

**2016 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2016**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide a)			Ozone b)									Nitrogen Dioxide c)				Sulfur Dioxide d)				
		No. Days of Data	Max Conc. in ppm 1-hour	Max Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Number of 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		
								Fourth High Conc. ppm 8-hour	Old Federal > 0.124 ppm 1-hour	Current Federal > 0.070 ppm 8-hour	2008 Federal > 0.075 ppm 8-hour	1997 Federal > 0.084 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	361	1.9	1.4	364	0.103	0.078	0.071	0	4	1	0	2	4	366	64.7	61.0	20.8	366	13.4	2.5
2	Northwest Coastal LA County	091	366	2.2	1.1	365	0.085	0.073	0.066	0	2	0	0	0	2	366	54.5	49.3	11.6	--	--	--
3	Southwest Coastal LA County	820	362	1.6	1.3	361	0.087	0.080	0.067	0	2	1	0	0	3	348	81.5	54.7	10.1	363	9.7	5.7
4	South Coastal LA County 1	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	South Coastal LA County 3	033	363	3.3	2.2	365	0.079	0.059	0.055	0	0	0	0	0	0	366	75.6	66.3	18.5	366	17.8	12.0
4	I-710 Near Road##	032	--	--	--	--	--	--	--	--	--	--	--	--	--	366	95.3	76.6	23.9	--	--	--
6	West San Fernando Valley	074	366	2.4	1.9	364	0.122	0.098	0.086	0	23	14	4	9	23	355	55.5	45.9	12.9	--	--	--
8	West San Gabriel Valley	088	366	1.5	1	358	0.126	0.090	0.082	1	18	15	3	12	19	366	71.9	58.4	15.4	--	--	--
9	East San Gabriel Valley 1	060	366	1.3	1.2	366	0.146	0.106	0.095	4	39	25	10	30	40	366	74.2	58.3	16.6	--	--	--
9	East San Gabriel Valley 2	591	364	1.1	1	362	0.148	0.114	0.098	6	52	31	16	38	55	365	65.4	45.7	11.6	--	--	--
10	Pomona/Walnut Valley	075	361	1.7	1.3	360	0.127	0.092	0.087	1	26	14	5	20	29	360	69.3	62.5	20.1	--	--	--
11	South San Gabriel Valley	085	366	2.8	1.7	359	0.111	0.081	0.074	0	6	2	0	9	6	361	63.2	60.1	20.0	--	--	--
12	South Central LA County	112	366	4.4	3.9	365	0.098	0.071	0.064	0	1	0	0	1	1	366	63.7	58.4	15.6	--	--	--
13	Santa Clarita Valley	090	366	1.3	1.1	366	0.130	0.115	0.100	2	57	35	15	29	59	361	46.4	39.4	10.2	--	--	--
<b>ORANGE COUNTY</b>																						
16	North Orange County	3177	366	3.1	1.5	365	0.103	0.078	0.075	0	6	3	0	3	7	359	60.4	51.5	14.7	--	--	--
17	Central Orange County	3176	355	2.6	2.1	354	0.103	0.074	0.071	0	4	0	0	2	4	354	64.3	56.7	14.8	--	--	--
17	I-5 Near Road##	3131	360	3.7	2.2	--	--	--	--	--	--	--	--	--	--	357	75.2	60.1	23.4	--	--	--
18	North Coastal Orange County	3195	366	2.1	1.7	366	0.090	0.069	0.065	0	0	0	0	0	0	349	59.8	51.2	10.1	366	3.3	2.1
19	Saddleback Valley	3812	353	1.3	0.7	365	0.122	0.093	0.079	0	13	6	3	5	13	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																						
22	Corona/Norco Area	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	359	1.7	1.3	357	0.142	0.104	0.097	1	69	47	20	33	71	366	73.1	52.2	14.9	366	5.6	2.0
23	Metropolitan Riverside County 3	4165	366	1.9	1.4	365	0.140	0.106	0.095	1	65	43	23	34	70	366	64.9	48.3	13.6	--	--	--
24	Perris Valley	4149	--	--	--	366	0.131	0.098	0.092	1	55	30	11	23	56	--	--	--	--	--	--	--
25	Elsinore Valley	4158	298*	1.2	0.6	360	0.124	0.093	0.087	0	44	25	7	15	45	345*	51.3	35.6	8.1	--	--	--
26	Temecula Valley	4031	--	--	--	355	0.092	0.081	0.077	0	19	6	0	0	20	--	--	--	--	--	--	--
29	San Geronio Pass	4164	--	--	--	358	0.128	0.106	0.094	1	52	39	14	26	54	348	46.9	42.6	7.9	--	--	--
30	Coachella Valley 1**	4137	361	3.1	1.5	363	0.103	0.092	0.087	0	46	20	4	6	48	363	42.6	34.4	6.0	--	--	--
30	Coachella Valley 2**	4157	--	--	--	331	0.099	0.089	0.081	0	27	12	2	3	29	--	--	--	--	--	--	--
30	Coachella Valley 3**	4032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																						
32	Northwest San Bernardino Valley	5175	366	1.7	1.3	366	0.156	0.116	0.110	10	88	65	33	53	89	366	70.1	55.1	16.5	--	--	--
33	I-10 Near Road##	5035	366	1.7	1.3	--	--	--	--	--	--	--	--	--	--	362	93.4	74.3	29.3	--	--	--
33	CA-60 Near Road##	5036	--	--	--	--	--	--	--	--	--	--	--	--	--	361	89.8	71.3	31.0	--	--	--
34	Central San Bernardino Valley 1	5197	359	1.7	1	362	0.139	0.105	0.098	3	49	39	16	34	52	357	71.7	56.4	18.2	363	6.3	2.0
34	Central San Bernardino Valley 2	5203	358	2.2	1.7	366	0.158	0.118	0.114	10	106	76	41	70	108	355	60.1	51.4	16.6	--	--	--
35	East San Bernardino Valley	5204	--	--	--	364	0.145	0.119	0.103	3	97	71	40	55	100	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	365	0.163	0.121	0.116	9	101	80	54	64	103	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>				4.4	3.9		0.163	0.121	0.116	10	106	80	54	70	108		95.3	76.6	31.0		17.8	12.0
<b>SOUTH COAST AIR BASIN</b>				4.4	3.9		0.163	0.121	0.116	17	132	103	63	83	132		95.3	76.6	31.0		17.8	12.0

\* 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 and state 8-hour CO standards (9 ppm and 9.0 ppm) were not exceeded. The federal and state 1-hour CO standards (35 ppm and 20 ppm) were not exceeded, either.

b) The current (2015) O<sub>3</sub> federal standard was revised effective December 28, 2015.

c) 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 and 0.030 ppm.

d) 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).

## Four near-road sites measuring one or more of the pollutants PM<sub>2.5</sub>, CO and/or NO<sub>2</sub> are operating near the following freeways: I-5, I-10, CA-60 and I-710.



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

For information on the current standard levels and most recent revisions please refer to "Appendix II – Current Air Quality" of the "2016 AQMP" which can be accessed at <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp-appendix-ii.pdf?sfvrsn=4>. 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 at <http://www2.aqmd.gov/webapp/gis/qi2/VEMap3D.aspx>. A printed 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.

**2016 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2016**

Source/Receptor Area No. Location		Station No.	Suspended Particulates PM10 <sup>e)</sup>				Fine Particulates PM2.5 <sup>g)</sup>					Lead <sup>i)</sup>		PM10 Sulfate <sup>j)</sup>		
			No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal State > 150 µg/m <sup>3</sup> > 50 µg/m <sup>3</sup> 24-hour	Annual Average Conc. <sup>f)</sup> (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. <sup>h)</sup> (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	277*	67	0	18(6%)	32.4	357	44.39	27.3	2(0.6%)	11.83	0.016	0.01	58	5.8
2	Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	Southwest Coastal LA County	820	60	43	0	0(0%)	21.6	--	--	--	--	--	0.006	0.01	58	6.2
4	South Coastal LA County 1	072	--	--	--	--	--	356	29.37	23.56	0	10.36	--	--	--	--
4	South Coastal LA County 2	077	60	56	0	3(5%)	27.8	350	28.93	22.05	0	9.62	0.008	0.01	59	6.3
4	South Coastal LA County 3	033	59	75	0	8(14%)	31.9	--	--	--	--	--	--	--	57	7.4
4	I-710 Near Road##	032	--	--	--	--	--	352	33.31	26.09	0	12.03	--	--	--	--
6	West San Fernando Valley	074	--	--	--	--	--	113	30.05	24.59	0	9.23	--	--	--	--
8	West San Gabriel Valley	088	--	--	--	--	--	119	29.21	25.38	0	9.59	--	--	--	--
9	East San Gabriel Valley 1	060	60	74	0	12(20%)	33.7	122	32.17	29.01	0	10.15	--	--	58	9.5#
9	East San Gabriel Valley 2	591	362	74	0	21(6%)	29.8	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	075	---	---	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	085	--	--	--	--	--	120	46.59	25.13	2(1.7%)	11.75	0.011	0.01	--	--
12	South Central LA County	112	--	--	--	--	--	115	36.35	26.35	1(0.9%)	11.13	0.016	0.01	--	--
13	Santa Clarita Valley	090	60	96	0	1(2%)	23.4	--	--	--	--	--	--	--	59	4.1
<b>ORANGE COUNTY</b>																
16	North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	3176	353	74	0	3(1%)	24.4	349	44.45	24.02	1(0.3%)	9.47	--	--	59	5.3#
17	I-5 Near Road##	3131	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	3812	59	59	0	1(2%)	21.0	117	24.79	13.41	0	7.36	--	--	58	3.7
<b>RIVERSIDE COUNTY</b>																
22	Corona/Norco Area	4155	51*	62	0	7(14%)	31.7	--	--	--	--	--	--	--	50	8.2#
23	Metropolitan Riverside County 1	4144	302*	82	0	58(19%)	36.9	357+	39.12	31.65	4(1.1%)	12.54	0.007	0.01	114	15.2#
23	Metropolitan Riverside County 3	4165	356+	116	0	175(49%)	49.0	352+	45.64	35.14	6(1.7%)	14.02	--	--	118	13.6#
24	Perris Valley	4149	57	76	0	5(9%)	32.2	--	--	--	--	--	--	--	55	6.0#
25	Elsinore Valley	4158	366	99	0	4(1%)	21.4	--	--	--	--	--	--	--	--	--
26	Temecula Valley	4031	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	San Geronio Pass	4164	57	65	0	3(5%)	24.0	--	--	--	--	--	--	--	56	4.0#
30	Coachella Valley 1**	4137	355+	113	0	6(2%)	20.8	112	14.71	12.43	0	5.53	--	--	51	3.9
30	Coachella Valley 2**	4157	313**	137	0	56(18%)	36.9	115	25.84	15.04	0	7.74	--	--	113	4.1
30	Coachella Valley 3**	4032	272**	150	0	76(28%)	43.0	--	--	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																
32	Northwest San Bernardino Valley	5175	363	72	0	5(1%)	25.0	--	--	--	--	--	0.007	0.01	--	--
33	I-10 Near Road##	5035	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33	CA-60 Near Road##	5036	--	--	--	--	--	347**	44.14	33.02	6(1.7%)	14.73	--	--	--	--
34	Central San Bernardino Valley 1	5197	61	94	0	15(25%)	38.1	111+	30.45	26.25	0	12.04	--	--	59	17.1#
34	Central San Bernardino Valley 2	5203	333*	91	0	33(10%)	33.1	113+	32.54	27.12	0	10.84	0.010	0.01	55	16.0#
35	East San Bernardino Valley	5204	56	72	0	4(7%)	27.8	--	--	--	--	--	--	--	56	12.1#
37	Central San Bernardino Mountains	5181	61	46	0	0(0%)	17.1	--	--	--	--	--	--	--	59	3.9#
38	East San Bernardino Mountains	5818	--	--	--	--	--	55	28.42	22.14	0	6.83	--	--	--	--
<b>DISTRICT MAXIMUM</b>				150+	0+	175+	49.0+		46.6+	35.1+	6+	14.73+	0.016**	0.01**		17.1#
<b>SOUTH COAST AIR BASIN</b>				116+	0+	181+	49.0+		46.6+	35.1+	9+	14.73+	0.016**	0.01**		17.1#

\* Incomplete data due to the site improvement.      \*\* Salton Sea Air Basin      µg/m<sup>3</sup> – Micrograms per cubic meter of air      AAM – Annual Arithmetic Mean      -- Pollutant not monitored

e) PM10 statistics listed above are based on combined Federal Reference Method (FRM) and Federal Equivalent Method (FEM) data.

f) State annual average (AAM) PM10 standard is > 20 µg/m<sup>3</sup>. Federal annual PM10 standard (AAM > 50 µg/m<sup>3</sup>) was revoked in 2006.

g) 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 real-time alerts and forecasting only.

h) Both Federal and State standards are annual average (AAM) > 12.0 µg/m<sup>3</sup>.

i) 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 standards were not exceeded.

j) State sulfate standard is 24-hour ≥ 25 µg/m<sup>3</sup>. There is no federal standard for sulfate. Sulfate data is not available at this time.

+ High PM10 (≥ 155 µg/m<sup>3</sup>) data recorded in Coachella Valley (due to high winds) and the Basin (due to Independence Day fireworks) are excluded in accordance with the U.S. EPA Exceptional Event Rule.

++ Higher lead concentrations were recorded at near-source monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.088 µg/m<sup>3</sup> and 0.06 µg/m<sup>3</sup>, respectively.

# These max concentrations were recorded on July 5 and the higher values may be related to the Independence Day firework activities. No location exceeded the state standard.

## Four near-road sites measuring one or more of the pollutants PM2.5, CO and/or NO2 are operating near the following freeways: I-5, I-10, CA-60 and I-710.