

2024 AIR QUALITY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

2024

2024			Carbon Monoxide ^a			Ozone ^b										Nitrogen Dioxide ^c				Sulfur Dioxide ^d		
						Number of Days Standard Exceeded																
			No. Days	Max 1-Hour Conc., ppm	Max 8-Hour Conc., ppm	No. Days	Max 1-Hour Conc., ppm	Max 8-Hour Conc., ppm	Fourth High 8-Hour Conc., ppm	Old Federal 1-Hour > 0.12 ppm	Current Federal 8-Hour > 0.070 ppm	2008 Federal 8-Hour > 0.075 ppm	1997 Federal 8-Hour > 0.08 ppm	Current State 1-Hour > 0.09 ppm	Current State 8-Hour > 0.070 ppm	No. Days	Max 1-Hour Conc., ppb	98th Percentile 1-Hour Conc., ppb	Annual Average (AAM) Conc., ppb	No. Days	Max 1-Hour Conc., ppb	99th Percentile 1-Hour Conc., ppb
Source/Receptor Area		AQS Station ID	of Data			of Data									of Data				of Data			
LOS ANGELES COUNTY																						
1	Central LA	060371103	358	1.8	1.6	358	0.107	0.081	0.072	0	6	3	0	2	6	357	80.0	53.0	16.5	362	2.3	1.8
2	Northwest Coastal LA County	060370113				356	0.093	0.069	0.058	0	0	0	0	0	0	364	54.0	41.7	9.5			
4	South Coastal LA County 2*	060374004																				
4	South Coastal LA County 3	060374006																				
4	South Coastal LA County 4	060374009				340	0.103	0.071	0.060	0	1	0	0	1	1	355	55.4	46.6	11.0	354	8.2	7.5
4	I-710 Near Road ^{##}	060374008														363	75.6	62.6	20.5			
6	West San Fernando Valley	060371201	360	2.2	1.8	350	0.132	0.097	0.090	1	46	22	7	14	49	340	55.4	43.5	9.3			
7	East San Fernando Valley	060374010				356	0.130	0.086	0.081	1	33	14	2	12	34	360	55.5	47.5	13.1			
8	West San Gabriel Valley	060372005	361	1.4	1.1	362	0.143	0.099	0.087	1	42	25	5	21	48	366	61.5	49.0	12.5			
9	East San Gabriel Valley 1*	060370002																				
9	East San Gabriel Valley 2	060370016	332	1.4	1.1	328	0.145	0.114	0.107	21	95	83	48	82	96	336	47.9	38.3	9.1			
10	Pomona/Walnut Valley	060371701	366	1.7	1.2	356	0.143	0.108	0.100	4	74	55	30	53	76	359	68.9	58.0	17.1			
11	South San Gabriel Valley	060371602	353	1.9	1.5	340	0.145	0.093	0.080	1	12	7	3	10	12	363	62.1	48.2	15.9			
12	South Central LA County	060371302	346	3.5	3.1	339	0.087	0.064	0.061	0	0	0	0	0	0	348	60.7	51.9	12.6			
13	Santa Clarita Valley	060376012	366	1.2	0.7	355	0.136	0.114	0.103	4	94	64	32	47	94	365	47.0	35.4	9.6			
ORANGE COUNTY																						
16	North Orange County	060595001	361	2.0	1.6	353	0.146	0.094	0.080	1	11	6	3	6	12	359	55.6	45.0	11.7			
17	Central Orange County	060590007	361	2.8	2.4	361	0.104	0.079	0.064	0	3	2	0	3	3	365	53.1	43.0	10.5			
17	I-5 Near Road ^{##}	060590008	359	3.3	2.7											362	55.8	50.9	19.8			
19	Saddleback Valley*	060592022																				
RIVERSIDE COUNTY																						
23	Metropolitan Riverside County 1	060658001	366	1.8	1.4	352	0.135	0.111	0.105	6	98	78	47	53	102	359	62.1	50.6	12.7	364	2.0	1.4
23	Metropolitan Riverside County 3	060658005	359	1.6	1.3	352	0.136	0.104	0.099	1	78	59	31	38	81	357	53.2	45.4	11.5			
25	Lake Elsinore Area	060659001	361	1.8	1.0	353	0.117	0.099	0.095	0	49	34	10	21	51	360	44.8	36.1	7.4			
26	Temecula Valley	060650016				350	0.100	0.077	0.071	0	5	2	0	1	6							
29	Banning/San Gorgonio Pass	060650012				361	0.138	0.111	0.102	2	73	53	28	42	74	358	53.5	47.4	8.5			
30	Coachella Valley 1**	060655001	364	3.4	1.1	359	0.105	0.091	0.087	0	55	27	6	8	56	364	36.5	31.1	6.4			
30	Coachella Valley 3**	060652005																				
30	Coachella Valley 4**	060652007				363	0.098	0.080	0.079	0	27	8	0	2	31							
SAN BERNARDINO COUNTY																						
32	Northwest San Bernardino Valley*	060711004																				
33	CA-60 Near Road ^{##}	060710027														360	75.7	67.1	26.4			
33	I-10 Near Road ^{##}	060710026	362	1.5	1.1											362	84.6	69.5	26.1			
34	Central San Bernardino Valley 1	060712002	345	1.6	1.1	351	0.138	0.117	0.109	5	91	77	43	63	92	359	80.0	60.3	19.4	358	5.6	1.5
34	Central San Bernardino Valley 2	060719004	364	3.8	2.9	352	0.140	0.121	0.116	12	109	92	62	82	112	359	59.1	53.6	15.7			
35	East San Bernardino Valley	060714003				363	0.147	0.131	0.117	12	111	99	69	83	114							
37	Central San Bernardino Mountains	060710005				361	0.141	0.121	0.110	8	105	90	50	61	107							
38	East San Bernardino Mountains	060718001																				
DISTRICT MAXIMUM ^e				3.8	3.1		0.147	0.131	0.117	21	111	99	69	83	114		84.6	69.5	26.4		8.2	7.5
SOUTH COAST AIR BASIN ^f				3.8	3.1		0.147	0.131	0.117	30	138	123	89	109	141		84.6	69.5	26.4		8.2	7.5

*No data due to site closure or modification in 2024.

**Salton Sea Air Basin , Coachella Valley 2 is closed and operations have moved to Coachella Valley 4

ppm - Parts Per Million in air, by volume

ppb - Parts Per Billion in air, by volume

AAM - Annual Arithmetic Mean

a) The federal and state 8-hour CO standards (9 ppm and 9.0 ppm, respectively) along with the federal and state 1-hour CO standards (35 ppm and 20 ppm, respectively) were not exceeded.

b) The current (2015) O₃ federal standard became effective December 28, 2015.

c) The NO₂ federal 1-hour standard is 100 ppb and the annual standard is 0.0534 ppm (53.4 ppb). The state 1-hour and annual standards are 0.18 ppm and 0.030 ppm, respectively.

d) 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).

e) District Maximum is the maximum value calculated at any one station in the South Coast AQMD jurisdiction.

f) Statistics are calculated with a dataset that aggregates the highest concentration at any station in the South Coast Air Basin for each day and pollutant. Therefore, concentrations are the maximum value observed at any station in the South Coast Air Basin. Number of daily exceedances are the total number of days that the indicated concentration is exceeded at any station in the South Coast Air Basin.

^{##} Four near-road sites measuring one or more of the pollutants PM_{2.5}, CO and/or NO₂ are operating near the following freeways: I-5, I-10, CA-60 and I-710.



South Coast
Air Quality Management District
Diamond Bar, CA 91765-4182
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For information on the current standard levels and most recent revisions please refer to "Appendix II – Current Air Quality" of the 2022 Air Quality Management Plan, which can be accessed at <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan#>. A map showing the source/receptor area boundaries and station locations is available at www.aqmd.gov/aqcard2024map. The South Coast AQMD Monitoring Network Plan is available at <https://www.aqmd.gov/home/air-quality/clean-air-plans/monitoring-network-plan>.

2024 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

2024			Suspended Particulates PM10 ^a					Fine Particulates PM2.5 ⁱ					Lead ^k		PM10 Sulfate ^l	
			No. Days of Data	Max 24-Hour Conc., µg/m ³	No. (%) Samples Exceeding		Annual Average Conc. ^h (AAM), µg/m ³	No. Days of Data	Max 24-Hour Conc., µg/m ³	98th Percentile 24-Hour Conc., µg/m ³	No. (%) Samples Exceeding Federal 24-Hour Standard > 35 µg/m ³	Annual Average Conc. ^j (AAM), µg/m ³	Max Monthly Average Conc., µg/m ³	Max 3-Month Rolling Average Conc., µg/m ³	No. Days of Data	Max 24-Hour Conc., µg/m ³
					Federal 24-Hour > 150 µg/m ³	State 24-Hour > 50 µg/m ³										
Source/Receptor Area No.	Location	AQS Station ID														
LOS ANGELES COUNTY																
1	Central LA	060371103	361	77	0 (0%)	10 (3%)	25.4	360	55.7	34.2	5 (1%)	12.01	0.008	0.008	61	14.1
2	Northwest Coastal LA County	060370113														
4	South Coastal LA County 2*	060374004														
4	South Coastal LA County 3	060374006														
4	South Coastal LA County 4	060374009	350	82	0 (0%)	9 (3%)	23.1	349	43.8	24.9	1 (0%)	9.13				
4	I-710 Near Road ^{##}	060374008						359	44.2	28.1	2 (1%)	11.64				
6	West San Fernando Valley	060371201						117	43.1	29.2	2 (2%)	9.87				
7	East San Fernando Valley	060374010														
8	West San Gabriel Valley	060372005						118	51.3	29.9	2 (2%)	10.89				
9	East San Gabriel Valley 1*	060370002														
9	East San Gabriel Valley 2	060370016	330	82	0 (0%)	10 (3%)	27.5									
10	Pomona/Walnut Valley	060371701														
11	South San Gabriel Valley	060371602						120	61.7	34.6	2 (2%)	12.10	0.013	0.009		
12	South Central LA County	060371302						357	57.4	32.8	6 (2%)	12.43	0.010	0.010		
13	Santa Clarita Valley	060376012	61	70	0 (0%)	1 (2%)	22.7									
ORANGE COUNTY																
16	North Orange County	060595001														
17	Central Orange County	060590007	350	118	0 (0%)	6 (2%)	26.5	361	49.7	28.7	4 (1%)	10.31			54	5.9
17	I-5 Near Road ^{##}	060590008														
19	Saddleback Valley*	060592022														
RIVERSIDE COUNTY																
23	Metropolitan Riverside County 1	060658001	357	119	0 (0%)	58 (16%)	35.9	358	63.5	34.8	5 (1%)	12.09	0.010	0.008	61	12.3
23	Metropolitan Riverside County 3	060658005	358	130	0 (0%)	116 (32%)	42.8	358	62.7	41.5	9 (3%)	13.54				
25	Lake Elsinore Area	060659001	357	81	0 (0%)	16 (4%)	25.5									
26	Temecula Valley	060650016														
29	Banning/San Gorgonio Pass	060650012	60	48	0 (0%)	0 (0%)	20.4									
30	Coachella Valley 1**	060655001	359	142	0 (0%)	13 (4%)	25.0	116	36.0	16.5	1 (1%)	6.61				
30	Coachella Valley 3**	060652005	356	153	0 (0%)	74 (21%)	41.1									
30	Coachella Valley 4**	060652007	349	143	0 (0%)	93 (27%)	43.5	338	33.5	21.3	0 (0%)	8.83				
SAN BERNARDINO COUNTY																
32	Northwest San Bernardino Valley*	060711004														
33	CA-60 Near Road ^{##}	060710027						355	64.0	39.1	10 (3%)	13.74				
33	I-10 Near Road ^{##}	060710026														
34	Central San Bernardino Valley 1	060712002	148	112	0 (0%)	48 (32%)	37.0	117	59.0	33.0	2 (2%)	12.63			61	17.1
34	Central San Bernardino Valley 2	060719004	334	148	0 (0%)	69 (21%)	36.1	109	43.2	34.3	2 (2%)	12.24	0.011	0.009		
35	East San Bernardino Valley	060714003	59	71	0 (0%)	3 (5%)	25.2									
37	Central San Bernardino Mountains	060710005	57	43	0 (0%)	0 (0%)	16.5									
38	East San Bernardino Mountains	060718001						309	20.3	14.7	0 (0%)	5.11				
DISTRICT MAXIMUM ^m				153	0	116	43.5		64.0	41.5	10	13.75	0.013	0.010		17.1
SOUTH COAST AIR BASIN ⁿ				148	0	140	42.8		64.0	41.5	16	13.75	0.013	0.010		17.1

*No data due to site closure or modification in 2024.

** Salton Sea Air Basin, Coachella Valley 2 is closed and operations have moved to Coachella Valley 4

µg/m³ – Micrograms per cubic meter of air

AAM – Annual Arithmetic Mean

g) PM10 statistics listed above are based on combined Federal Reference Method (FRM) and Federal Equivalent Method (FEM) data. High PM10 (≥ 155 µg/m³) data recorded in the Coachella Valley and the Basin (due to high winds) are excluded because they likely meet the exclusion criteria specified in the U.S. EPA Exceptional Event Rule. Exceptional event demonstrations will be submitted to U.S. EPA for events that have regulatory significance.

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

i) The PM2.5 statistics presented above represent FRM data, supplemented with FEM or SPM PM2.5 measurements to fill in for missing FRM values — except in West San Fernando Valley, South San Gabriel Valley, West San Gabriel Valley, Coachella Valley, and Central San Bernardino Valley, where only FRM data are used. PM2.5 measurements above the annual average attributed to fireworks and wildfires are excluded because they likely meet the exclusion criteria specified in the U.S. EPA Exceptional Event Rule. Exceptional event demonstrations will be submitted to U.S. EPA for events that have regulatory significance.

j) Federal standards are annual average (AAM) >9.0 µg/m³ and state standards are annual average (AAM) > 12.0 µg/m³.

k) Lead is measured in Total Suspended Particulate (TSP) samples. Federal lead standard is 3-months rolling average > 0.15 µg/m³; state standard is monthly average > 1.5 µg/m³. Note 3-month averages include data from November and December 2023. Higher lead concentrations were recorded at near-source monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded at near-source sites were 0.020 µg/m³ and 0.015 µg/m³, respectively. Lead standards were not exceeded at any site.

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

m) District Maximum is the maximum value calculated at any one station in the South Coast AQMD jurisdiction.

n) Statistics are calculated with a dataset that aggregates the highest concentration at any station in the South Coast Air Basin for each day and pollutant. Therefore, concentrations are the maximum value observed at any station in the South Coast Air Basin. Number of daily exceedances are the total number of days that the indicated concentration is exceeded at any station in the South Coast Air Basin. Statistics in concentration units are simply the maximum value at any station in the South Coast Air Basin.

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.