.7				
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175								5	0.01	5	6.1
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	5	40	10	0	15				
34	Central San Bernardino Valley 1	5197	1(33%)	0(0%)	3	57	10	0	15.2			5	6.2
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	5	48	10	0	15	5	0.01	5	5.9
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	45							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	5	39							
38	East San Bernardino Mountains	5818					5	0	4.8				
District Maximum			4	0		60		0	29.3		0.01		9.6

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

**Salton Sea Air Basin.