

**2003 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2003**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide					Ozone								Nitrogen Dioxide			Sulfur Dioxide			
		No. of Days	Max. Conc. in ppm	Max. Conc. in ppm	No. Days Standard Exceeded <sup>a)</sup>		No. of Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. ppm	No. Days Standard Exceeded				No. of Days of Data	Max. Conc. in ppm	Annual Average <sup>b)</sup> Conc. ppm	No. of Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	
					Federal ≥ 9.5 ppm	State > 9.0 ppm					Health Advisory ≥ 0.15 ppm	Federal > 0.12 ppm	Federal > 0.08 ppm	State > 0.09 ppm							
<b>LOS ANGELES COUNTY</b>																					
1	Central LA	087	365	6	4.6	0	0	365	0.152	0.088	0.083	1	1	2	11	361	0.16	0.0338	349	0.05*	0.006*
2	Northwest Coastal LA County	091	365	5	2.7	0	0	365	0.134	0.105	0.083	0	1	1	11	352	0.12	0.0231	--	--	--
3	Southwest Coastal LA County	094	361	7	5.0	0	0	365	0.110	0.078	0.073	0	0	0	2	363	0.12	0.0238	365	0.03	0.006
4	South Coastal LA County	072	363	6	4.7	0	0	365	0.099	0.071	0.063	0	0	0	1	341	0.14*	0.0288*	361	0.03	0.008
6	West San Fernando Valley	074	365	6	4.1	0	0	365	0.179	0.129	0.119	1	14	49	68	364	0.13*	0.0260*	--	--	--
7	East San Fernando Valley	069	349	5*	4.7*	0*	0*	341	0.134*	0.108*	0.097*	0*	4*	20*	37*	344	0.14*	0.0356*	338	0.01*	0.005*
8	West San Gabriel Valley	088	365	5	3.8	0	0	365	0.152	0.108	0.103	1	7	28	44	356	0.14	0.0322	--	--	--
9	East San Gabriel Valley 1	060	365	5	2.6	0	0	365	0.150	0.124	0.107	1	11	21	40	347	0.12*	0.0296*	--	--	--
9	East San Gabriel Valley 2	591	357	3	2.1	0	0	365	0.162	0.134	0.123	7	22	41	61	361	0.12	0.0271	--	--	--
10	Pomona/Walnut Valley	075	365	6	4.4	0	0	365	0.161	0.123	0.109	3	13	24	39	365	0.12	0.0352	--	--	--
11	South San Gabriel Valley	085	365	5	4.0	0	0	364	0.128	0.097	0.084	0	1	2	18	360	0.14	0.0353	--	--	--
12	South Central LA County	084	362	12	7.3	0	0	361	0.081	0.063	0.059	0	0	0	0	356	0.13	0.0312	--	--	--
13	Santa Clarita Valley	090	363	3	1.7	0	0	363	0.194	0.152	0.137	15	35	69	89	363	0.12	0.0221	--	--	--
<b>ORANGE COUNTY</b>																					
16	North Orange County	3177	365	8	4.1	0	0	365	0.165	0.087	0.082	1	1	2	7	361	0.16	0.0284	--	--	--
17	Central Orange County	3176	365	6	3.9	0	0	365	0.136	0.087	0.082	0	2	1	11	362	0.13	0.0240	--	--	--
18	North Coastal Orange County	3195	365	7	5.8	0	0	364	0.107	0.088	0.080	0	0	1	4	362	0.11	0.0199	354	0.02	0.012
19	Saddleback Valley	3812	362	3	1.8	0	0	362	0.153	0.105	0.097	1	4	8	16	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																					
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	365	5	3.7	0	0	365	0.169	0.140	0.123	4	18	62	80	360	0.09	0.0217	363	0.02	0.012
23	Metropolitan Riverside County 2	4146	360	5	3.4	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	Perris Valley	4149	--	--	--	--	--	357	0.155	0.121	0.119	1	7	47	67	--	--	--	--	--	--
25	Lake Elsinore	4158	345	4*	1.3*	0*	0*	345	0.154*	0.137*	0.113*	2*	7*	35*	50*	328	0.08*	0.0182*	--	--	--
29	Banning Airport	4164	--	--	--	--	--	365	0.166	0.146	0.127	3	27	63	75	346	0.09*	0.0193*	--	--	--
30	Coachella Valley 1**	4137	339	3*	1.3*	0*	0*	359	0.141	0.111	0.108	0	4	44	54	347	0.06*	0.0173*	--	--	--
30	Coachella Valley 2**	4157	--	--	--	--	--	365	0.123	0.105	0.102	0	0	19	24	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																					
32	Northwest San Bernardino Valley	5175	363	4	2.9	0	0	365	0.155	0.134	0.116	2	15	35	48	363	0.11	0.0349	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	--	--	--	--	--	351	0.176	0.148	0.134	7	26	48	65	355	0.12	0.0307	361	0.01	0.004
34	Central San Bernardino Valley 2	5203	365	5	4.6	0	0	358	0.160	0.137	0.123	4	19	45	59	362	0.10	0.0270	--	--	--
35	East San Bernardino Valley	5204	--	--	--	--	--	365	0.174	0.153	0.138	12	38	72	91	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	--	--	341	0.163*	0.142*	0.130*	6*	34*	74*	84*	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>				12	7.3	0	0		0.194	0.153	0.138	15	38	74	91		0.16	0.0356		0.05	0.012
<b>SOUTH COAST AIR BASIN</b>				12	7.3	0	0		0.194	0.153	0.138	36	68	119	133		0.16	0.0356		0.05	0.012

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.

b) - The state standard is 1-hour average NO<sub>2</sub> > 0.25 ppm. The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. No location exceeded the standards.

c) - The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm and 24-hour average SO<sub>2</sub> > 0.04 ppm. No location exceeded state standards. The federal standards are annual arithmetic mean SO<sub>2</sub> > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. SO<sub>2</sub> concentrations were well below the federal standards.



**South Coast  
Air Quality Management District**  
21865 Copley Drive  
Diamond Bar, CA 91765-4182  
www.aqmd.gov

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/telemweb/areamap.aspx>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**2003 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location		Station No.		Suspended Particulates PM10 <sup>d)</sup>					Suspended Particulates PM2.5 <sup>e)</sup>				Particulates TSP <sup>f)</sup>		Lead <sup>f)</sup>		Sulfate <sup>f)</sup>	
				No. (%) Samples Exceeding Standard					No. (%) Samples Exceeding Standard				Max. Annual Average	Max. Monthly Average	Max. Quarterly Average	No. (%) Samples Exceeding Standard		
				No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	Federal > 150 µg/m <sup>3</sup> 24-hour	State > 50 µg/m <sup>3</sup> 24-hour	Annual Average <sup>g)</sup> AAM µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	Federal > 65 µg/m <sup>3</sup> 24-hour	Annual Average <sup>h)</sup> AAM µg/m <sup>3</sup>				Max. Annual Average µg/m <sup>3</sup>	Max. Monthly Average µg/m <sup>3</sup>	Max. Quarterly Average µg/m <sup>3</sup>
<b>LOS ANGELES COUNTY</b>																		
1	Central LA	087	61	81	0	6(9.8)	34.6	330	83.7	5(1.5)	21.3	61	157	73.5	0.15	0.15	14.6	0
2	Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	59	114	49.4	--	--	14.3	0
3	Southwest Coastal LA County	094	61	58	0	3(4.9)	29.7	--	--	--	--	61	122	56.7	0.17	0.10	16.4	0
4	South Coastal LA County	072	61	63	0	4(6.6)	32.8	324	115.2	3(0.9)	18.0	64	159	63.9	0.10	0.05	17.8	0
6	West San Fernando Valley	074	--	--	--	--	--	115	47.5	0	16.4	--	--	--	--	--	--	--
7	East San Fernando Valley	069	50	81*	0*	7(14.0)*	38.1*	92	120.6	1(1.1)	20.9	--	--	--	--	--	--	--
8	West San Gabriel Valley	088	--	--	--	--	--	110	89.0	1(0.9)	18.6	59	111	54.3	--	--	12.7	0
9	East San Gabriel Valley 1	060	60	119	0	21(35.0)	44.4	314	121.2	3(1.0)	19.2	55	176	83.9	--	--	11.7	0
9	East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	085	--	--	--	--	--	111	90.3	1(0.9)	20.6	60	160	75.4	0.05	0.04	14.4	0
12	South Central LA County	084	--	--	--	--	--	117	54.8	0	20.2	60	449	105.2	0.04	0.04	14.9	0
13	Santa Clarita Valley	090	61	72	0	10(16.4)	31.8	--	--	--	--	--	--	--	--	--	--	--
<b>ORANGE COUNTY</b>																		
16	North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	3176	61	96	0	6(9.8)	32.7	340	115.5	3(0.9)	17.3	--	--	--	--	--	--	--
18	North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	3812	57	64	0	2(3.5)	26.7	109	50.6	0	13.1	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																		
22	Norco/Corona	4155	58	116	0	15(25.9)	40.5	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	109	164	2(1.8)	62(56.9)	56.9	350	104.3	8(2.3)	24.9	58	283	105.6	0.02	0.02	10.1	0
23	Metropolitan Riverside County 2	4146	--	--	--	--	--	116	73.3	1(0.9)	22.6	60	225	85.0	0.02	0.01	10.0	0
24	Perris Valley	4149	58	142	0	19(32.8)	43.9	--	--	--	--	--	--	--	--	--	--	--
25	Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Banning Airport	4164	60	79	0	9(15.0)	29.0	--	--	--	--	--	--	--	--	--	--	--
30	Coachella Valley 1**	4137	60	108	0	4(6.7)	27.1	112	21.2	0	9.0	--	--	--	--	--	--	--
30	Coachella Valley 2**	4157	112	124+	0+	47(42.0)+	50.2+	118	26.8	0	11.4	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																		
32	Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	60	269	69.6	0.02	0.02	11.8	0
33	Southwest San Bernardino Valley	5817	62	149	0	18(29.0)	42.9	118	88.9	3(2.5)	23.8	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	50	101*	0*	27(54.0)*	47.2*	111	98.1	1(0.9)	21.8	59	335	119.8	--	--	11.9	0
34	Central San Bernardino Valley 2	5203	59	98	0	23(39.0)	44.9	119	73.9	1(0.8)	22.2	60	242	97.8	0.14	0.08	12.1	0
35	East San Bernardino Valley	5204	58	92	0	15(25.9)	37.0	--	--	--	--	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	50	47*	0*	0*	25.6*	--	--	--	--	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	55	35.0	0	10.5	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>			164	2	62	56.9		121.2	8	24.9		449	119.8	0.17	0.15	17.8	0	
<b>SOUTH COAST AIR BASIN</b>			164	2	69	56.9		121.2	14	24.9		449	119.8	0.17	0.15	17.8	0	

µg/m<sup>3</sup> - Micrograms per cubic meter of air. AAM - Annual Arithmetic Mean --- Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

d) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

e) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

f) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

g) - Federal PM10 standard is annual average (AAM) > 50 µg/m<sup>3</sup>. State standard is annual average (AAM) > 20 µg/m<sup>3</sup> (changed from AGM > 30 µg/m<sup>3</sup>, effective July 5, 2003).

h) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m<sup>3</sup>. State standard is annual average (AAM) > 12 µg/m<sup>3</sup> (new standard, established July 5, 2003).

i) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>, and state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. No location exceeded lead standards.

Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 2003. The maximum monthly average concentration was 0.35 µg/m<sup>3</sup>, and the maximum quarterly average concentration was 0.29 µg/m<sup>3</sup>, both recorded in Central Los Angeles.

+ - The data for five samples collected on high-wind days (178 µg/m<sup>3</sup> on 1/6/03, 132 µg/m<sup>3</sup> on 2/2/03, 227 µg/m<sup>3</sup> on 5/15/03, 148 µg/m<sup>3</sup> on 6/20/03 and 309 µg/m<sup>3</sup> on 6/23/03) were excluded in accordance with EPA's Natural Events Policy.



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