

Air Quality Standards Compliance Report (AQSCR)

Statistics for January-February 2009

Vol. 22, No. 1

Published February, 2011

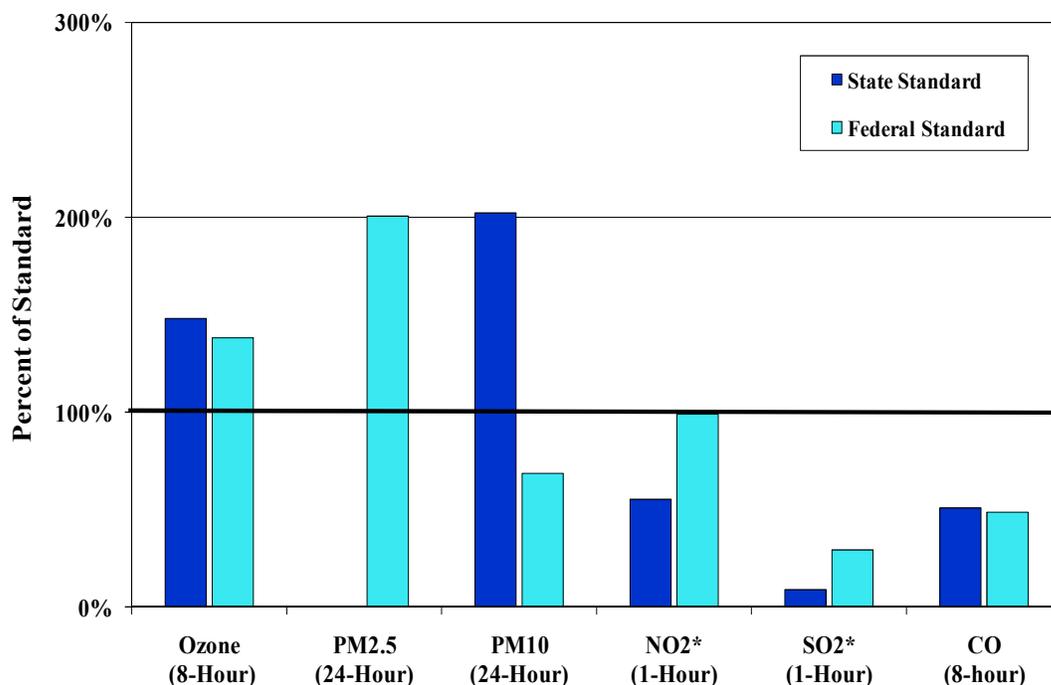
This bimonthly publication satisfies the requirements for reporting on air quality in the South Coast Air Basin set by California legislation (Chapter 1301, Statutes of 1987; Health and Safety Code Section 40451(d)), and supplies similar information for the areas of the Salton Sea Air Basin (Coachella Valley) served by the District.

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 January - February are shown and summarized in the following figures and tables.

Figure 1 (below) shows the 2009 year-to-date maximum pollutants concentrations in the District

(Basin and Coachella Valley) as percent of the current state and federal standards. Table 1 shows the current state and federal ambient air quality standards and compliance criteria. Figure 2 shows the location of the District's air monitoring stations in each source/receptor area.

Tables 2 and 3 summarize monthly air quality statistics for the South Coast Air Basin and the desert area of Coachella Valley monitoring areas for the months of January and February 2009. 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.



*Based on the recently established federal standards effective in 2010.

Figure 1
January-February 2009 Air Quality
Maximum Concentrations as Percent of Standards



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New Ambient Air Quality Standards

Nitrogen Dioxide

U.S. EPA has established a new primary NO₂ 1-hour standard at a level of 100 ppb, based on the 3-year average of the annual 98th percentile of 1-hour daily maximum concentrations, to supplement the existing annual standard. EPA has also established requirements for NO₂ monitoring network that will include monitors at locations where maximum NO₂ concentrations are expected to occur, including within 50 meters of major roadways, as well as monitors sited to measure the area-wide NO₂ concentrations that occur more broadly across communities. This final rule is effective on April 12, 2010.

Sulfur Dioxide

U.S. EPA has revised the primary SO₂ federal standard to provide the needed protection of public health with an adequate margin of safety. Specifically, EPA has established a new 1-hour SO₂ standard at a level of 75 parts per billion (ppb), based on the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations. The EPA has also revoked both the existing 24-hour and annual primary SO₂ standards. This final rule is effective on August 23, 2010.

**TABLE 1
AMBIENT AIR QUALITY STANDARDS**

AIR POLLUTANT	AVERAGING TIME	CALIFORNIA		FEDERAL	
		CONCENTRATION	ATTAINMENT CRITERIA	CONCENTRATION	ATTAINMENT CRITERIA
Ozone (O ₃)	1-Hour	0.09 ppm	Standard not to be exceeded	—	3-year average of the 4 th highest concentration must not exceed the standard
	8-Hour	0.070 ppm		0.075 ppm	
Suspended Particulate Matter (PM _{2.5})	24-Hour	—	—	35 µg/m ³	3-year average of the 98 th percentile concentration must not exceed the standard
	Annual Arithmetic Mean	12 µg/m ³	Standard not to be exceeded	15.0 µg/m ³	3-year average concentration not to exceed the standard
Suspended Particulate Matter (PM ₁₀)	24-Hour	50 µg/m ³	Standard not to be exceeded	150 µg/m ³	Number of days per calendar year exceeding the standard averaged over 3 years must be equal or less than one
	Annual Arithmetic Mean	20 µg/m ³		—	
Nitrogen Dioxide (NO ₂)	1-Hour	0.18 ppm	Standard not to be exceeded	100 ppb	3-year average of the 98 th percentile concentration must not exceed the standard
	Annual Arithmetic Mean	0.030 ppm		0.053ppm	Standard not to be exceeded
Sulfur Dioxide (SO ₂)	1-Hour	0.25 ppm	Standard not to be exceeded	75 ppb	3-year average of the 99 th percentile concentration must not exceed the standard
	24-Hour	0.04 ppm		—	
Carbon Monoxide (CO)	8-Hour	9.0 ppm	Standard not to be exceeded	9 ppm)	Standard not to be exceeded more than once a year
	1-Hour	20 ppm		35 ppm	
Lead (Pb)	30-day Average	1.5 µg/m ³	Standard not to be equaled or exceeded	—	—
	Calendar Quarter	—	—	1.5 µg/m ³	Standard not to be exceeded more than once a year
	Rolling 3-Month Average	—	—	0.15 µg/m ³	
Sulfates	24-Hour	25 µg/m ³	Standard not to be equaled or exceeded	—	—

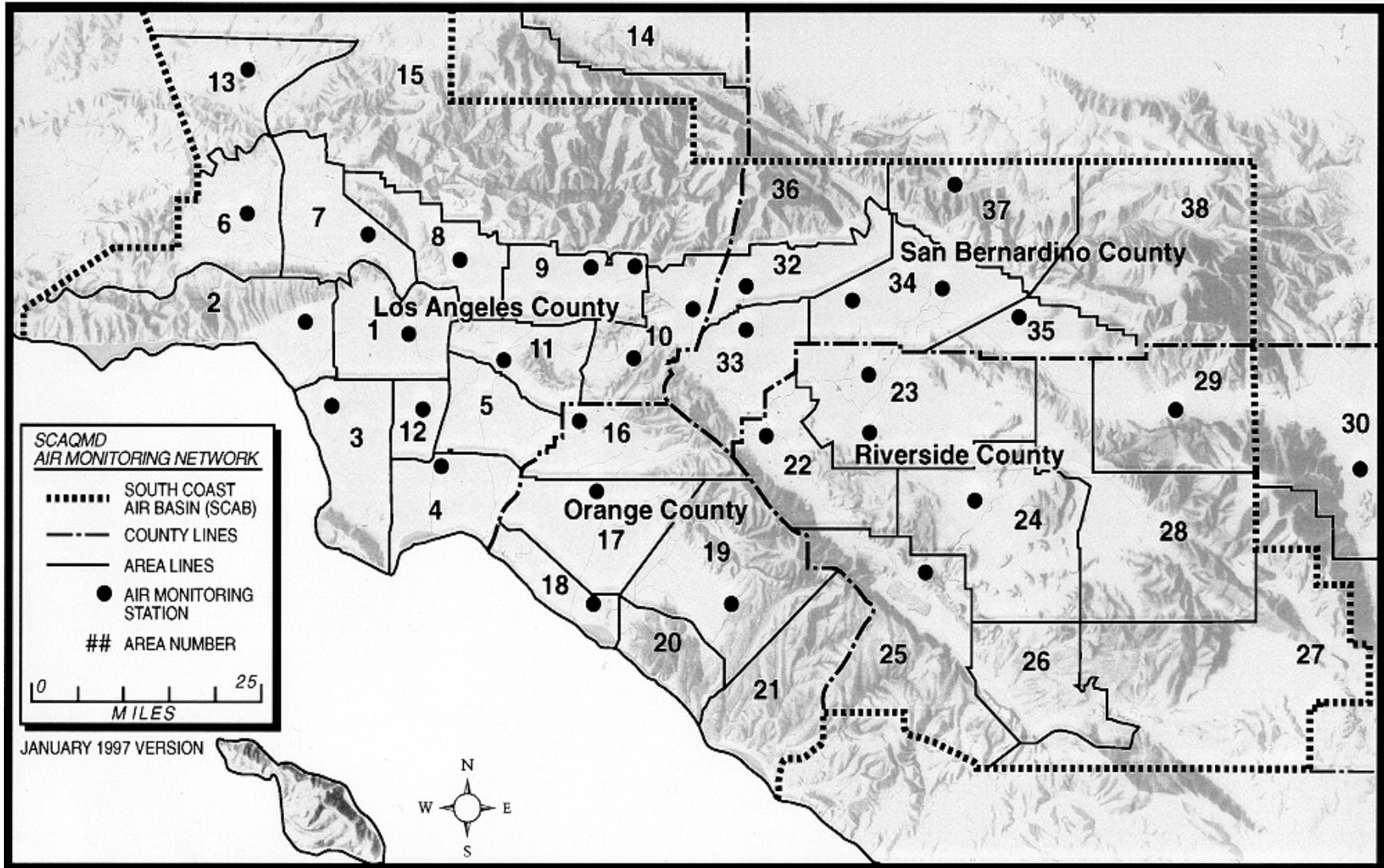


Figure 2
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
Air Basins and Monitoring Stations

Table 2
January 2009
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 ppb	Days Exceeding State/ Federal Standard ^{b)}	Max 1-hour ppb	Max 24-hour ppm	
			State Standard		Health Advisory	Old	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	0.04	0.031	0/0	2.00	0/0	77	0/0	7	0.001
2	Northwest Coastal LA County	91	0	0	0	0	0	0.04	0.040	0/0	1.43	0/0	60			
3	Southwest Coastal LA County	820	0	0	0	0	0	0.04	0.038	0/0	1.89	0/0	77	0/0	22	0.006
4	South Coastal LA County 1	72	0	0	0	0	0	0.04	0.033	0/0	2.29	0/0	68	0/0	13	0.005
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	0	0	0	0	0	0.04	0.040	0/0	2.71	0/0	49			
7	East San Fernando Valley	69	0	0	0	0	0	0.04	0.038	0/0	2.86	0/0	62	0/0	3	0.001
8	West San Gabriel Valley	88	0	0	0	0	0	0.04	0.036	0/0	2.13	0/0	79			
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.05	0.041	0/0	1.14	0/0	79			
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.05	0.045	0/0	1.43	0/0	83			
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.05	0.036	0/0	2.00	0/0	75			
11	South San Gabriel Valley	85	0	0	0	0	0	0.04	0.031	0/0	2.00	0/0	68			
12	South Central LA County	112	0	0	0	0	0	0.03	0.024	0/0	4.61	0/0	79			
13	Santa Clarita Valley	90	0	0	0	0	0	0.05	0.045	0/0	1.00	0/0	60			
ORANGE COUNTY																
16	North Orange County	3177	0	0	0	0	0	0.04	0.040	0/0	2.43	0/0	65			
17	Central Orange County	3176	0	0	0	0	0	0.05	0.046	0/0	2.00	0/0	60			
18	North Coastal Orange County	3195	0	0	0	0	0	0.06	0.050	0/0	2.14	0/0	62	0/0	9	0.003
19	Saddleback Valley	3812	0	0	0	0	0	0.05	0.043	0/0	1.00					
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.05	0.045	0/0	1.71	0/0	59	0/0	11	0.002
23	Metropolitan Riverside County 2	4146								0/0	1.63	0/0	49			
23	Mira Loma	4165	0	0	0	0	0	0.05	0.043	0/0	2.43	0/0	53			
24	Perris Valley	4149	0	0	0	0	0	0.04	0.038							
25	Lake Elsinore	4158	0	0	0	0	0	0.05	0.040	0/0	1.00	0/0	55			
29	Banning Airport	4164	0	0	0	0	0	0.07	0.058			0/0	55			
30	Coachella Valley 1**	4137	0	0	0	0	0	0.04	0.040	0/0	0.71	0/0	40			
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	0.05	0.042	0/0	1.43	0/0	72			
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.05	0.047	0/0	1.38	0/0	75	0/0	3	0.001
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.05	0.045	0/0	1.71	0/0	70			
35	East San Bernardino Valley	5204	0	0	0	0	0	0.05	0.042							
37	Central San Bernardino Mountains	5181	0	0	0	0	0	0.05	0.045							
38	East San Bernardino Mountains	5818														
District Maximum			0	0	0	0	0	0.07	0.058	0/0	4.61	0/0	83	0/0	22	0.005

** 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)
January 2009
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
LOS ANGELES COUNTY													
1	Central LA	87	2(33%)	0(0%)	6	72	31	3	61.7	6	0.0	6	3.2
2	Northwest Coastal LA County	91										5	3.1
3	Southwest Coastal LA County	820	0(0%)	0(0%)	6	43							
4	South Coastal LA County 1	72	3(50%)	0(0%)	6	62	30	2	63.0	7	0.0	7	4.5
4	South Coastal LA County 2	77	3(50%)	0(0%)	6	83	31	1	55.8				
6	West San Fernando Valley	74					10	0	24.9				
7	East San Fernando Valley	69	3(50%)	0(0%)	6	80	10	1	67.5				
8	West San Gabriel Valley	88					8	1	52.0			6	1.8
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	5	43	22	2	47.0			6	2.6
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					11	1	71.1	6	0.0	6	4.3
12	South Central LA County	112					9	1	69.2	5	0.0	5	2.9
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	15							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	6	63	31	3	64.6				
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	6	41	9	1	39.2				
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(17%)	0(0%)	6	65							
23	Metropolitan Riverside County 1	4144	2(18%)	0(0%)	11	75	30	3	54.5	6	0.0	6	2.8
23	Metropolitan Riverside County 2	4146					11	1	42.2	6	0.0	6	2.3
23	Mira Loma	4165	2(33%)	0(0%)	6	103	10	1	41.2				
24	Perris Valley	4149	0(0%)	0(0%)	6	42							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	6	17							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	4	17	11	0	7.1				
30	Coachella Valley 2**	4157	0(0%)	0(0%)	9	43	11	0	17.0				
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175								6	0.0	6	2.3
33	Southwest San Bernardino Valley	5817	2(33%)	0(0%)	6	65	11	2	46.9				
34	Central San Bernardino Valley 1	5197	1(17%)	0(0%)	6	64	11	0	31.7			6	2.6
34	Central San Bernardino Valley 2	5203	1(17%)	0(0%)	6	56	11	1	37.9	6	0.0	6	2.6
35	East San Bernardino Valley	5204	0(0%)	0(0%)	5	18							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	6	44							
38	East San Bernardino Mountains	5818					5	0	29.4				
District Maximum			3	0		103		3	71.1		0.0		4.5

* Salton Sea Air Basin

Table 3
February 2009
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 ppb	Days Exceeding State/ Federal Standard ^{b)}	Max 1-hour ppb	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	0.05	0.035	0/0	1.88	0/0	58	0/0	6	0.002
2	Northwest Coastal LA County	91	0	0	0	0	0	0.05	0.045	0/0	1.00	0/0	54			
3	Southwest Coastal LA County	820	0	0	0	0	0	0.05	0.044	0/0	1.37	0/0	60	0/0	9	0.005
4	South Coastal LA County 1	72	0	0	0	0	0	0.05	0.037	0/0	1.57	0/0	59	0/0	17	0.003
4	South Coastal LA County 2	77														
6	West San Fernando Valley	74	0	0	0	0	0	0.05	0.042	0/0	1.88	0/0	52			
7	East San Fernando Valley	69	0	0	0	0	0	0.05	0.040	0/0	2.00	0/0	63	0/0	3	0.001
8	West San Gabriel Valley	88	0	0	0	0	0	0.05	0.046	0/0	1.00	0/0	62			
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.05	0.046	0/0	1.00	0/0	46			
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.06	0.050	0/0	0.63	0/0	44			
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.05	0.040	0/0	2.00	0/0	55			
11	South San Gabriel Valley	85	0	0	0	0	0	0.06	0.042	0/0	1.43	0/0	58			
12	South Central LA County	112	0	0	0	0	0	0.05	0.033	0/0	3.38	0/0	69			
13	Santa Clarita Valley	90	0	0	0	0	0	0.05	0.045	0/0	0.88	0/0	43			
ORANGE COUNTY																
16	North Orange County	3177	0	0	0	0	0	0.06	0.051	0/0	1.57	0/0	100			
17	Central Orange County	3176	0	0	0	0	0	0.06	0.043	0/0	1.63	0/0	58			
18	North Coastal Orange County	3195	0	0	0	0	0	0.05	0.046	0/0	2.00	0/0	59	0/0	6	0.003
19	Saddleback Valley	3812	0	0	0	0	0	0.06	0.050	0/0	1.00					
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	0	0	0	0	0	0.05	0.046	0/0	2.00	0/0	52	0/0	5	0.003
23	Metropolitan Riverside County 2	4146								0/0	1.88	0/0	52			
23	Mira Loma	4165	0	0	0	0	0	0.05	0.041	0/0	1.77	0/0	47			
24	Perris Valley	4149	0	0	0	0	0	0.05	0.042							
25	Lake Elsinore	4158	0	0	0	0	0	0.05	0.047	0/0	2.83	0/0	38			
29	Banning Airport	4164	0	0	0	0	0	0.06	0.056			0/0	46			
30	Coachella Valley 1**	4137	0	0	0	0	0	0.06	0.050	0/0	0.29	0/0	34			
30	Coachella Valley 2**	4157	0	0	0	0	0	0.06	0.053							
SAN BERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.06	0.042	0/0	1.13	0/0	53			
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.05	0.043	0/0	1.38	0/0	55	0/0	4	0.002
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.05	0.042	0/0	1.50	0/0	51			
35	East San Bernardino Valley	5204	0	0	0	0	0	0.05	0.047							
37	Central San Bernardino Mountains	5181	0	0	0	0	0	0.05	0.050							
38	East San Bernardino Mountains	5818														
District Maximum			0	0	0	0	0	0.06	0.056	0/0	3.38	0/0	100	0/0	17	0.005

** 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)
February 2009
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%)	4	24	28	0	23.9	4	2.6	28	0
2	Northwest Coastal LA County	91								4	2.7		
3	Southwest Coastal LA County	820	0(0%)	0(0%)	4	19							
4	South Coastal LA County 1	72	0(0%)	0(0%)	3	23	26	0	24.6	4	4.5	26	0
4	South Coastal LA County 2	77	0(0%)	0(0%)	3	25	22	0	24.1				
6	West San Fernando Valley	74					9	0	22.1			9	0
7	East San Fernando Valley	69	0(0%)	0(0%)	4	22	8	0	20.2			8	0
8	West San Gabriel Valley	88					8	0	13.5	3	0.6	8	0
9	East San Gabriel Valley 1	60	0(0%)	0(0%)	4	25	16	0	17.0	4	2.2	16	0
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					9	0	20.1	4	2.9	9	0
12	South Central LA County	112					9	0	22.1	4	2.9		
13	Santa Clarita Valley	90	0(0%)	0(0%)	4	12							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	4	28	26	0	24.7			26	0
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	4	17	7	0	10.8			7	0
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	3	22							
23	Metropolitan Riverside County 1	4144	1(13%)	0(0%)	8	74	28	0	33.9	4	2.1	28	0
23	Metropolitan Riverside County 2	4146					9	0	34.0	4	1.8	9	0
23	Mira Loma	4165	0(0%)	0(0%)	4	41	9	0	34.5				
24	Perris Valley	4149	0(0%)	0(0%)	4	26							
25	Lake Elsinore	4158											
29	Banning Airport	4164	0(0%)	0(0%)	4	14							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	4	11	9	0	5.8			9	0
30	Coachella Valley 2**	4157	0(0%)	0(0%)	9	41	9	0	7.0			9	0
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175								4	2.7		
33	Southwest San Bernardino Valley	5817	0(0%)	0(0%)	4	32	9	0	27.7			9	0
34	Central San Bernardino Valley 1	5197	0(0%)	0(0%)	4	37	9	0	31.8	4	2.5	9	0
34	Central San Bernardino Valley 2	5203	0(0%)	0(0%)	3	23	9	1	36.2	4	1.7	9	0
35	East San Bernardino Valley	5204	0(0%)	0(0%)	4	18							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	3	22							
38	East San Bernardino Mountains	5818					4	0	11.8			4	0
District Maximum			1	0		74		1	36.2		4.5		0

* *Salton Sea Air Basin