

**2013 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

# 2013

Source/Receptor Area No. Location	Station No.	Carbon Monoxide <sup>a)</sup>		Ozone								Nitrogen Dioxide <sup>b)</sup>				Sulfur Dioxide <sup>c)</sup>			
		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. ppm 8-hour	Health Advisory $\geq 0.15$ ppm 1-hour	No. Days Standard Exceeded				No. Days of Data	Max Conc. in ppb 1-hour	98 <sup>th</sup> Percentile Conc. ppb 1-hour	Annual Average AAM Conc. ppb	No. Days of Data	Max. Conc. in ppb 1-hour	99 <sup>th</sup> Percentile Conc. ppb 1-hour
									Old Federal > 0.124 ppm 1-hour	Current Federal > 0.075 ppm 8-hour	Current State > 0.09 ppm 1-hour	Current State > 0.070 ppm 8-hour							
<b>LOS ANGELES COUNTY</b>																			
1 Central LA	087	330	2.0	365	0.081	0.069	0.060	0	0	0	0	0	301	90.3	62.6	21.8	312	6.3	5.2
2 Northwest Coastal LA County	091	340	1.3	359	0.088	0.075	0.059	0	0	0	1	291	51.2	48.8	14.5	--	--	--	
3 Southwest Coastal LA County	820	281*	2.5	352	0.105	0.081	0.060	0	0	1	1	334	77.8	58.0	11.8	322	10.1	6.5	
4 South Coastal LA County 1	072	249*	2.0	267*	0.092	0.070	0.060	0	0	0	0	234*	66.9	55.7	14.0	178*	21.8	10.1	
4 South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4 South Coastal LA County 3	033	323	2.6	362	0.090	0.069	0.057	0	0	0	0	325	81.3	71.3	21.5	349	15.1	11.6	
6 West San Fernando Valley	074	323	2.3	320	0.124	0.092	0.084	0	0	11	7	258*	58.2	51.7	14.4	--	--	--	
7 East San Fernando Valley	069	335	2.4	362	0.110	0.083	0.079	0	0	6	4	284	72.5	60.0	20.2	342	10.8	4.2	
8 West San Gabriel Valley	088	201*	1.7	211*	0.099	0.075	0.070	0	0	0	2	200*	66.7	60.3	19.1	--	--	--	
9 East San Gabriel Valley 1	060	343	1.7	361	0.115	0.085	0.080	0	0	6	7	352	76.9	56.7	17.7	--	--	--	
9 East San Gabriel Valley 2	591	347	0.8	340	0.135	0.100	0.088	0	1	24	24	349	55.7	50.4	13.0	--	--	--	
10 Pomona/Walnut Valley	075	340	1.6	355	0.125	0.099	0.085	0	1	15	12	343	78.8	64.8	22.5	--	--	--	
11 South San Gabriel Valley	085	347	2.0	363	0.101	0.072	0.070	0	0	0	2	337	79.4	60.6	20.6	--	--	--	
12 South Central LA County	112	338	3.5	358	0.090	0.080	0.063	0	0	1	0	340	69.8	61.8	17.6	--	--	--	
13 Santa Clarita Valley	090	352	0.8	365	0.134	0.104	0.094	0	2	40	30	362	65.4	45.0	14.4	--	--	--	
<b>ORANGE COUNTY</b>																			
16 North Orange County	3177	355	2.2	363	0.104	0.078	0.066	0	0	1	2	269*	85.0	53.3	14.8	--	--	--	
17 Central Orange County	3176	333	2.6	340	0.084	0.070	0.063	0	0	0	0	301	81.6	58.8	18.0	--	--	--	
18 North Coastal Orange County	3195	313	2.0	385	0.095	0.083	0.065	0	0	1	1	330	75.7	53.2	11.6	296	4.2	3.3	
19 Saddleback Valley	3812	356	1.3	365	0.104	0.082	0.074	0	0	2	2	--	--	--	--	--	--	--	
<b>RIVERSIDE COUNTY</b>																			
22 Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
23 Metropolitan Riverside County 1	4144	334	2.0	357	0.123	0.103	0.094	0	0	26	13	318	59.6	54.8	17.3	354	8.1	4.6	
23 Metropolitan Riverside County 2	4146	318	1.6	--	--	--	--	--	--	--	--	257*	57.6	50.7	15.8	--	--	--	
23 Mira Loma	4165	339	1.9	365	0.118	0.096	0.092	0	0	21	11	333	53.8	50.7	13.7	--	--	--	
24 Perris Valley	4149	--	--	344	0.108	0.090	0.088	0	0	34	17	60	--	--	--	--	--	--	
25 Lake Elsinore	4158	336	0.6	362	0.102	0.089	0.081	0	0	12	6	294	46.6	40.0	8.4	--	--	--	
26 Temecula	4031	--	--	324	0.093	0.078	0.075	0	0	3	0	12	--	--	--	--	--	--	
29 Banning Airport	4164	--	--	254*	0.115	0.103	0.091	0	0	41	24	66	308	51.9	45.0	8.5	--	--	--
30 Coachella Valley 1**	4137	354	1.5	365	0.113	0.104	0.090	0	0	46	10	82	359	52.3	38.5	7.5	--	--	--
30 Coachella Valley 2**	4157	--	--	365	0.105	0.087	0.085	0	0	18	2	38	--	--	--	--	--	--	
<b>SAN BERNARDINO COUNTY</b>																			
32 Northwest San Bernardino Valley	5175	340	1.7	365	0.143	0.111	0.095	0	3	27	25	44	276*	62.1	53.3	17.7	--	--	--
33 Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
34 Central San Bernardino Valley 1	5197	337	1.3	363	0.151	0.122	0.100	1	2	42	34	68	335	81.7	60.6	20.6	298	3.8	3.1
34 Central San Bernardino Valley 2	5203	340	1.7	361	0.139	0.112	0.097	0	2	36	22	53	291	72.2	54.5	17.6	--	--	--
35 East San Bernardino Valley	5204	--	--	356	0.133	0.119	0.104	0	3	63	43	93	--	--	--	--	--	--	
37 Central San Bernardino Mountains	5181	--	--	365	0.120	0.105	0.099	0	0	72	45	101	--	--	--	--	--	--	
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>DISTRICT MAXIMUM</b>			3.5		0.151	0.122	0.104	1	3	72	45	101		90.3	71.3	22.5		21.8	11.6
<b>SOUTH COAST AIR BASIN</b>			3.5		0.151	0.122	0.104	1	5	88	70	119		90.3	71.3	22.5		21.8	11.6

\* Incomplete data.

\*\* Salton Sea Air Basin

-- Pollutant not monitored

ppm - Parts Per Million parts of air, by volume

ppb - Parts Per Billion parts of air, by volume

AAM = Annual Arithmetic Mean

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 NO<sub>2</sub> federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO<sub>2</sub> > 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 SO<sub>2</sub> 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm (250 ppb) and 24-hour average SO<sub>2</sub> > 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" which can be accessed at [http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-\(february-2013\)/appendix-ii-final-2012.pdf](http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-(february-2013)/appendix-ii-final-2012.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](#), accessed from <http://www2.aqmd.gov/webappl/aisaqi2/VEMap3D.aspx>. 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.

**2013 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2013**

Source/Receptor Area No. Location		Station No.	Suspended Particulates PM10 <sup>d)</sup>				Fine Particulates PM2.5 <sup>f)</sup>					Lead <sup>h)</sup>		PM10 Sulfate <sup>i)</sup>		
			No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal Standard > 150 µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding State Standard > 50 µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	98 <sup>th</sup> Percentile Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal Std > 35 µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	Max. Monthly Average Conc. µg/m <sup>3</sup>	Max. 3-Months Rolling Averages µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour
<b>LOS ANGELES COUNTY</b>																
1	Central LA	087	60	57	0	1(2%)	29.5	344	43.1	29.0	1(0.3%)	11.95	0.013	0.011	60	5.8
2	Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	Southwest Coastal LA County	820	56	38	0	0	20.8	--	--	--	--	--	0.005	0.004	56	5.6
4	South Coastal LA County 1	072	43*	37	0	0	23.2	331	47.2	26.1	2(0.6%)	11.34	0.006	0.006	43*	4.5
4	South Coastal LA County 2	077	56	54	0	1(2%)	27.3	341	42.9	24.6	1(0.3%)	10.97	0.012	0.009	56	4.8
4	South Coastal LA County 3	033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	West San Fernando Valley	074	--	--	--	--	--	118	41.8	23.0	1(0.8%)	9.71	--	--	--	--
7	East San Fernando Valley	069	58	52	0	1(2%)	28.5	346	45.1	30.4	4(1.2%)	12.15	--	--	58	5.4
8	West San Gabriel Valley	088	--	--	--	--	--	64*	25.7	20.5	0(0%)	10.13	--	--	--	--
9	East San Gabriel Valley 1	060	61	76	0	6(10%)	33.0	120	29.6	26.4	0(0%)	10.54	--	--	61	4.8
9	East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	085	--	--	--	--	--	114	29.1	28.8	0(0%)	11.56	0.012	0.011	--	--
12	South Central LA County	112	--	--	--	--	--	113	52.1	24.3	1(0.9%)	11.95	0.014	0.011	--	--
13	Santa Clarita Valley	090	60	43	0	0	21.6	--	--	--	--	--	--	--	60	3.7
<b>ORANGE COUNTY</b>																
16	North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	3176	59	77	0	1(2%)	25.4	331	37.8	22.7	1(0.3%)	10.09	--	--	59	4.7
18	North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	3812	61	51	0	1(2%)	19.3	117	28.0	17.5	0(0%)	8.08	--	--	61	4.4
<b>RIVERSIDE COUNTY</b>																
22	Norco/Corona	4155	57	58	0	2(4%)	28.3	--	--	--	--	--	--	--	57	4.2
23	Metropolitan Riverside County 1	4144	119	135	0	10(8%)	33.8	353	60.3	34.6	6(1.7%)	12.50	0.010	0.009	119	4.2
23	Metropolitan Riverside County 2	4146	--	--	--	--	--	117	53.7	29.2	1(0.9%)	11.28	0.007	0.006	--	--
23	Mira Loma	4165	59	147	0	14(24%)	41.1	355	56.5	37.5	9(2.5%)	14.12	--	--	59	4.2
24	Perris Valley	4149	57	70	0	10(18%)	33.6	--	--	--	--	--	--	--	57	3.4
25	Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	Temecula	4031	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Banning Airport	4164	61	64	0	1(2%)	20.6	--	--	--	--	--	--	--	61	2.9
30	Coachella Valley 1**	4137	60	129	0	3(5%)	22.6	117	18.5	13.8	0(0%)	6.52	--	--	60	3.5
30	Coachella Valley 2**	4157	120	129+	0+	23(19%)	38.1	118	25.8	15.9	0(0%)	8.35	--	--	120	3.9
<b>SAN BERNARDINO COUNTY</b>																
32	Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	0.008	0.006	--	--
33	Southwest San Bernardino Valley	5817	60	115	0	3(5%)	33.2	110	49.3	26.8	1(0.9%)	11.98	--	--	60	4.8
34	Central San Bernardino Valley 1	5197	61	90	0	19(31%)	40.6	121	43.6	33.1	1(0.8%)	12.26	--	--	61	4.1
34	Central San Bernardino Valley 2	5203	60	102	0	3(5%)	31.3	110	55.3	33.4	1(0.9%)	11.41	0.010	0.010	60	4.6
35	East San Bernardino Valley	5204	61	72	0	2(3%)	27.1	--	--	--	--	--	--	--	61	3.6
37	Central San Bernardino Mountains	5181	60	37	0	0	21.4	--	--	--	--	--	--	--	60	3.6
38	East San Bernardino Mountains	5818	--	--	--	--	--	59	35.5	35.1	1(1.7%)	9.67	--	--	--	--
<b>DISTRICT MAXIMUM</b>				147+	0+	23	41.1		60.3	37.5	9	14.12	0.013++	0.011++		5.8
<b>SOUTH COAST AIR BASIN</b>				147	0	33	41.1		60.4	37.5	13	14.12	0.013++	0.011++		5.8

\* Incomplete data. \*\* Salton Sea Air Basin µg/m<sup>3</sup> - 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 monitoring instruments were operated at some of the above locations. Max 24-hour average PM10 at sites with FEM monitoring was 153 µg/m<sup>3</sup>, at Indio (155 µg/m<sup>3</sup> is needed to exceed the PM10 standard).  
e) - State standard is annual average (AAM) > 20 µg/m<sup>3</sup>. Federal annual PM10 standard (AAM > 50 µg/m<sup>3</sup>) was revoked in 2006.  
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 for special purposes with the max 24-hour average concentration recorded of 83.2 µg/m<sup>3</sup>, (at Mira Loma).  
g) - U.S. EPA has revised the federal annual PM2.5 standard from annual average (AAM) > 15.0 µg/m<sup>3</sup> to AAM > 12.0 µg/m<sup>3</sup>, effective December 14, 2012. State standard is annual average (AAM) > 12.0 µg/m<sup>3</sup>.  
+) - High PM10 data sample (159 µg/m<sup>3</sup> on August 23 at Indio) excluded due to the high wind in accordance with the EPA Exceptional Event Regulation. Also, multiple high PM10 FEM data recorded in Coachella Valley and the Basin were excluded.  
h) - Federal lead standard is 3-months rolling average > 0.15 µg/m<sup>3</sup>; state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. Lead statistics listed above are for population-oriented sites only. Lead standards were not exceeded.  
++) - Higher lead concentrations were recorded at source-oriented monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.14 µg/m<sup>3</sup> and 0.10 µg/m<sup>3</sup>, respectively.  
i) - State sulfate standard is 24-hour ≥ 25 µg/m<sup>3</sup>. There is no federal standard for sulfate.

