

**2002 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2002**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide					Ozone								Nitrogen Dioxide				Sulfur Dioxide			
		No. Days Standard Exceeded <sup>a)</sup>					No. Days Standard Exceeded								No. Days Standard Exceeded Average Compared to Federal <sup>b)</sup>				Max. Conc.			
		Max. No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Federal <u>≥ 9.5</u> ppm	State <u>&gt; 9.0</u> ppm	Max. No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. ppm	Health Advisory <u>≥ 0.15</u> ppm	Federal <u>&gt; 0.12</u> ppm	State <u>&gt; 0.08</u> ppm	State <u>&gt; 0.09</u> ppm	Max. No. Days of Data	Max. Conc. in ppm	State <u>&gt; 0.25</u> ppm	Average Standard in AAM ppm	Max. No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	
<b>LOS ANGELES COUNTY</b>																						
1	Central LA	087	360	5	4.0	0	0	365	0.122	0.080	0.079	0	0	0	8	363	0.14	0	0.0327	365	0.02	0.016
2	Northwest Coastal LA County	091	365	4	2.7	0	0	365	0.118	0.078	0.074	0	0	0	1	360	0.11	0	0.0249	--	--	--
3	Southwest Coastal LA County	094	363	7	6.1	0	0	357	0.088	0.073	0.066	0	0	0	0	315*	0.10*	0	0.0244*	360	0.07	0.007
4	South Coastal LA County	072	365	6	4.6	0	0	365	0.084	0.065	0.060	0	0	0	0	350	0.13	0	0.0298	365	0.03	0.008
6	West San Fernando Valley	074	365	6	4.8	0	0	365	0.152	0.122	0.113	1	9	27	42	362	0.09	0	0.0248	--	--	--
7	East San Fernando Valley	069	365	6	4.6	0	0	365	0.128	0.097	0.091	0	1	6	17	362	0.26	1	0.0402	363	0.01	0.007
8	West San Gabriel Valley	088	365	6	4.0	0	0	365	0.137	0.103	0.096	0	3	10	23	365	0.15	0	0.0335	--	--	--
9	East San Gabriel Valley 1	060	365	4	2.4	0	0	365	0.136	0.102	0.098	0	5	12	26	363	0.12	0	0.0336	--	--	--
9	East San Gabriel Valley 2	591	365	5	2.3	0	0	365	0.152	0.114	0.111	1	12	23	45	362	0.10	0	0.0272	--	--	--
10	Pomona/Walnut Valley	075	365	6	3.3	0	0	365	0.150	0.112	0.100	1	5	15	28	365	0.11	0	0.0365	--	--	--
11	South San Gabriel Valley	085	365	5	4.0	0	0	365	0.111	0.079	0.074	0	0	0	3	362	0.12	0	0.0344	--	--	--
12	South Central LA County	084	363	16	10.1	1	1	364	0.072	0.053	0.050	0	0	0	0	362	0.14	0	0.0357	--	--	--
13	Santa Clarita Valley	090	363	3	1.9	0	0	362	0.169	0.145	0.131	8	32	56	81	355	0.10	0	0.0200	--	--	--
<b>ORANGE COUNTY</b>																						
16	North Orange County	3177	365	10	4.4	0	0	365	0.121	0.079	0.073	0	0	0	3	335	0.12	0	0.0256	--	--	--
17	Central Orange County	3176	365	7	5.4	0	0	365	0.103	0.079	0.070	0	0	0	3	358	0.10	0	0.0244	--	--	--
18	North Coastal Orange County	3195	357	5	4.3	0	0	365	0.087	0.071	0.066	0	0	0	0	364	0.11	0	0.0187	365	0.03	0.016
19	Saddleback Valley	3812	365	3	3.6	0	0	365	0.136	0.095	0.081	0	2	2	9	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																						
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	358	8	3.0	0	0	358	0.155	0.124	0.111	1	12	38	56	338	0.10	0	0.0237	351	0.02	0.002
23	Metropolitan Riverside County 2	4146	361	7	3.9	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	Perris Valley	4149	--	--	--	--	--	365	0.147	0.117	0.107	1	4	41	59	--	--	--	--	--	--	--
25	Lake Elsinore	4158	365	3	2.0	0	0	365	0.139	0.114	0.104	0	6	44	52	364	0.07	0	0.0173	--	--	--
29	Banning Airport	4164	--	--	--	--	--	365	0.160	0.131	0.113	2	13	52	64	364	0.15	0	0.0199	--	--	--
30	Coachella Valley 1**	4137	363	2	1.2	0	0	365	0.136	0.127	0.110	0	2	48	49	356	0.10	0	0.0172	--	--	--
30	Coachella Valley 2**	4157	--	--	--	--	--	365	0.114	0.111	0.096	0	0	16	24	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																						
32	Northwest San Bernardino Valley	5175	363	4	1.6	0	0	363	0.139	0.118	0.106	0	5	19	36	359	0.12	0	0.0369	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	--	--	--	--	--	335	0.159	0.124	0.115	2	8	22	37	303*	0.12*	0	0.0334*	329	0.03*	0.010*
34	Central San Bernardino Valley 2	5203	359	5	3.3	0	0	359	0.147	0.113	0.106	1	6	30	43	345	0.11	0	0.0296	--	--	--
35	East San Bernardino Valley	5204	--	--	--	--	--	365	0.158	0.123	0.119	2	23	47	66	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	--	--	365	0.161	0.139	0.132	3	22	82	91	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM			16	10.1	1	1		0.169	0.145	0.132	8	32	82	91		0.26	1	0.0402		0.07	0.016	
SOUTH COAST AIR BASIN			16	10.1	1	1		0.169	0.145	0.132	18	49	103	118		0.26	1	0.0402		0.07	0.016	

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 federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.

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  
<http://www.aqmd.gov>

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/smog/areamap.html>. 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.

**2002 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2002**

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. Monthly Average Conc. <sup>i)</sup>	Max. Quarterly Average Conc. <sup>i)</sup>	No. (%) Samples Exceeding Standard				
		No. Days	Max. Conc. µg/m <sup>3</sup>	Federal > 150 µg/m <sup>3</sup>	State > 50 µg/m <sup>3</sup>	Annual Averages <sup>g)</sup> AAM AGM Conc. Conc. µg/m <sup>3</sup> µg/m <sup>3</sup>		No. Days	Max. Conc. µg/m <sup>3</sup>	Federal > 65 µg/m <sup>3</sup>	Annual Averages <sup>h)</sup> AAM Conc. µg/m <sup>3</sup>			Max. Conc. µg/m <sup>3</sup>	Annual Average µg/m <sup>3</sup>	Max. Conc. µg/m <sup>3</sup>	State ≥ 25 µg/m <sup>3</sup>	
<b>LOS ANGELES COUNTY</b>																		
1 Central LA	087	55	65	0	8(14.5)	39.3	37.6	330	66.3	1(0.3)	21.8	69	152	77.7	0.05	0.03	15.2	0
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	60	191	52.3	--	--	14.6	0
3 Southwest Coastal LA County	094	61	121	0	12(19.7)	37.4	34.1	--	--	--	--	60	680	83.8	0.02	0.02	15.6	0
4 South Coastal LA County	072	58	74	0	5(8.6)	35.9	34.1	356	62.7	0	19.5	61	104	65.5	0.03	0.02	17.8	0
6 West San Fernando Valley	074	--	--	--	--	--	--	120	48.8	0	18.9	--	--	--	--	--	--	--
7 East San Fernando Valley	069	58	71	0	7(12.1)	37.7	35.2	122	63.0	0	24.0	--	--	--	--	--	--	--
8 West San Gabriel Valley	088	--	--	--	--	--	--	121	57.8	0	20.3	59	86	54.8	--	--	10.5	0
9 East San Gabriel Valley 1	060	57	91	0	23(40.4)	46.1	42.7	339	72.4	1(0.3)	20.8	59	195	91.7	--	--	11.3	0
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11 South San Gabriel Valley	085	--	--	--	--	--	--	118	61.0	0	23.9	60	147	82.5	0.06	0.05	11.2	0
12 South Central LA County	084	--	--	--	--	--	--	122	64.0	0	23.3	59	223	98.5	0.04	0.04	15.3	0
13 Santa Clarita Valley	090	60	61	0	7(11.7)	33.3	32.5	--	--	--	--	--	--	--	--	--	--	--
<b>ORANGE COUNTY</b>																		
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17 Central Orange County	3176	61	69	0	5(8.2)	33.6	31.5	351	68.6	1(0.3)	18.6	--	--	--	--	--	--	--
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley	3812	60	80	0	5(8.3)	31.3	28.7	119	58.5	0	15.5	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																		
22 Norco/Corona	4155	56	78	0	19(33.9)	44.5	41.5	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	118	130	0	81(68.6)	58.5	53.4	327	77.6	8(2.5)	27.5	60	200	120.1	0.03	0.02	11.7	0
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--	115	75.5	2(1.7)	27.1	62	129	84.6	0.02	0.02	10.5	0
24 Perris Valley	4149	61	100	0	24(39.3)	45.2	41.6	--	--	--	--	--	--	--	--	--	--	--
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29 Banning Airport	4164	54	70	0	6(11.1)	27.5	23.7	--	--	--	--	--	--	--	--	--	--	--
30 Coachella Valley 1**	4137	59	75	0	3(5.1)	27.1	24.6	119	42.3	0	10.0	--	--	--	--	--	--	--
30 Coachella Valley 2**	4157	115 <sup>+</sup>	139 <sup>+</sup>	0 <sup>+</sup>	52(45.2) <sup>+</sup>	50.6 <sup>+</sup>	49.1 <sup>+</sup>	117	26.8	0	12.0	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																		
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	61	122	71.9	0.02	0.02	11.5	0
33 Southwest San Bernardino Valley	5817	61	91	0	25(41.0)	44.9	41.0	111	64.8	0	25.2	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1	5197	60	102	0	32(53.3)	50.2	45.9	118	66.6	1(0.9)	24.3	60	182	105.6	--	--	13.5	0
34 Central San Bernardino Valley 2	5203	59	94	0	33(55.9)	50.4	45.9	117	82.1	3(2.6)	25.7	60	175	97.8	0.03	0.02	10.8	0
35 East San Bernardino Valley	5204	57	83	0	18(31.6)	41.2	36.3	--	--	--	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	27 <sup>*</sup>	52 <sup>*</sup>	0	5(18.5) <sup>*</sup>	36.9 <sup>*</sup>	35.0 <sup>*</sup>	--	--	--	--	--	--	--	--	--	--	--
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	56	34.1	0	11.3	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>			139	0	81	58.5	53.4		82.1	8	27.5		680	120.1	0.06	0.05	17.8	0
<b>SOUTH COAST AIR BASIN</b>			130	0	90	58.5	53.4		82.1	10	27.5		680	120.1	0.06	0.05	17.8	0

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM - Annual Arithmetic Mean

AGM - Annual Geometric 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>; and state standard is annual average (AAM) > 20 µg/m<sup>3</sup>++.

h) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m<sup>3</sup>; and state standard is annual average (AAM) > 12 µg/m<sup>3</sup>++.

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 2002. The maximum monthly average concentration was 1.33 µg/m<sup>3</sup>, and the maximum quarterly average concentration was 0.49 µg/m<sup>3</sup>, both recorded in Southeast Los Angeles County area.

+ - The data for the samples collected on high-wind-days (177 µg/m<sup>3</sup> on 5/8/02 and 276 µg/m<sup>3</sup> on 11/25/02) were excluded in accordance with EPA's Natural Events Policy.

++ - The new PM2.5 annual average state standard of 12 µg/m<sup>3</sup> and revised PM10 annual average state standard of 20 µg/m<sup>3</sup> (to replace AGM 30 µg/m<sup>3</sup>) recommended by the California Air Resources Board have been approved by the state Office of Administrative Law and will become effective on July 5, 2003.



Printed on  
Recycled  
Paper