

Air Quality Standards Compliance Report (AQSCR)

Statistics for July/August 2007

Vol. 20, 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 area 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.

New Air Quality Standards

Ozone - The U.S. EPA significantly strengthened the national air quality standards for ozone, from the 0.08 ppm established in 1997 to 0.075 ppm. The new standard became effective on May 27, 2008. This new standard is not used for the comparison in Tables 1-3 since it was established after the time period when the data for this report were collected.

Nitrogen Dioxide - California ARB has revised the nitrogen dioxide 1-hour state standard from 0.25 ppm to 0.18 ppm, and has established a new annual average state standard of 0.030 ppm. The new standards became effective on March 20, 2008.

July and August 2007 Air Quality

Air quality statistics for the months of July and August are shown and summarized in the following tables. Table 1 (below) summarizes the maximum concentrations recorded and location of the maximum during July-August 2007. Tables 2 and 3 summarize air quality statistics for the South Coast Air Basin and the desert area of Coachella Valley monitoring areas for the months of July and August. The tables show maximum concentrations of the pollutants in each source/receptor area and number of days on which the locations exceeded federal and/or state standards. Figure 1 shows the location of the District's air monitoring stations in each source/receptor area.

Table 1
Maximum Concentrations Reported in July/August 2007
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	0.17	179%	136%	Central San Bernardino Mountains
8-Hour	> 0.070 ppm	> 0.08 ppm	0.137	193%	161%	Central San Bernardino Mountains
Particulate (PM2.5)						
24-Hour		> 35 µg/m ³	77.5		218%	Central San Bernardino Valley
Particulate (PM10)						
24-Hour	> 50 µg/m ³	> 150 µg/m ³	132	259%	87%	Mira Loma
Carbon Monoxide						
8-Hour	> 9.0 ppm	> 9 ppm	2.38	26%	25%	South Coastal Los Angeles County
Nitrogen Dioxide						
1-Hour	> 0.18 ppm		0.09	47%		Central Los Angeles
Sulfur Dioxide						
1-Hour	> 0.25 ppm		0.02	8%		South Coastal Los Angeles County
24-Hour	> 0.04 ppm	> 0.14 ppm	0.006	15%	4%	South Coastal Los Angeles County
Sulfates						
24-Hour	>= 25 µg/m ³		20.3	81%		Central San Bernardino Valley
Lead						
30-Day	>= 1.5 µg/m ³		0.05	3%		South San Gabriel Valley



South Coast Air Quality Management District
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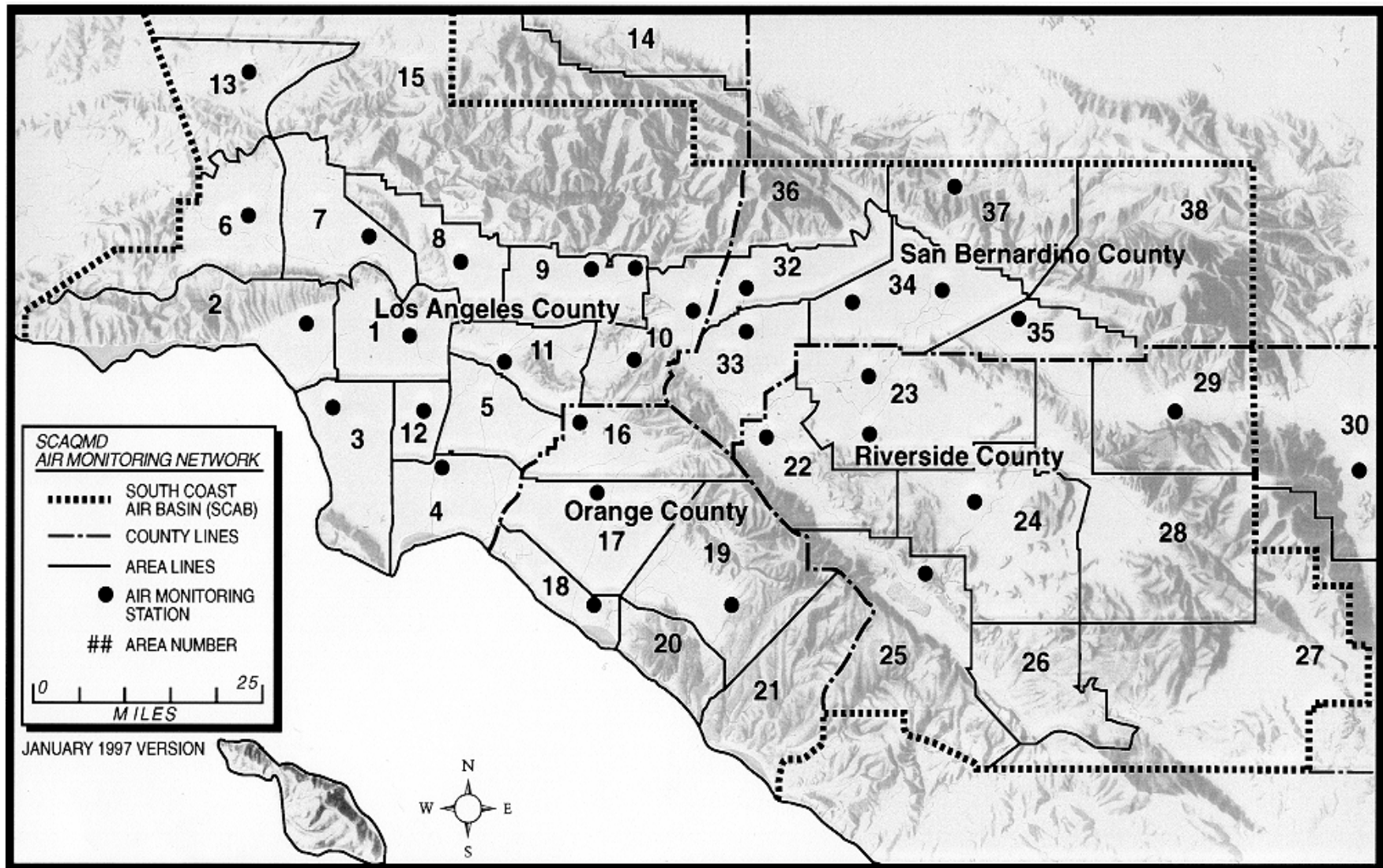


Figure 1
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
Air Basins and Monitoring Stations

Table 2
July 2007
Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.		Location	Station Number		Ozone						Carbon Monoxide		Nitrogen Dioxide			Sulfur Dioxide		
					No. Days Exceeding						Days Exceeding State/ Federal Standard		Days Exceeding State Standard ^{b)}					
			District Code	State Code	State Standard 1-hour	Health Advisory 8-hour	Federal Standard ^{a)} 1-hour	Federal Standard ^{a)} 8-hour	Max 1-hour ppm	Max 8-hour ppm	Max 8-hour ppm	Max 8-hour ppm	1-hour > 0.18 ppm	1-hour > 0.25 ppm	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
LOS ANGELES COUNTY																		
1	Central LA	87	70087	0	1	0	0	0	0.09	0.072	0/0	1.00	0	0	0.08	0.001	0.01	
2	Northwest Coastal LA County	91	70091	0	0	0	0	0	0.08	0.061	0/0	1.00	0	0	0.05			
3	Southwest Coastal LA County	820	70111	0	0	0	0	0	0.08	0.06	0/0	1.00	0	0	0.06	0.002	0.01	
4	South Coastal LA County 1	72	70072	0	0	0	0	0	0.06	0.046	0/0	1.63	0	0	0.05	0.003	0.01	
4	South Coastal LA County 2	77	70110															
6	West San Fernando Valley	74	70074	8	4	0	1	7	0.13	0.103	0/0	1.00	0	0	0.04			
7	East San Fernando Valley	69	70069	6	7	0	0	2	0.11	0.096	0/0	1.00	0	0	0.08	0.001	0.00	
8	West San Gabriel Valley	88	70088	5	6	0	1	2	0.13	0.095	0/0	1.00	0	0	0.05			
9	East San Gabriel Valley 1	60	70060	7	9	0	1	6	0.13	0.111	0/0	1.00	0	0	0.05			
9	East San Gabriel Valley 2	591	70591	9	13	0	1	6	0.14	0.116	0/0	1.00	0	0	0.06			
10	Pomona/Walnut Valley	75	70075	7	7	0	0	4	0.11	0.102	0/0	1.00	0	0	0.07			
11	South San Gabriel Valley	85	70185	1	1	0	0	0	0.10	0.081	0/0	1.00	0	0	0.05			
12	South Central LA County	84	70084	0	0	0	0	0	0.07	0.055	0/0	1.00	0	0	0.05			
13	Santa Clarita Valley	90	70090	13	20	0	2	9	0.13	0.110	0/0	0.88	0	0	0.06			
ORANGE COUNTY																		
16	North Orange County	3177	30177	0	0	0	0	0	0.08	0.067	0/0	0.43	0	0	0.04			
17	Central Orange County	3178*	30178	0	0	0	0	0	0.08	0.065	0/0	0.29	0	0	0.03			
18	North Coastal Orange County	3195	30195	0	0	0	0	0	0.06	0.048	0/0	0.00	0	0	0.02	0.002	0.01	
19	Saddleback Valley	3182*	30002	0	0	0	0	0	0.08	0.068	0/0	0.00						
RIVERSIDE COUNTY																		
22	Norco/Corona	4155	33155															
23	Metropolitan Riverside County 1	4144	33144	8	14	0	0	7	0.12	0.112	0/0	1.14	0	0	0.05	0.001	0.00	
23	Metropolitan Riverside County 2	4146	33146								0/0	1.00						
23	Mira Loma	5214	33165	7	10	0	0	6	0.12	0.104	0/0	1.00	0	0	0.05			
24	Perris Valley	4149	33149	22	25	0	2	12	0.14	0.116								
25	Lake Elsinore	4158	33158	10	13	0	2	8	0.13	0.110	0/0	0.86	0	0	0.05			
29	Banning Airport	4164	33164	14	19	0	1	7	0.13	0.113			0	0	0.05			
30	Coachella Valley 1**	4137	33137	4	15	0	0	4	0.11	0.100	0/0	0.14	0	0	0.05			
30	Coachella Valley 2**	4157	33157	1	8	0	0	0	0.10	0.082								
SAN BERNARDINO COUNTY																		
32	Northwest San Bernardino Valley	5175	36175	10	15	0	3	7	0.13	0.116	0/0	1.00	0	0	0.07			
33	Southwest San Bernardino Valley	5817	36025															
34	Central San Bernardino Valley 1	5197	36197	10	14	0	5	7	0.14	0.123	0/0	1.00	0	0	0.07	0.001	0.01	
34	Central San Bernardino Valley 2	5203	36203	12	18	1	5	7	0.15	0.121	0/0	1.00	0	0	0.06			
35	East San Bernardino Valley	5204	36204	15	22	1	6	9	0.15	0.125								
37	Central San Bernardino Mountains	5181	36181	21	26	3	6	21	0.17	0.137								
38	East San Bernardino Mountains	5818	36001															
District Maximum					22	26	3	6	21	0.17	0.137	0/0	1.63	0	0	0.08	0.003	0.01

a) The federal 1-hour ozone standard was revoked and replaced by the 8-hour average standard effective June 15, 2005. U.S. EPA has revised the 1997 federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008. Data for previous standards are provided for information only.

b) California Air Resources Board has revised the NO₂ 1-hour standard from 0.25 ppm to 0.18 ppm, effective March 20, 2008.

* Revised/corrected station number.

** Salton Sea Air Basin.

Table 2 (continued)

July 2007

Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.		Station Number		PM10				PM2.5				Lead		Sulfate	
				No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average µg/m3	Number of Days Exceeding Federal Standard ^{c)}		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			> 35 µg/m3	>65 µg/m3						
		Location	District No.	State No.	State Standard	Federal Standard	Days Sampled	Average µg/m3	Number Days Sampled	> 35 µg/m3	>65 µg/m3	Average µg/m3	Number Days Sampled	Monthly Average µg/m3	Number Days Sampled
LOS ANGELES COUNTY															
1	Central LA	87	70087	0	0	4	36	31	2	0	44.8	4	0.02	4	8.6
2	Northwest Coastal LA County	91	70091											5	8.1
3	Southwest Coastal LA County	820	70111	0	0	5	29								
4	South Coastal LA County 1	72	70072	0	0	6	38	27	0	0	31.6	5	0.00	5	11.1
4	South Coastal LA County 2	77	70110	0	0	5	35	29	0	0	20.2				
6	West San Fernando Valley	74	70074					10	0	0	33.4				
7	East San Fernando Valley	69	70069	1(20.0)	0	5	93	10	1	0	56.5				
8	West San Gabriel Valley	88	70088					10	1	1	68.9				
9	East San Gabriel Valley 1	60	70060	0+	0+	4+	40+	24	1	0	43.6				
9	East San Gabriel Valley 2	591	70591												
10	Pomona/Walnut Valley	75	70075												
11	South San Gabriel Valley	85	70185					9	1	0	63.6	5	0.00	5	7.4
12	South Central LA County	84	70084					10	0	0	28.6	4	0.00		
13	Santa Clarita Valley	90	70090	1(20.0)	0	5	61								
ORANGE COUNTY															
16	North Orange County	3177	30177												
17	Central Orange County	3178*	30178	0	0	5	49	30	0	0	27.3				
18	North Coastal Orange County	3195	30195												
19	Saddleback Valley	3182*	30002	0	0	5	25	10	0	0	17.4				
RIVERSIDE COUNTY															
22	Norco/Corona	4155	33155	1(20.0)	0	5	92								
23	Metropolitan Riverside County 1	4144	33144	7(70.0)	0	10	117	28	1	0	48.9	5	0.02	5	13.0
23	Metropolitan Riverside County 2	4146	33146					7	0	0	21.7	5	0.02	5	9.2
23	Mira Loma	5214	33165	4(80.0)	0	5	132	9	1	0	60.1				
24	Perris Valley	4149	33149	2(50.0)	0	4	92								
25	Lake Elsinore	4158	33158												
29	Banning Airport	4164	33164	1(20.0)	0	5	67								
30	Coachella Valley 1**	4137	33137	0	0	5	45	10	0	0	17				
30	Coachella Valley 2**	4157	33157	4(80.0)	0	5	64	7	0	0	15.5				
SAN BERNARDINO COUNTY															
32	Northwest San Bernardino Valley	5175	36175									5	0.01	5	6.8
33	Southwest San Bernardino Valley	5817	36025	1(20.0)	0	5	115	9	1	1	72.8				
34	Central San Bernardino Valley 1	5197	36197	2(50.0)+	0+	4+	69+	8	1	1	77.5			5	20.3
34	Central San Bernardino Valley 2	5203	36203	2(40.0)	0	5	65	9	1	0	48.2	5	0.03	5	13.6
35	East San Bernardino Valley	5204	36204	2(40.0)	0	5	86								
37	Central San Bernardino Mountains	5181	36181	0	0	5	49								
38	East San Bernardino Mountains	5818	36001					5	0	0	11.8				
District Maximum				7	0+		132		2	1	77.5		0.03		20.3

c) U.S. EPA has revised the 24-hour federal standard level for PM2.5 from 65 µg/m³ to 35 µg/m³, effective December 17, 2006. Data is provided for information only.

+ The two high PM10 samples taken on July 5, 2007, at East San Gabriel Valley (165 µg/m³) and Central San Bernardino Valley 1 (155 µg/m³) due to fire work display, were excluded in reference to the EPA's Natural Event Policy.

Table 3
August 2007
Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.		Location	Station Number		Ozone						Carbon Monoxide		Nitrogen Dioxide			Sulfur Dioxide	
					No. Days Exceeding						Days Exceeding State/ Federal Standard	Max 8-hour ppm	Days Exceeding State Standard ^{b)}			Max 24-hour ppm	Max 1-hour ppm
			State Standard 1-hour	Health 8-hour Advisory	Federal Standard ^{a)} 1-hour	Federal Standard ^{a)} 8-hour	Max 1-hour ppm	Max 8-hour ppm	1-hour > 0.18 ppm	1-hour > 0.25 ppm			Max 1-hour ppm				
LOS ANGELES COUNTY																	
1	Central LA	87	70087	0	1	0	0	0	0.09	0.077	0/0	1.00	0	0	0.09	0.002	0.01
2	Northwest Coastal LA County	91	70091	0	0	0	0	0	0.09	0.068	0/0	1.29	0	0	0.06		
3	Southwest Coastal LA County	820	70111	0	0	0	0	0	0.07	0.055	0/0	2.00	0	0	0.06	0.005	0.01
4	South Coastal LA County 1	72	70072	0	0	0	0	0	0.06	0.051	0/0	2.38	0	0	0.07	0.006	0.02
4	South Coastal LA County 2	77	70110														
6	West San Fernando Valley	74	70074	4	10	0	0	1	0.12	0.086	0/0	1.14	0	0	0.06		
7	East San Fernando Valley	69	70069	3	3	0	0	1	0.11	0.096	0/0	1.00	0	0	0.07	0.001	0.00
8	West San Gabriel Valley	88	70088	4	6	0	0	1	0.10	0.090	0/0	1.57	0	0	0.07		
9	East San Gabriel Valley 1	60	70060	4	5	0	0	3	0.12	0.093	0/0	1.00	0	0	0.08		
9	East San Gabriel Valley 2	591	70591	6	10	0	0	3	0.12	0.097	0/0	1.29	0	0	0.08		
10	Pomona/Walnut Valley	75	70075	4	5	0	0	1	0.12	0.105	0/0	1.14	0	0	0.08		
11	South San Gabriel Valley	85	70185	1	3	0	0	0	0.10	0.082	0/0	0.86	0	0	0.08		
12	South Central LA County	84	70084	0	0	0	0	0	0.07	0.057	0/0	1.29	0	0	0.06		
13	Santa Clarita Valley	90	70090	8	18	0	0	5	0.11	0.088	0/0	0.75	0	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	30177	2	4	0	0	0	0.10	0.082	0/0	1.00	0	0	0.05		
17	Central Orange County	3178*	30178	0	3	0	0	0	0.09	0.073	0/0	0.71	0	0	0.06		
18	North Coastal Orange County	3195	30195	0	0	0	0	0	0.08	0.061	0/0	0.29	0	0	0.03	0.001	0.01
19	Saddleback Valley	3182*	30002	2	5	0	0	0	0.11	0.083	0/0	0.29					
RIVERSIDE COUNTY																	
22	Norco/Corona	4155	33155														
23	Metropolitan Riverside County 1	4144	33144	11	21	0	1	6	0.13	0.101	0/0	1.29	0	0	0.07	0.001	0.00
23	Metropolitan Riverside County 2	4146	33146								0/0	1.00					
23	Mira Loma	5214	33165	2	8	0	0	1	0.11	0.087	0/0	1.00	0	0	0.06		
24	Perris Valley	4149	33149	21	23	0	1	11	0.13	0.105							
25	Lake Elsinore	4158	33158	9	12	0	1	5	0.13	0.097	0/0	0.57	0	0	0.05		
29	Banning Airport	4164	33164	14	19	0	0	8	0.12	0.100			0	0	0.06		
30	Coachella Valley 1**	4137	33137	8	12	0	0	5	0.11	0.097	0/0	0.43	0	0	0.04		
30	Coachella Valley 2**	4157	33157	3	3	0	0	1	0.10	0.086							
SAN BERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	36175	9	16	0	1	4	0.13	0.112	0/0	1.00	0	0	0.05		
33	Southwest San Bernardino Valley	5817	36025														
34	Central San Bernardino Valley 1	5197	36197	11	16	0	2	2	0.13	0.108	0/0	1.14	0	0	0.07	0.001	0.01
34	Central San Bernardino Valley 2	5203	36203	12	20	0	3	7	0.13	0.107	0/0	1.00	0	0	0.07		
35	East San Bernardino Valley	5204	36204	14	20	0	1	6	0.13	0.102							
37	Central San Bernardino Mountains	5181	36181	17	24	0	2	15	0.14	0.125							
38	East San Bernardino Mountains	5818	36001														
District Maximum				21	24	0	3	15	0.14	0.125	0/0	2.38	0	0	0.09	0.006	0.02

a) The federal 1-hour ozone standard was revoked and replaced by the 8-hour average standard effective June 15, 2005. U.S. EPA has revised the 1997 federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008. Data for previous standards are provided for information only.

b) California Air Resources Board has revised the NO₂ 1-hour standard from 0.25 ppm to 0.18 ppm, effective March 20, 2008.

* Revised/corrected station number.

** Salton Sea Air Basin

Table 3 (continued)

August 2007

Exceedances of Standards and Maximum Concentrations

Source/ Receptor No.		Station Number		PM10				PM2.5				Lead		Sulfate	
				No. (%) Days Exceeding		Number Days Sampled	Max 24-hour Average µg/m3	Number of Days Exceeding Federal Standard ^{c)}		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			> 35 µg/m3	>65 µg/m3						
		Location		District No.	State No.				Number Days Sampled						
LOS ANGELES COUNTY															
1	Central LA	87	70087	0	0	5	49	31	0	0	20.9	5	0.04	5	10.5
2	Northwest Coastal LA County	91	70091											5	7.3
3	Southwest Coastal LA County	820	70111	0	0	5	35								
4	South Coastal LA County 1	72	70072	0	0	5	35	31	0	0	21.3	5	0.01	5	8.5
4	South Coastal LA County 2	77	70110	0	0	5	48	31	0	0	21.1				
6	West San Fernando Valley	74	70074					10	0	0	18.1				
7	East San Fernando Valley	69	70069	2(40.0)	0	5	55	10	0	0	20.7				
8	West San Gabriel Valley	88	70088					11	0	0	19.2			5	6.1
9	East San Gabriel Valley 1	60	70060	3(60.0)	0	5	71	23	0	0	21.6			5	7.3
9	East San Gabriel Valley 2	591	70591												
10	Pomona/Walnut Valley	75	70075												
11	South San Gabriel Valley	85	70185					7	0	0	19.5	4	0.05	4	7.5
12	South Central LA County	84	70084					9	0	0	16.5	5	0.01	5	7.5
13	Santa Clarita Valley	90	70090	1(25.0)	0	4	51								
ORANGE COUNTY															
16	North Orange County	3177	30177												
17	Central Orange County	3178*	30178	0	0	5	35	31	0	0	19.5				
18	North Coastal Orange County	3195	30195												
19	Saddleback Valley	3182*	30002	0	0	4	34	11	0	0	15.8				
RIVERSIDE COUNTY															
22	Norco/Corona	4155	33155	1(20.0)	0	5	51								
23	Metropolitan Riverside County 1	4144	33144	8(88.9)	0	9	86	24	0	0	26.3	5	0.00	5	5.9
23	Metropolitan Riverside County 2	4146	33146					11	0	0	20.6	5	0.00	5	5.1
23	Mira Loma	5214	33165	4(100.0)	0	4	95	10	0	0	25.1				
24	Perris Valley	4149	33149	4(80.0)	0	5	87								
25	Lake Elsinore	4158	33158												
29	Banning Airport	4164	33164												
30	Coachella Valley 1**	4137	33137	0	0	5	42	9	0	0	13.5				
30	Coachella Valley 2**	4157	33157	4(80.0)	0	5	69	9	0	0	11.9				
SAN BERNARDINO COUNTY															
32	Northwest San Bernardino Valley	5175	36175									5	0.01	5	5.3
33	Southwest San Bernardino Valley	5817	36025	2(40.0)	0	5	69	11	0	0	19.1				
34	Central San Bernardino Valley 1	5197	36197	4(80.0)	0	5	94	7	0	0	22.4	4		4	5.5
34	Central San Bernardino Valley 2	5203	36203	4(80.0)	0	5	78	11	0	0	18.7	5	0.00	5	5.7
35	East San Bernardino Valley	5204	36204	2(40.0)	0	5	56								
37	Central San Bernardino Mountains	5181	36181	0	0	5	42								
38	East San Bernardino Mountains	5818	36001					5	0	0	23.9				
District Maximum				8	0		95		0	0	26.3		0.05		10.5

c) U.S. EPA has revised the 24-hour federal standard level for PM2.5 from 65 µg/m³ to 35 µg/m³, effective December 17, 2006. Data is provided for information only.