

Air Quality Standards Compliance Report

Statistics for September/October 2004

Vol. 17, No. 5

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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 areas of the Salton Sea Air Basin (Coachella Valley) served by the District.

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Based on the "Review of the California Ambient Air Quality Standards for Ozone," the staff of California Air Resources Board is considering revising the California Ozone Standard to establish a new 8-hour average standard of 0.070 ppm in order to adequately protect public health, including infant and children.

September and October 2004 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 figures and tables.

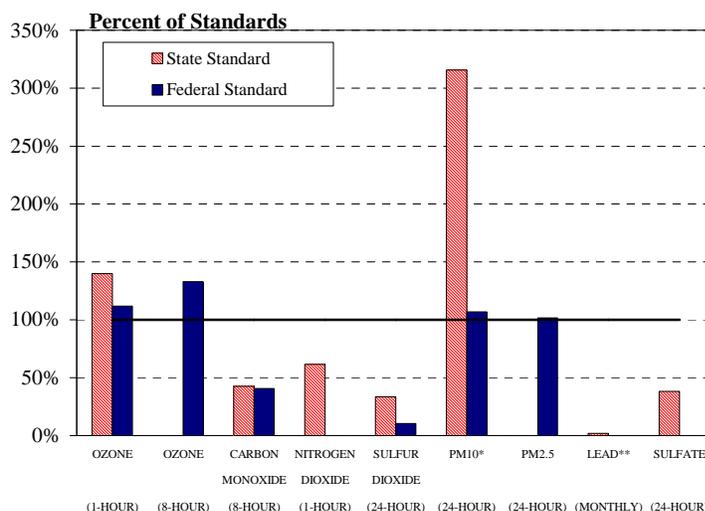
Figure 1 shows the maximum pollutant concentrations recorded during September - October 2004 as percentages of the state and federal ambient air quality standards.

Table 1 (on page 2) shows the state and federal ambient air quality standards for criteria pollutants, the maximum concentrations recorded during September/October 2004 and the location where the maximum concentration was recorded.

During September and October, 2004, the concentrations of carbon monoxide, nitrogen dioxide, sulfur dioxide, sulfate, and lead were within state and federal air quality standards at all locations monitored by the District. Ozone concentrations exceeded the state and federal standards at most locations. PM10 concentrations were

within the federal standard at all locations in the South Coast Air Basin, while exceeding on one day in October in the Coachella Valley area in the Salton Sea Air Basin (this high PM10 concentration occurred due to the high wind). PM10 concentrations exceeded the state standard at most locations. PM2.5 concentrations exceeded the federal standard at one location on one day in October.

Figure 2 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, 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 September and October 2004 are summarized in Tables 2 and 3, respectively.



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

Figure 1
Maximum Concentrations as Percent of State and Federal Standards for September and October 2004



South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4182
<http://www.aqmd.gov>

Table 1. Maximum Concentrations Reported in September/October 2004 Compared to the Ambient Air Quality Standards

Pollutant Averaging Time	Criteria Pollutants' Air Quality Standards		Maximum Concentrations			Location
	State	Federal	ppm/ µg/m ³	% State Standard	% Federal Standard	
Ozone 1-Hour	> 0.09 ppm	> 0.12 ppm	0.14	140%	112%	Santa Clarita Valley and East San Bernardino Valley
8-Hour		> 0.08 ppm	0.113		133%	Metropolitan Riverside County
Carbon Monoxide 8-Hour	> 9.0 ppm	> 9 ppm	3.86	42%	41%	South Central Los Angeles County
Nitrogen Dioxide 1-Hour	> 0.25 ppm		0.16	62%		Central Los Angeles
24-Hour			0.090			East San Fernando Valley
Sulfur Dioxide 1-Hour	> 0.25 ppm		0.08	31%		Central Los Angeles
24-Hour	> 0.04 ppm	> 0.14 ppm	0.015	37%	11%	South Coastal Los Angeles County
Particulate (PM10) 24-Hour	> 50 µg/m ³	> 150 µg/m ³	161	316%	107%	Coachella Valley
Particulate (PM2.5) 24-Hour		> 65 µg/m ³	66.6		102%	South Coastal Los Angeles County
Sulfates 24-Hour	>= 25 µg/m ³		9.5	38%		Central San Bernardino Valley
Lead 30-Day	>= 1.5 µg/m ³		0.03	2%		South Central Los Angeles County
30-Day*			0.25*	17%		Central Los Angeles

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

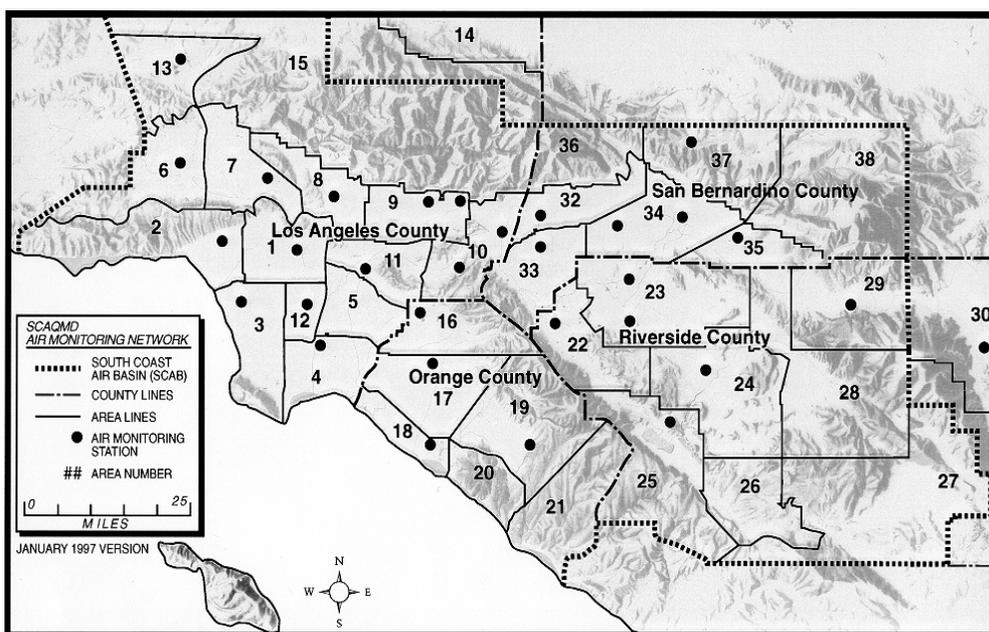


Figure 3
 South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert
 Air Basins and Monitoring Stations

Table 2
September 2004
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
			No. Days Exceeding						Days Exceeding				Days Exceeding State Std	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
			State Std* 1-hour	State Std* 8-hour	Health Advisory	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	4	3	0	0	1	0.11	0.091	0/0	0/0	2.00	2	0	0.11	0.006	0.08
2	Northwest Coastal LA County	91	4	3	0	0	1	0.11	0.088	0/0	0/0	1.71	2	0	0.09		
3	Southwest Coastal LA County	94															
4	South Coastal LA County	72	0	0	0	0	0	0.08	0.072	0/0	0/0	1.29	2	0	0.08	0.013	0.04
6	West San Fernando Valley	74	10	11	0	0	6	0.12	0.102	0/0	0/0	1.71	2	0	0.08		
7	East San Fernando Valley	69	10	12	0	1	2	0.13	0.105	0/0	0/0	1.67	2	0	0.11	0.006	0.01
8	West San Gabriel Valley	88	8	9	0	0	4	0.12	0.102	0/0	0/0	1.86	2	0	0.10		
9	East San Gabriel Valley 1	60	6	5	0	1	3	0.13	0.095	0/0	0/0	1.57	3	0	0.09		
9	East San Gabriel Valley 2	591	9	6	0	2	4	0.13	0.095	0/0	0/0	0.88	1	0	0.08		
10	Pomona/Walnut Valley	75	7	5	0	1	3	0.13	0.096	0/0	0/0	1.86	3	0	0.11		
11	South San Gabriel Valley	85	4	4	0	0	0	0.10	0.083	0/0	0/0	1.71	3	0	0.11		
12	South Central LA County	84	0	0	0	0	0	0.08	0.071	0/0	0/0	3.00	5	0	0.09		
13	Santa Clarita Valley	90	11	13	0	2	6	0.14	0.106	0/0	0/0	1.29	2	0	0.06		
ORANGE COUNTY																	
16	North Orange County	3177	4	4	0	0	0	0.10	0.080	0/0	0/0	1.86	4	0	0.08		
17	Central Orange County	3176	9	11	0	0	5	0.12	0.096	0/0	0/0	1.43	2	0	0.12		
18	North Coastal Orange County	3195	0	1	0	0	0	0.09	0.078	0/0	0/0	1.43	2	0	0.05	0.009	0.03
19	Saddleback Valley	3812	3	5	0	0	2	0.12	0.088	0/0	0/0	1.00	2				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	13	12	0	2	10	0.13	0.113	0/0	0/0	2.43	3	0	0.08	0.004	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	1.75	3				
24	Perris Valley	4149	6	4	0	0	1	0.11	0.093								
25	Lake Elsinore	4158	5	5	0	1	3	0.13	0.103	0/0	0/0	0.86	1	0	0.05		
29	Banning/San Gorgonio Pass	4164	3	5	0	0	3	0.11	0.095					0	0.06		
30	Coachella Valley 1**	4137	0	1	0	0	1	0.09	0.085	0/0	0/0	0.57	1	0	0.04		
30	Coachella Valley 2**	4157	1	1	0	0	0	0.10	0.083								
SANBERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	7	5	0	0	4	0.12	0.102	0/0	0/0	1.43	2	0	0.11		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	8	9	0	1	4	0.13	0.098	0/0	0/0	1.71	3	0	0.09	0.002	0.01
34	Central San Bernardino Valley 2	5203	10	8	0	0	5	0.12	0.091	0/0	0/0	1.57	2	0	0.08		
35	East San Bernardino Valley	5204	12	10	0	2	9	0.14	0.103								
37	Central San Bernardino Mountain	5181	12	13	0	0	10	0.12	0.096								
38	Big Bear Lake	5818															
District maximum			13	13	0	2	10	0.14	0.113	0/0	0/0	3.00	5	0	0.12	0.013	0.08

* Air Resources Board has approved revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm. The new standard is expected to take effect by December 2005.

** Salton Sea air basin at this time.

Table 2 (continued)
September 2004
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 ug/m3	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Sampled	Number Days Exceeding Federal Standard	Max 24-hour Average ug/m3
LOS ANGELES COUNTY													
1	Central LA	87	0(0%)	0(0%)	5	48	6	0.01	6	9.0	28	0	57.2
2	Northwest Coastal LA County	91							5	7.3			
3	Southwest Coastal LA County	94											
4	South Coastal LA County	72	0(0%)	0(0%)	5	42	5	0.01	5	8.8	29	0	46.1
6	West San Fernando Valley	74									10	0	33.1
7	East San Fernando Valley	69	0(0%)	0(0%)	5	47					9	0	49.3
8	West San Gabriel Valley	88							5	7.4	10	0	39.6
9	East San Gabriel Valley 1	60	1(20%)	0(0%)	5	53			5	7.4	24	0	60.8
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					3	0.01	3	8.8	9	0	56.4
12	South Central LA County	84					5	0.01	5	8.7	10	0	51.7
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	50							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	4	50					28	0	42.9
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	4	31					10	0	19.3
RIVERSIDE COUNTY													
22	Norco/Corona	4155	2(40%)	0(0%)	5	76							
23	Metropolitan Riverside County 1	4144	8(80%)	0(0%)	10	110	5	0.01	5	5.7	29	0	47.0
23	Metropolitan Riverside County 2	4146					5	0.01	5	6.6	10	0	32.8
24	Perris Valley	4149	1(20%)	0(0%)	5	67							
25	Lake Elsinore	4158											
29	Banning/San Gorgonio Pass	4164	0(0%)	0(0%)	5	38							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	35					9	0	11.8
30	Coachella Valley 2**	4157	3(30%)	0(0%)	10	73					9	0	11.7
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.01	5	7.7			
33	Southwest San Bernardino Valley	5817	2(40%)	0(0%)	5	73					10	0	48.6
34	Central San Bernardino Valley 1	5197	4(80%)	0(0%)	5	75			4	5.9	10	0	38.4
34	Central San Bernardino Valley 2	5203	2(40%)	0(0%)	5	67	5	0.01	5	8.2	9	0	29.1
35	East San Bernardino Valley	5204	1(20%)	0(0%)	5	56							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	39							
38	Big Bear Lake	5818									5	0	9.5
District maximum			8	0		110		0.01		9.0		0	60.8

** Salton Sea air basin

***Special monitoring of lead near stationary sources was carried out in September 2004 and the maximum monthly average was 0.21 µg/m³.

Table 3
October 2004
Exceedances of Standards and Maximum Concentrations

No.	Location	Stn. No.	Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
			No. Days Exceeding						Days Exceeding				Days Exceeding State Std	Max 1-hour ppm	Max 24-hour ppm	Max 1-hour ppm	
			State Standard*		Health Advisory	Federal Standard		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	0.09	0.053	0/0	0/0	3.00	3	0	0.16	0.004	0.01
2	Northwest Coastal LA County	91	0	0	0	0	0	0.08	0.068	0/0	0/0	1.14	2	0	0.07		
3	Southwest Coastal LA County	94															
4	South Coastal LA County	72	1	0	1	1	1	0.09	0.056	0/0	0/0	1.86	2	0	0.12	0.015	0.04
6	West San Fernando Valley	74	1	1	0	0	0	0.10	0.075	0/0	0/0	2.14	3	0	0.08		
7	East San Fernando Valley	69	0	0	0	0	0	0.07	0.056	0/0	0/0	2.29	3	0	0.12	0.010	0.01
8	West San Gabriel Valley	88	0	0	0	0	0	0.08	0.058	0/0	0/0	2.75	3	0	0.12		
9	East San Gabriel Valley 1	60	0	0	0	0	0	0.09	0.057	0/0	0/0	2.00	2	0	0.10		
9	East San Gabriel Valley 2	591	0	0	0	0	0	0.08	0.058	0/0	0/0	0.88	2	0	0.10		
10	Pomona/Walnut Valley	75	0	0	0	0	0	0.09	0.065	0/0	0/0	2.14	3	0	0.11		
11	South San Gabriel Valley	85	0	0	0	0	0	0.08	0.055	0/0	0/0	2.71	3	0	0.12		
12	South Central LA County	84	0	0	0	0	0	0.06	0.046	0/0	0/0	3.86	6	0	0.10		
13	Santa Clarita Valley	90	3	3	0	0	2	0.12	0.088	0/0	0/0	1.14	2	0	0.08		
ORANGE COUNTY																	
16	North Orange County	3177	0	0	0	0	0	0.09	0.053	0/0	0/0	2.00	3	0	0.11		
17	Central Orange County	3176	3	5	0	0	1	0.12	0.087	0/0	0/0	2.00	2	0	0.08		
18	North Coastal Orange County	3195	0	1	0	0	0	0.08	0.077	0/0	0/0	2.00	2	0	0.08	0.006	0.02
19	Saddleback Valley	3812	1	0	0	0	0	0.11	0.072	0/0	0/0	1.25	2				
RIVERSIDE COUNTY																	
22	Norco/Corona	4155															
23	Metropolitan Riverside County 1	4144	1	3	0	0	0	0.10	0.08	0/0	0/0	3.00	4	0	0.09	0.009	0.01
23	Metropolitan Riverside County 2	4146								0/0	0/0	1.88	3				
24	Perris Valley	4149	0	0	0	0	0	0.09	0.071								
25	Lake Elsinore	4158	0	1	0	0	0	0.09	0.077	0/0	0/0	1.00	1	0	0.06		
29	Banning/San Gorgonio Pass	4164	0	0	0	0	0	0.09	0.073					0	0.09		
30	Coachella Valley 1**	4137	0	0	0	0	0	0.09	0.073	0/0	0/0	0.50	1	0	0.07		
30	Coachella Valley 2**	4157	0	0	0	0	0	0.08	0.071								
SAN BERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	0	0	0	0	0	0.09	0.067	0/0	0/0	1.57	2	0	0.10		
33	Southwest San Bernardino Valley	5817															
34	Central San Bernardino Valley 1	5197	0	0	0	0	0	0.09	0.072	0/0	0/0	1.75	3	0	0.10	0.001	0.01
34	Central San Bernardino Valley 2	5203	0	0	0	0	0	0.09	0.072	0/0	0/0	3.00	4	0	0.12		
35	East San Bernardino Valley	5204	0	0	0	0	0	0.09	0.072								
37	Central San Bernardino Mountain	5181	0	1	0	0	0	0.09	0.082								
38	Big Bear Lake	5818															
District maximum			3	5	1	1	2	0.12	0.088	0/0	0/0	3.86	6	0	0.16	0.015	0.04

* Air Resources Board has approved revising the California Ozone Standard to establish a new 8-hour average standard of 0.07 ppm. The new standard is expected to take effect by December 2005.

** Salton Sea air basin at this time.

Table 3 (continued)
October 2004
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 ug/m3	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Max 24-hour Average ug/m3	Number Days Exceeding Federal Standard	Max 24-hour Average ug/m3	
LOS ANGELES COUNTY													
1	Central LA	87	1(20%)	0(0%)	5	72	5	0.02	5	8.9	30	0	54.8
2	Northwest Coastal LA County	91							5	7.1			
3	Southwest Coastal LA County	94											
4	South Coastal LA County	72	1(25%)	0(0%)	4	72	5	0.02	5	6.8	22	1	66.6
6	West San Fernando Valley	74									10	0	31.8
7	East San Fernando Valley	69	1(20%)	0(0%)	5	74					9	0	42.5
8	West San Gabriel Valley	88							5	9.1	8	0	36.7
9	East San Gabriel Valley 1	60	1(20%)	0(0%)	5	83			5	6.9	30	0	61.7
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	75											
11	South San Gabriel Valley	85					5	0.01	5	7.4	9	0	45.9
12	South Central LA County	84					5	0.03	5	5.0	10	0	53.0
13	Santa Clarita Valley	90	0(0%)	0(0%)	5	46							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	0(0%)	0(0%)	4	43					30	0	58.9
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	4	34					9	0	25.0
RIVERSIDE COUNTY													
22	Norco/Corona	4155	1(25%)	0(0%)	4	68							
23	Metropolitan Riverside County 1	4144	4(44%)	0(0%)	9	122	5	0.01	5	7.4	30	0	49.4
23	Metropolitan Riverside County 2	4146					5	0.01	5	8.4	9	0	39.6
24	Perris Valley	4149	2(40%)	0(0%)	5	72							
25	Lake Elsinore	4158											
29	Banning/San Gorgonio Pass	4164	0(0%)	0(0%)	5	43							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	5	37					10	0	25.5
30	Coachella Valley 2**	4157	2(20%)	1(10%)	10	161					9	0	25.9
SANBERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					4	0.01	4	8.6			
33	Southwest San Bernardino Valley	5817	1(33%)	0(0%)	3	87					7	0	45.7
34	Central San Bernardino Valley 1	5197	2(40%)	0(0%)	5	106			5	9.5	5	0	39.8
34	Central San Bernardino Valley 2	5203	2(40%)	0(0%)	5	93	5	0.01	5	8.6	5	0	36.8
35	East San Bernardino Valley	5204	2(50%)	0(0%)	4	59							
37	Central San Bernardino Mountain	5181	0(0%)	0(0%)	5	50							
38	Big Bear Lake	5818									5	0	21.9
District maximum			4	1		161		0.03		9.5		1	66.6

** Salton Sea air basin

***Special monitoring of lead near stationary sources was carried out in October 2004 and the maximum monthly average was 0.25 µg/m³.