

# Air Quality Standards Compliance Report

Statistics for June 2001

Vol. 14, No. 6

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## JUNE 2001 AIR QUALITY

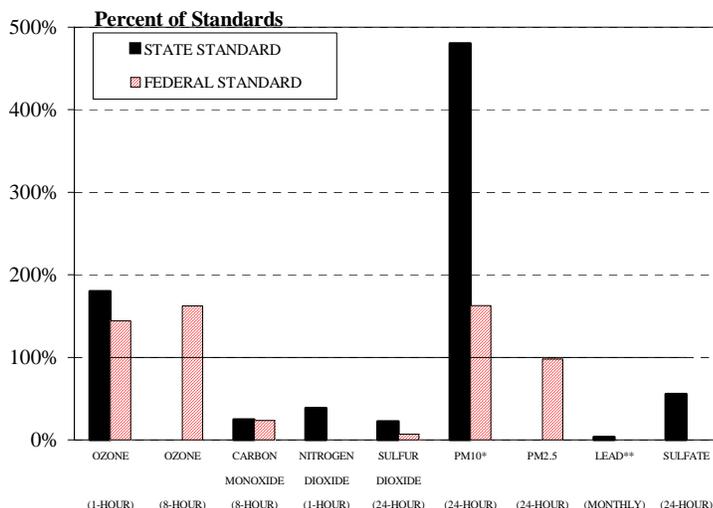
Air quality statistics in the South Coast Air Basin and the downwind desert area of Coachella Valley in the Salton Sea Air Basin for June 2001 are shown and summarized in the following figures and tables. Figure 1 compares the maximum pollutant concentrations recorded in June 2001 as percentages of the state and federal standards. Figure 2 shows January - June 2001 maximum concentrations for non-attainment pollutants in the Basin compared to the same period maximum concentrations in the previous three years.

Table 1 shows the maximum concentrations for all criteria pollutants recorded in June 2001 compared to the state and federal ambient air quality standards. It also shows the date of the maximum concentration, maximum Air Quality Index (AQI) value recorded in June for each pollutant, and the location where the maximum concentration was recorded.

Figure 3 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 during June 2001 are summarized in Table 2 (pages 4 and 5). Table 3 (pages 6-7) shows year-to-date cumulative statistics for the year 2001. The state and federal ambient air quality standards are given in Table 4.

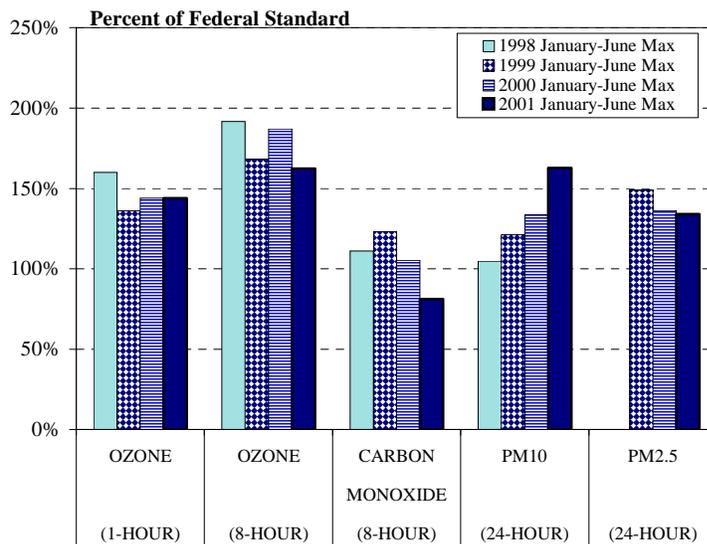
*This monthly publication satisfies the requirements for reporting on air quality in the South Coast Air Basin set by California legislation (Chapter 1301, Statutes of 1987; Health and Safety Code Section 40451(d)), and supplies similar information for the areas of the Salton Sea Desert Air Basin served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

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\* High PM10 concentration was recorded in the desert portion of Coachella Valley due to the high wind.  
 \*\* Higher lead concentrations were recorded at special monitoring sites located immediately downwind of stationary sources of lead.

**Figure 1**  
Maximum Concentrations Recorded in June 2001 as Percentages of State and Federal Standards



**Figure 2**  
Year-to-Date Maximum Concentrations in 2001 Compared to the previous Years



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

**Table 1. Maximum Concentrations and Corresponding AQIs Reported in June 2001**

Pollutant Averaging Time	Maximum Concentrations					Location
	ppm/ ug/m3	Date	% State Standard	% Federal Standard	AQI	
<b>Ozone</b>						
1-Hour	0.18	June 9	180%	144%	170	East San Gabriel Valley
8-Hour	0.138	June 9	--	162%	206	East San Gabriel Valley
<b>Carbon Monoxide</b>						
8-Hour	2.25	June 29	25%	24%	25	Metropolitan Riverside County
<b>Nitrogen Dioxide</b>						
1-Hour	0.10	June 6,18,19,21	38%	--	--	Several Locations
24-Hour	0.060	June 7	--	--	58	East San Fernando Valley
<b>Sulfur Dioxide</b>						
1-Hour	0.02	June 12,17	8%	--	--	Southwest Coastal Los Angeles County, South Coastal Los Angeles County
24-Hour	0.010	June 23	20%	7%	15	Southwest Coastal Los Angeles County
<b>Particulate (PM10)</b>						
24-Hour	245 <sup>++</sup>	June 3	480%	162%	146	Coachella Valley
<b>Particulate (PM2.5)</b>						
24-Hour	64.2	June 9	--	98%	148	Metropolitan Riverside County
<b>Sulfates</b>						
24-Hour	13.9	June 18	56%	--	--	Southwest Coastal LA County
<b>Lead*</b>						
30-Day	0.05	a)	3%	--	--	Central Los Angeles
30-Day*	0.57	a)	38%	--	--	Central Los Angeles

\*Maximum monthly average concentration recorded at special monitoring sites in the immediate vicinity of major lead sources.

a) Monthly average.

++ This high PM10 concentration recorded in the desert portion of the District was due to the high wind and may be excluded in accordance with EPA's Natural Event Policy.

## AMBIENT AIR QUALITY STANDARDS

Ambient air quality standards shown in Table 4 (page 8) represent targets for acceptable concentrations of specified pollutant in outdoor air. The Federal Clean Air Act requires EPA to set National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. Primary standards set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The Federal Clean Air Act also permits states to adopt additional or more protective air quality standards if needed. California has set standards

for certain pollutants, such as ozone and PM10, which are more protective of public health than respective NAAQS. California has also set standards for some pollutants that are not addressed by federal standards (please see Table 4).

To attain NAAQS (other than ozone, PM10 and those based on annual averages), standards are not to be exceeded more than once a year. To attain the ozone standard, the 1-hour average concentration must not exceed the federal standard more than once per year, averaged over three consecutive years. For PM10, the 24-hour concentration must not exceed the standard more than once per year, averaged over three years. To attain the federal annual PM10 standard, the annual arithmetic mean, averaged over three years, must not exceed the standard.



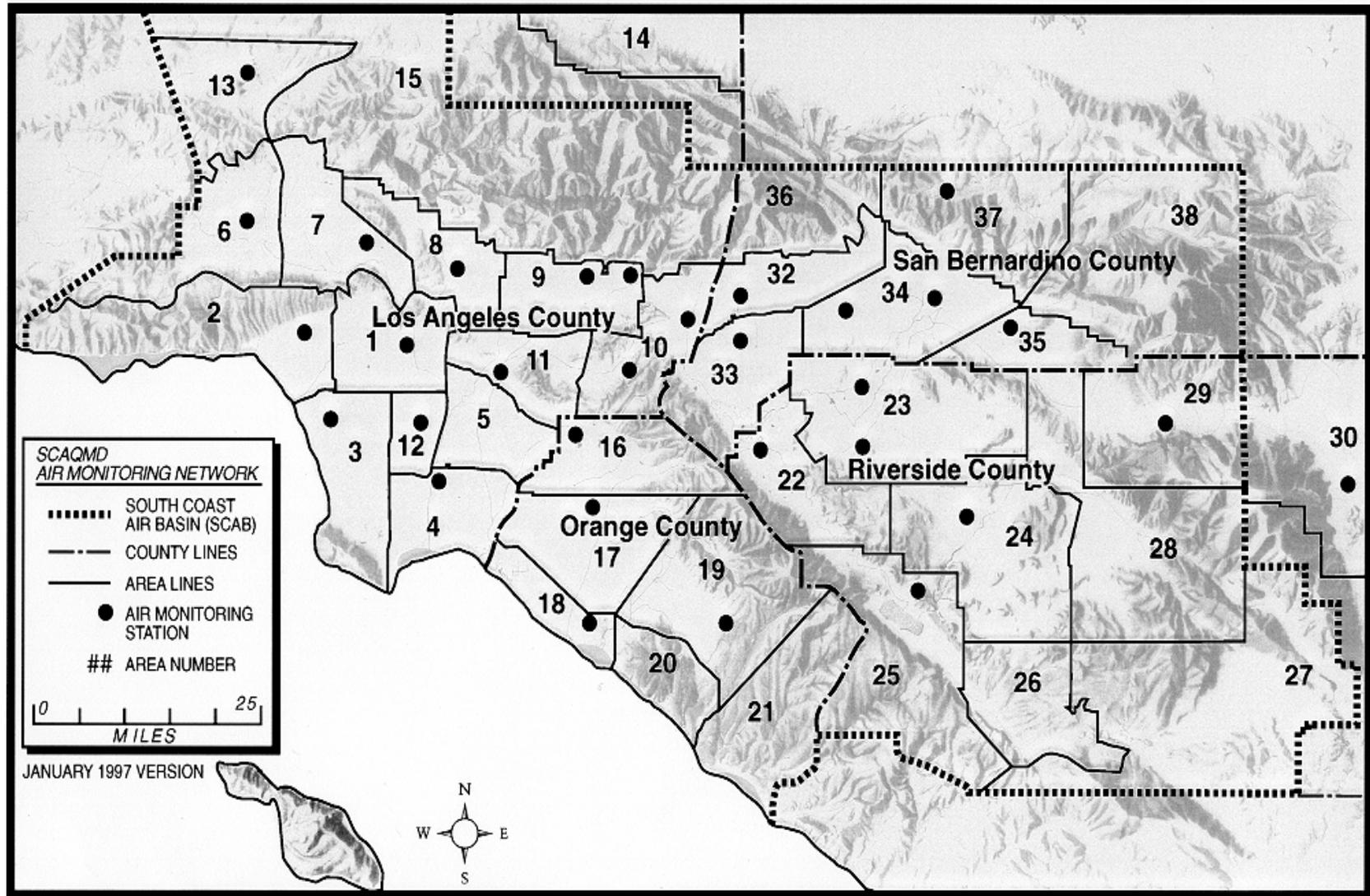


Figure 3  
South Coast Air Basin and Adjoining Areas of Salton Sea and Mojave Desert  
Air Basins and Monitoring Stations



Table 2  
June 2001  
Exceedances of Standards and Maximum Concentrations

Source/Receptor		Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
		Days	Days	Days	Max	Max	Days	Days	Max	Max	Days	Max	Max	Max		
		Exceeding State Std	Exceeding Health Advisory	Exceeding Fed Std 1-hr 8-hr	1-hr ppm	8-hr ppm	Exceeding State Std 8-hr/1-hr	Exceeding Fed Std 8-hr/1-hr	8-hr ppm	1-hr ppm	Exceeding State Std	1-hr ppm	24-hr ppm	1-hr ppm		
=====																
LOS ANGELES COUNTY																
1	Central LA	087	1	0	0	0	0.10	0.079	0/0	0/0	2.00	3	0	0.10	0.004	0.01
2	Northwest Coastal LA County	091	0	0	0	0	0.07	0.063	0/0	0/0	0.57	1	0	0.10		
3	Southwest Coastal LA County	094	0	0	0	0	0.09	0.073	0/0	0/0	1.57	2	0	0.07	0.010	0.02
4	South Coastal LA County	072	0	0	0	0	0.08	0.065	0/0	0/0	1.14	2	0	0.08	0.007	0.02
6	West San Fernando Valley	074	5	0	0	2	0.10	0.088	0/0	0/0	1.43	2	0	0.06		
-----																
7	East San Fernando Valley	069	6	0	1	2	0.13	0.096	0/0	0/0	1.57	2	0	0.10	0.002	0.01
8	West San Gabriel Valley	088	7	0	0	3	0.12	0.100	0/0	0/0	1.29	2	0	0.10		
9	East San Gabriel Valley 1	060	9	1	3	6	0.16	0.115	0/0	0/0	1.57	2	0	0.08		
9	East San Gabriel Valley 2	591	12	1	5	8	0.18	0.138	0/0	0/0	1.00	1	0	0.08		
10	Pomona/Walnut Valley	075	3	0	0	1	0.12	0.099	0/0	0/0	1.57	2	0	0.09		
11	South San Gabriel Valley	085	2	0	0	1	0.12	0.088	0/0	0/0	1.57	2	0	0.09		
12	South Central LA County 1	084	0	0	0	0	0.07	0.058	0/0	0/0	2.00	3	0	0.08		
12	South Central LA County 2	801														
13	Santa Clarita Valley	090	9	2	0	7	0.14	0.113								
-----																
ORANGE COUNTY																
16	North Orange County	3177	1	0	0	1	0.10	0.091	0/0	0/0	1.14	2	0	0.06		
17	Central Orange County	3176	0	0	0	0	0.05	0.048	0/0	0/0	1.00	1	0	0.03		
18	North Coastal Orange County	3195	0	0	0	0	0.08	0.070	0/0	0/0	0.57	1	0	0.03	0.002	0.01
19	Saddleback Valley	3812	0	0	0	0	0.09	0.075	0/0	0/0	0.43	1				
-----																
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	9	0	1	9	0.13	0.120	0/0	0/0	1.43	3	0	0.07	0.001	0.01
23	Metropolitan Riverside County 2	4146							0/0	0/0	2.25	3				
24	Perris Valley	4149	14	1	3	12	0.15	0.136								
-----																
25	Lake Elsinore	4158	11	0	3	10	0.13	0.115	0/0	0/0	1.00	1	0	0.05		
29	Banning/San Gorgonio Pass	4164	13	1	5	14	0.15	0.131					0	0.08		
30	Coachella Valley 1**	4137	13	0	2	13	0.13	0.115	0/0	0/0	1.00	1	0	0.04		
30	Coachella Valley 2**	4157	8	0	0	10	0.11	0.100								
-----																
SAN BERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	12	1	4	8	0.15	0.130	0/0	0/0	1.00	1	0	0.09		
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	11	1	3	10	0.16	0.136					0	0.08	0.002	0.01
34	Central San Bernardino Valley 2	5203	11	1	4	10	0.15	0.130	0/0	0/0	1.00	1	0	0.07		
35	East San Bernardino Valley	5204	15	1	4	13	0.15	0.134								
37	Central San Bernardino Mountains	5181	22	3	7	20	0.16	0.133								
-----																
District maximum			22	3	7	20	0.18	0.138	0/0	0/0	2.25	3	0	0.10	0.010	0.02
=====																

\*\* Salton Sea air basin

Table 2 - continued  
June 2001  
Exceedances of Standards and Maximum Concentrations

Source/Receptor		PM10				Lead***		Sulfate		PM2.5			
		No. (%) Days Exceeding State Standard	NO. (%) Days Exceeding Federal Standard	Number Days Sampled	Max 24-hr Average	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Maximum 24-hr Average ug/m3	Number Days Sampled	Number days Exceeding Federal Standard	Maximum 24-hr Conc. ug/m3	
LOS ANGELES COUNTY													
1	Central LA	087	2(40%)	0(0%)	5	66	4	0.05	5	11.7	28	0	42.3
2	Northwest Coastal LA County	091							5	11.5			
3	Southwest Coastal LA County	094	1(20%)	0(0%)	5	60	5	0.02	5	13.9			
4	South Coastal LA County	072	0(0%)	0(0%)	5	45	5	0.03	5	11.9	28	0	35.6
6	West San Fernando Valley	074									8	0	27.9
7	East San Fernando Valley	069	1(20%)	0(0%)	5	63					8	0	40.5
8	West San Gabriel Valley	088							5	8.9	10	0	35.2
9	East San Gabriel Valley 1	060	3(60%)	0(0%)	5	77			5	10.9	26	0	40.7
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					5	0.03	5	10.2	10	0	33.5
12	South Central LA County 1	084					5	0.04	5	13.0	10	0	33.7
12	South Central LA County 2	801											
13	Santa Clarita Valley	090	1(20%)	0(0%)	5	51							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176									4	0	24.2
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	0(0%)	0(0%)	5	36					6	0	20.2
RIVERSIDE COUNTY													
22	Norco/Corona	4155	0(0%)	0(0%)	3	37							
23	Metropolitan Riverside County 1	4144	10(91%)	0(0%)	11	100	5	0.03	5	8.3	25	1	64.2
23	Metropolitan Riverside County 2	4146					2	0.03	2	8.5	8	0	41.7
24	Perris Valley	4149	2(40%)	0(0%)	5	60							
25	Lake Elsinore	4158											
29	Banning/San Geronio Pass	4164	1(33%)	0(0%)	3	67							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	2	33					7	0	17.4
30	Coachella Valley 2**	4157	9(100%)	2(22%)	9	245++					10	0	18.3
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					5	0.03	5	7.8			
33	Southwest San Bernardino Valley	5817	2(40%)	0(0%)	5	81					10	0	42.9
34	Central San Bernardino Valley 1	5197	4(80%)	0(0%)	5	80			5	9.1	8	0	41.3
34	Central San Bernardino Valley 2	5203	4(80%)	0(0%)	5	89	5	0.04	5	8.7	10	0	47.2
35	East San Bernardino Valley	5204	4(80%)	0(0%)	5	93							
37	Central San Bernardino Mountains	5181	0(0%)	0(0%)	4	43							
District maximum			10	2		245++		0.05		13.9		1	64.2

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in June 2001 and the maximum monthly average was 0.57 ug/m3.

++ This high PM10 concentration was recorded in the desert portion of the Salton Sea Air Basin. The data for this sample may be excluded from the data according to the EPA's Natural Events Policy.

Table 3  
January - June 2001  
Year-to-Date Total Exceedances of Standards and Maximum Concentrations

Source/Receptor		Ozone						Carbon Monoxide				Nitrogen Dioxide		Sulfur Dioxide		
		Days	Days	Days	Max	Max	Days	Days	Max	Max	Days	Max	Max	Max		
		Exceeding State Std	Exceeding Health Advisory	Exceeding Fed Std 1-hr 8-hr	1-hr ppm	8-hr ppm	Exceeding State Std 8-hr/1-hr	Exceeding Fed Std 8-hr/1-hr	8-hr ppm	1-hr ppm	Exceeding State Std	1-hr ppm	24-hr ppm	1-hr ppm		
LOS ANGELES COUNTY																
1	Central LA	087	2	0	0	0	0.10	0.084	0/0	0/0	4.29	6	0	0.13	0.010	0.01
2	Northwest Coastal LA County	091	1	0	0	0	0.10	0.080	0/0	0/0	3.00	4	0	0.10		
3	Southwest Coastal LA County	094	1	0	0	0	0.10	0.080	0/0	0/0	5.00	7	0	0.10	0.012	0.04
4	South Coastal LA County	072	0	0	0	0	0.09	0.070	0/0	0/0	3.86	6	0	0.11	0.012	0.03
6	West San Fernando Valley	074	7	0	0	2	0.10	0.088	0/0	0/0	6.00	7	0	0.08		
7	East San Fernando Valley	069	7	0	1	3	0.13	0.096	0/0	0/0	4.71	6	0*	0.12	0.002	0.01
8	West San Gabriel Valley	088	10	0	0	4	0.12	0.100	1/1	1/1	5.00	7	0	0.13		
9	East San Gabriel Valley 1	060	12	1	3	8	0.16	0.115	0/0	0/0	2.29	3	0	0.10		
9	East San Gabriel Valley 2	591	23	1	5	14	0.18	0.138	0/0	0/0	2.25	3	0	0.08		
10	Pomona/Walnut Valley	075	4	0	0	1	0.12	0.099	0/0	0/0	3.29	5	0	0.11		
11	South San Gabriel Valley	085	2	0	0	1	0.12	0.088	0/0	0/0	4.00	6	0	0.10		
12	South Central LA County 1	084	0	0	0	0	0.07	0.058	0/0	0/0	7.71	12	0	0.09		
12	South Central LA County 2	801														
13	Santa Clarita Valley	090	18	3	0	10	0.14	0.088	0/0	0/0	3.14	6	0	0.08		
ORANGE COUNTY																
16	North Orange County	3177	1	0	0	1	0.10	0.091	0/0	0/0	4.71	11	0	0.09		
17	Central Orange County	3176	0*	0*	0*	0*	0.08	0.068	0/0	0/0	4.71	8	0	0.09		
18	North Coastal Orange County	3195	0	0	0	0	0.08	0.070	0/0	0/0	4.57	6	0	0.08	0.004	0.01
19	Saddleback Valley	3812	2	0	0	0	0.10	0.084	0/0	0/0	2.38	3				
RIVERSIDE COUNTY																
22	Norco/Corona	4155														
23	Metropolitan Riverside County 1	4144	18	0	1	17	0.13	0.120	0/0	0/0	2.71	4	0	0.15	0.002	0.02
23	Metropolitan Riverside County 2	4146							0/0	0/0	4.50	6				
24	Perris Valley	4149	34	2	6	29	0.15	0.136								
25	Lake Elsinore	4158	25	0	5	21	0.13	0.115	0/0	0/0	1.29	2	0	0.05		
29	Banning/San Gorgonio Pass	4164	25	1	6	26	0.15	0.131					0	0.24		
30	Coachella Valley 1**	4137	29	0	3	28	0.13	0.115	0/0	0/0	1.38	2	0*	0.05		
30	Coachella Valley 2**	4157	14	0	0	20	0.11	0.100								
SAN BERNARDINO COUNTY																
32	Northwest San Bernardino Valley	5175	22	1	4	14	0.15	0.130	0/0	0/0	1.75	2	0	0.10		
33	Southwest San Bernardino Valley	5817														
34	Central San Bernardino Valley 1	5197	19	1	4	14	0.16	0.136					0	0.11	0.010	0.01*
34	Central San Bernardino Valley 2	5203	20	1	5	17	0.15	0.130	0/0	0/0	3.14	4	0*	0.09		
35	East San Bernardino Valley	5204	30*	1*	6*	23*	0.15	0.134								
37	Central San Bernardino Mountains	5181	42	4	11	39	0.16	0.133								
District maximum			42	4	11	39	0.18	0.138	0/0	0/0	7.71	12	0	0.24	0.012	0.04

\* = incomplete data

\*\* Salton Sea air basin

Table 3 - continued  
 January - June 2001  
 Year-to-Date Total Exceedances of Standards and Maximum Concentrations

Source/Receptor		PM10				Lead**		Sulfate		PM2.5			
		No. (%) Days Exceeding State Standard	NO. (%) Days Exceeding Federal Standard	Number Days Sampled	Max 24-hr Average	Number Days Sampled	Monthly Average ug/m3	Number Days Sampled	Maximum 24-hr Average ug/m3	Number Days Sampled	Number days Exceeding Federal Standard	Maximum 24-hr Conc. ug/m3	
LOS ANGELES COUNTY													
1	Central LA	087	12(39%)	0(0%)	31	82	30	0.06	31	15.9	170	1	66.3
2	Northwest Coastal LA County	091							30	15.6			
3	Southwest Coastal LA County	094	6(19%)	0(0%)	31	75	31	0.04	31	20.6			
4	South Coastal LA County	072	6(19%)	0(0%)	31	91	33	0.05	35	14.5	151	0	52.2
6	West San Fernando Valley	074									52	0	56.9
7	East San Fernando Valley	069	7(23%)	0(0%)	31	86					56	2	69.4
8	West San Gabriel Valley	088							31	13.4	58	0	55.3
9	East San Gabriel Valley 1	060	11(35%)	0(0%)	31	91			29	14.1	153*	0*	61.7*
9	East San Gabriel Valley 2	591											
10	Pomona/Walnut Valley	075											
11	South San Gabriel Valley	085					31	0.05	31	12.1	40*	1*	77.3*
12	South Central LA County 1	084					29	0.23	29	15.4	58	1	73.1
12	South Central LA County 2	801											
13	Santa Clarita Valley	090	2(6%)	0(0%)	31	53							
ORANGE COUNTY													
16	North Orange County	3177											
17	Central Orange County	3176	6(23%)*	0(0%)*	26*	93*					143*	0*	55.0*
18	North Coastal Orange County	3195											
19	Saddleback Valley	3812	2(7%)	0(0%)	29	55					54*	0*	40.3*
RIVERSIDE COUNTY													
22	Norco/Corona	4155	9(36%)	0(0%)	25	109							
23	Metropolitan Riverside County 1	4144	34(57%)	0(0%)	60	107	27	0.04	27	10.0	161	9	87.9
23	Metropolitan Riverside County 2	4146					28	0.03	28	9.2	55	3	65.8
24	Perris Valley	4149	7(23%)	0(0%)	30	79							
25	Lake Elsinore	4158											
29	Banning/San Gorgonio Pass	4164	1(4%)	0(0%)	27	67							
30	Coachella Valley 1**	4137	0(0%)	0(0%)	25	43					56	0	44.7
30	Coachella Valley 2**	4157	22(39%)	2(4%)	57	245++					57	0	32.4
SAN BERNARDINO COUNTY													
32	Northwest San Bernardino Valley	5175					30	0.05	30	9.9			
33	Southwest San Bernardino Valley	5817	14(44%)	1(3%)	32	166					60	0	63.1
34	Central San Bernardino Valley 1	5197	16(52%)	0(0%)	31	97			30	10.3	57	1	74.8
34	Central San Bernardino Valley 2	5203	13(43%)	0(0%)	30	95	25	0.05	25	8.7	59	3	78.5
35	East San Bernardino Valley	5204	12(41%)	0(0%)	29	102							
37	Central San Bernardino Mountains	5181	1(3%)	0(0%)	30	55							
District maximum		34	2			245++		0.23		20.6		9	87.9

\* = incomplete data

\*\* Salton Sea air basin

\*\*\*Special monitoring of lead near stationary sources was carried out in 2001 and the maximum monthly average was 0.57 ug/m3.

++ This high PM10 concentration was recorded in the desert portion of the Salton Sea Air Basin. The data for this sample may be excluded from the data according to the EPA's Natural Events Policy.



**Table 4  
AMBIENT AIR QUALITY STANDARDS**

AIR POLLUTANT	CALIFORNIA		FEDERAL		
	CONCENTRATION	DISTRICT METHOD	PRIMARY (>)	SECONDARY (>)	METHOD <sup>a)</sup>
<b>Ozone</b> <sup>b)</sup>	0.09 ppm, 1-hour average >	U.V. Photometry	0.12 ppm, 1-hour average 0.08 ppm, 8-hour average <sup>b)</sup>	Same as Primary Standrd	Chemiluminescence
<b>Carbon Monoxide</b>	9.0 ppm, 8-hour average > <sup>c)</sup> 20 ppm, 1-hour average >	Gas Correlation	9 ppm, 8-hour average <sup>d)</sup> 35 ppm, 1-hour average	None	Non-dispersive Infra-Red Spectrophotometry
<b>Nitrogen Dioxide</b>	0.25 ppm, 1-hour average > <sup>e)</sup>	Gas Phase Chemiluminescence	0.053 ppm, annual average <sup>f)</sup>	Same as Primary Standrd	Gas Phase Chemiluminescence
<b>Sulfur Dioxide</b>	0.04 ppm, 24-hour average > <sup>g)</sup> 0.25 ppm, 1-hour average > <sup>h)</sup>	Ultraviolet PulseFluorescence	0.03 ppm, annual average 0.14 ppm, 24-hour average	0.50 ppm, 3-hour average	Para-roaniline
<b>Suspended Particulate Matter (PM10)</b>	30 µg/m <sup>3</sup> , annual geometric mean > 50 µg/m <sup>3</sup> , 24-hour average > <sup>i)</sup>	Size Segregation Inlet High Volume Sampling	50 µg/m <sup>3</sup> , annual arithmetic mean 150 µg/m <sup>3</sup> , 24-hour average <sup>j)</sup>	Same as Primary Standrd	Inertial Separation and Gravimetric Analysis
<b>Suspended Particulate Matter (PM2.5)</b> <sup>k)</sup>			15 µg/m <sup>3</sup> , annual arithmetic mean <sup>k)</sup> 65 µg/m <sup>3</sup> , 24-hour average <sup>k)</sup>	Same as Primary Standrd	Inertial Separation and Gravimetric Analysis
<b>Lead</b>	1.5 µg/m <sup>3</sup> , 30-day average >=	High Vol. Sampling Atomic Absorption	1.5 µg/m <sup>3</sup> , calendar quarter	Same as Primary Standrd	High Vol. Sampling Atomic Absorption
<b>Sulfates</b>	25 µg/m <sup>3</sup> , 24-hour average >=	High Vol. Sampling Ion Chouromatography	<b>NO FEDERAL STANDARDS</b>		
<b>Hydrogen Sulfide</b>	0.03 ppm, 1-hour average >=	Cadmium Hydroxide Stractan			
<b>Vinyl Chloride</b>	0.010 ppm, 24-hour average >=	Gas Chouromatography			
<b>Visibility Reducing Particles</b>	In sufficient amount to give an extinction coefficient > 0.23 inverse kilometers (visual range less than 10 miles), with relative humidity <70%, 8-hour average (10am-6pm, PST) <sup>l)</sup> .	Nephelometry and AISI Tape Sampler (COH)			

a) Reference method as described by the federal government. An equivalent method of measurement may be used as approved by the federal government.

b) In September 1997, a new federal 8-hour average standard was proposed by EPA. A 1999 federal court ruling blocked the implementation of this standard.

The status of this standard is pending the EPA's appeal.

c) Effective December 15, 1982. The previous standards were 10 ppm, 12-hour average and 40 ppm, 1-hour average.

d) Effective September 13, 1985, standard changed from >10 µg/m<sup>3</sup> (>=9.3 ppm) to > 9 ppm (>=9.5 ppm).

e) Effective March 9, 1987, standard changed from >=0.25 ppm to > 0.25 ppm.

f) Effective July 1, 1985, standard changed from > 100 µg/m<sup>3</sup> (>0.0532 ppm) to > 0.053 ppm (>= 0.0535 ppm).

g) Effective July 29, 1992. The previous standard was >= 0.05 ppm, 24-hour average with ozone >=0.1 ppm, 1-hour average or TSP >=100 µg/m<sup>3</sup>, 24-hour average.

h) Effective October 5, 1984. The previous standard was 0.5 ppm, 1-hour average.

i) Effective August 19, 1983. The previous standards were 60 µg/m<sup>3</sup> TSP, annual geometric mean, and 100 µg/m<sup>3</sup> TSP, 24-hour average.

j) Effective July 1, 1987. The previous standards were :

Primary - annual geometric mean TSP > 75 µg/m<sup>3</sup>, and 24 hour average TSP > 260 µg/m<sup>3</sup>.

Secondary - annual geometric mean TSP > 60 µg/m<sup>3</sup>, and 24-hour average TSP > 150 µg/m<sup>3</sup>.

k) In September 1997, new federal standards were proposed for PM2.5. There were no previous standards for PM2.5. A 1999 federal court ruling blocked the implementation of these standards.

l) Effective October 18, 1989. The previous standard was "In sufficient amount to reduce the prevailing visibility to less than 10 miles at relative humidity less than 70%, 1 observation", and was based on human observation rather than instrumental measurement.

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