

**2012 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2012

Source/Receptor Area No. Location	Station No.	Carbon Monoxide ^{a)}		Ozone								Nitrogen Dioxide ^{b)}				Sulfur Dioxide ^{c)}			
		No. Days of Data	Max Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Fourth High Conc. in ppm 8-hour	No. Days Standard Exceeded				No. Days of Data	Max Conc. in ppb 1-hour	98 th Percentile Conc. in ppb 1-hour	Annual Average AAM Conc. in ppb	No. Days of Data	Max. Conc. in ppb 1-hour	99 th Percentile Conc. in ppb 1-hour	
								> 0.124 ppm 1-hour	> 0.075 ppm 8-hour	> 0.09 ppm 1-hour	> 0.070 ppm 8-hour								
LOS ANGELES COUNTY																			
1	Central LA	087	365	1.9	364	0.093	0.077	0.068	0	1	0	2	240*	77.3	68.9	24.8	235*	5.2	5.0
2	Northwest Coastal LA County	091	366	1.4	351	0.093	0.073	0.065	0	0	0	1	324*	61.3	53.6	13.7	--	--	--
3	Southwest Coastal LA County	820	366	2.5	366	0.106	0.075	0.059	0	0	1	1	268*	61.7	55	10.4	203*	4.9	4.7
4	South Coastal LA County 1	072	363	2.2	366	0.084	0.067	0.060	0	0	0	0	221*	77.2	62.5	20.8	285*	22.2	14.3
4	South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	South Coastal LA County 3	033	214*	2.6	212*	0.08	0.066	0.054	0	0	0	0	213*	97.8	77.4	25.3	213*	22.7	21.3
6	West San Fernando Valley	074	366	2.8	366	0.129	0.098	0.095	1	23	18	38	261*	70.9	48.7	14.9	--	--	--
7	East San Fernando Valley	069	366	2.4	366	0.117	0.088	0.081	0	8	8	15	295*	79.5	57	21.9	366	6.5	2.9
8	West San Gabriel Valley	088	319	1.6	318	0.111	0.086	0.08	0	9	8	20	280*	71.2	55.8	17.2	--	--	--
9	East San Gabriel Valley 1	060	366	1.2	366	0.134	0.095	0.079	1	10	18	18	352	71.8	61.5	19.5	--	--	--
9	East San Gabriel Valley 2	591	366	1.1	366	0.147	0.11	0.095	3	45	45	57	287*	60	53.3	14.2	--	--	--
10	Pomona/Walnut Valley	075	364	1.5	364	0.117	0.092	0.085	0	15	21	28	364	81.6	60.6	21.4	--	--	--
11	South San Gabriel Valley	085	366	2.2	357	0.106	0.075	0.071	0	0	5	6	204*	80.8	55.2	20.4	--	--	--
12	South Central LA County	112	366	4.0	357	0.086	0.07	0.064	0	0	0	0	337*	79.3	63.1	17.2	--	--	--
13	Santa Clarita Valley	090	353	1.1	366	0.134	0.112	0.102	6	57	45	81	366	66.1	50.7	13.6	--	--	--
ORANGE COUNTY																			
16	North Orange County	3177	348	2.4	365	0.100	0.078	0.070	0	2	3	3	332*	67.5	53.2	18.0	--	--	--
17	Central Orange County	3176	366	2.3	366	0.079	0.067	0.065	0	0	0	0	366	67.3	53.5	14.6	--	--	--
18	North Coastal Orange County	3195	366	1.7	366	0.090	0.076	0.060	0	1	2	1	348	74.4	50.6	10.4	350	6.2	2
19	Saddleback Valley	3812	366	1.1	336	0.096	0.078	0.071	0	1	0	4	--	--	--	--	--	--	--
RIVERSIDE COUNTY																			
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	366	1.6	357	0.126	0.102	0.096	1	47	27	70	333*	61.7	54.6	15.5	321*	4.3	2
23	Metropolitan Riverside County 2	4146	365	1.5	--	--	--	--	--	--	--	--	246*	60.3	53.7	16.5	--	--	--
23	Mira Loma	4165	355	1.9	360	0.124	0.102	0.095	0	47	31	70	301*	60.7	49.7	13.9	--	--	--
24	Perris Valley	4149	--	--	321	0.111	0.093	0.090	0	46	28	64	--	--	--	--	--	--	--
25	Lake Elsinore	4158	366	0.7	366	0.111	0.089	0.087	0	17	10	29	366	48.3	40.9	10.2	--	--	--
26	Temecula	4031	--	--	306	0.104	0.082	0.077	0	4	1	22	--	--	--	--	--	--	--
29	Banning Airport	4164	--	--	338	0.117	0.098	0.095	0	53	40	71	321*	72.0	49.7	9.5	--	--	--
30	Coachella Valley 1**	4137	366	0.5	366	0.126	0.100	0.094	1	51	17	76	353	45.1	39.3	7.8	--	--	--
30	Coachella Valley 2**	4157	--	--	364	0.102	0.089	0.085	0	24	2	43	--	--	--	--	--	--	--
SAN BERNARDINO COUNTY																			
32	Northwest San Bernardino Valley	5175	360	1.1	336	0.136	0.111	0.102	4	45	42	66	328*	66.7	60.2	19.5	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	366	1.1	366	0.142	0.11	0.106	5	62	60	85	359	69.1	61.2	22.1	366	22.5	4.3
34	Central San Bernardino Valley 2	5203	362	1.7	366	0.124	0.109	0.100	0	54	41	74	315*	67.0	59.7	18.8	--	--	--
35	East San Bernardino Valley	5204	--	--	366	0.136	0.109	0.105	3	79	66	98	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	364	0.140	0.112	0.103	2	86	56	100	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM				4.0		0.147	0.112	0.106	6	86	66	100		97.8	77.4	25.3		22.7	21.3
SOUTH COAST AIR BASIN				4.0		0.147	0.112	0.106	12	111	98	138		97.8	77.4	25.3		22.7	21.3

* Incomplete data.

** Salton Sea Air Basin

ppm - Parts Per Million parts of air, by volume

ppb - Parts Per Billion parts of air, by volume

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.

The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded either.

b) - The NO₂ federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO₂ > 0.0534 ppm (53.4 ppb). The state 1-hour and annual standards are 0.18 ppm (180 ppb) and 0.030 ppm (30 ppb).

c) - The federal SO₂ 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO₂ > 0.25 ppm (250 ppb) and 24-hour average SO₂ > 0.04 ppm (40 ppb).



For information on the current standard levels and most recent revisions please refer to "Appendix II - Current Air Quality" of the "Final 2012 AQMP (December)" which can be accessed at <http://www.aqmd.gov/aqmp/2012aqmp/DraftFinal/appII.pdf>. Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webappl/gisaiqi2/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webappl/gisaiqi2/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map or copy of the AQMP Appendix II is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.

**2012 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location		Station No.	Suspended Particulates PM10 ^(d,g)				Fine Particulates PM2.5 ^(g)				Particulates TSP		Lead ^{h)}		PM10 Sulfate ^{l)}				
			No. Days of Data	Max. Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Standards Federal >150 µg/m ³ State >50 µg/m ³		Annual Average Conc. ^{e)} (AAM) µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	98 th Percentile Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Federal Std >35 µg/m ³ 24-hour	Annual Average Conc. ^{e)} (AAM) µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	Annual Average Conc. ^{e)} (AAM) µg/m ³	Max. Monthly Average Conc. µg/m ³	Max. 3-Months Rolling Averages µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour
LOS ANGELES COUNTY																			
1	Central LA	087	60	80	0	4	30.2	342	58.7	31.8	4	12.55	57	197	61.8	0.014	0.011	60	5.7
2	Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	56	128	47.0	--	--	--	--
3	Southwest Coastal LA County	820	57	31	0	0	19.8	--	--	--	--	--	52	60	35.1	0.005	0.003	57	5.4
4	South Coastal LA County 1	072	60	45	0	0	23.3	349	49.8	26.4	4	10.37	60	74	41.2	0.005	0.005	60	5.2
4	South Coastal LA County 2	077	60	54	0	1	25.5	340	46.7	25.1	4	10.57	59	76	40.3	0.007	0.005	60	4.9
4	South Coastal LA County 3	033	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	West San Fernando Valley	074	--	--	--	--	--	110	41.6	31.2	2	10.48	--	--	--	--	--	--	--
7	East San Fernando Valley	069	60	55	0	1	26.4	355	54.2	28.2	2	12.17	--	--	--	--	--	60	6.2
8	West San Gabriel Valley	088	--	--	--	--	--	96	30.5	24.2	0	10.12	49	82	47.2	--	--	--	--
9	East San Gabriel Valley 1	060	61	78	0	6	30.3	118	39.6	25.6	1	11.02	56	175	67.1	--	--	61	5.2
9	East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	085	--	--	--	--	--	119	45.3	28.5	1	11.85	59	77	49.9	0.007	0.007	--	--
12	South Central LA County	112	--	--	--	--	--	115	51.2	30.3	1	11.69	550	91	52.1	0.009	0.008	--	--
13	Santa Clarita Valley	090	55	37	0	0	19.6	--	--	--	--	--	--	--	--	--	--	55	4.9
ORANGE COUNTY																			
16	North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	3176	61	48	0	0	22.4	347	50.1	24.9	4	10.81	--	--	--	--	--	61	4.4
18	North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	3812	60	37	0	0	17.3	123	27.6	17.6	0	7.91	--	--	--	--	--	60	4.2
RIVERSIDE COUNTY																			
22	Norco/Corona	4155	59	52	0	1	26.6	--	--	--	--	--	--	--	--	--	--	59	4.4
23	Metropolitan Riverside County 1	4144	121	67	0	19	34.5	352	38.1	33.7	7	13.51	58	126	66.7	0.008	0.007	120	7.7
23	Metropolitan Riverside County 2	4146	--	--	--	--	--	104	30.2	26.8	0	11.35	59	72	44.2	0.006	0.005	--	--
23	Mira Loma	4165	56	78	0	15	39.9	351	39.3	35.1	7	15.06	--	--	--	--	--	56	4.7
24	Perris Valley	4149	60	62	0	1	26.5	--	--	--	--	--	--	--	--	--	--	60	3.8
25	Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Temecula	4031	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Banning Airport	4164	60	45	0	0	19.1	--	--	--	--	--	--	--	--	--	--	60	5.0
30	Coachella Valley 1**	4137	60	37	0	0	16.4	117	15.5	13.7	0	6.50	--	--	--	--	--	60	5.9
30	Coachella Valley 2**	4157	121	124	0	7	29.5	117	20	16.4	0	7.64	--	--	--	--	--	121	7.6
SAN BERNARDINO COUNTY																			
32	Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	59	106	43.4	0.007	0.006	--	--
33	Southwest San Bernardino Valley	5817	61	57	0	4	30.8	120	35.2	28.6	0	12.41	--	--	--	--	--	61	5.1
34	Central San Bernardino Valley 1	5197	60	67	0	9	34.3	110	39.9	35.6	3	12.82	56	148	78.4	--	--	60	4.6
34	Central San Bernardino Valley 2	5203	55	53	0	1	29.2	107	34.8	27.1	0	11.76	56	128	55.6	0.008	0.007	55	4.4
35	East San Bernardino Valley	5204	61	48	0	0	23.4	--	--	--	--	--	--	--	--	--	--	61	4.2
37	Central San Bernardino Mountains	5181	57	43	0	0	18.9	--	--	--	--	--	--	--	--	--	--	57	3.7
38	East San Bernardino Mountains	5818	--	--	--	--	--	52	36.4	27.4	1	7.98	--	--	--	--	--	--	--
DISTRICT MAXIMUM			124	0	19	39.9		58.7	35.6	7	15.06		197	78.4	0.014	0.011		7.7	
SOUTH COAST AIR BASIN			80	0	31	39.9		58.7	35.6	15	15.06		197	78.4	0.014	0.011		7.7	

** Salton Sea Air Basin µg/m³ - Micrograms per cubic meter of air

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored

d) - Federal Reference Method (FRM) PM10 samples were collected every 6 days at all sites except for Stations 4144 and 4157, where samples were collected every 3 days. PM10 statistics listed above are for the FRM data only. Federal Equivalent Method (FEM) PM10 continuous monitors were operated at some of the above locations. Max 24-hour average PM10 at sites with FEM monitoring was 142 µg/m³, at Palm Springs in Coachella Valley. The FEM Basin's max was 104 µg/m³, at Mira Loma.

e) - Federal annual PM10 standard (AAM > 50 µg/m³) was revoked in 2006. State standard is annual average (AAM) > 20 µg/m³.

f) - PM2.5 samples were collected every 3 days at all sites except for station numbers 069, 072, 077, 087, 3176, 4144 and 4165, where samples were taken daily, and station number 5818 where samples were taken every 6 days. PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations. Max 24-hour average PM2.5 concentration recorded at FEM sites was 79.0 µg/m³, at Central LA..

U.S. EPA has revised the annual PM2.5 standard from annual average (AAM) 15.0 µg/m³ to 12.0 µg/m³, effective March 18, 2013. State standard is annual average (AAM) > 12.0 µg/m³.

g) - High PM10 and PM2.5 data samples excluded in accordance with the EPA Exceptional Event Regulation are as follows: PM10 (FEM) data recorded on August 9 (270 µg/m³) and January 21 (207 µg/m³) both at Indio; PM2.5 (FRM) at Azusa (39.6 µg/m³) and Fontana (39.9 µg/m³), both recorded on July 5.

h) - Federal lead standard is 3-months rolling average > 0.15 µg/m³; state standard is monthly average ≥ 1.5 µg/m³. Lead statistics listed above are for population-oriented sites only; standards were not exceeded at any of these sites.

i) - State sulfate standard is 24-hour ≥ 25 µg/m³. There is no federal standard for sulfate.



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