

# Ozone

## Number of Days Exceeding Federal and State 1-Hour Ozone Standards San Diego County 2019-2023

Station	Number of Days Exceeding Previous Federal 1-Hour Standard: Concentration > 12 pphm (See note below)					Number of Days Exceeding State 1-Hour Standard: Concentration >or equals 9.5 pphm					Maximum 1-Hour Concentration (pphm)					Date of Maximum 1-Hour Concentration				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
Chula Vista	0	0	0	0	0	0	1	0	0	0	9	11	8	8	8	10/6	9/5	4/30	5/14	10/20
El Cajon	0	0	0	0	0	0	0	0	1	1	9	9	9	10	10	9/14	6/11	4/30	5/14	8/29
Kearny Villa Rd.	0	0	0	0	0	0	2	1	1	0	8	12	10	10	9	10/6	9/5	9/4	5/14	4/21
Alpine	0	0	0	0	0	2	5	2	2	3	11	11	10	10	10	9/14	6/11	9/5	5/14	8/29
Downtown San Diego	0	0	0	0	0	0	2	0	0	0	8	12	8	9	8	10/6	9/5	9/4	9/7	4/22
Camp Pendleton	0	0	0	0	0	0	0	0	0	0	8	9	7	8	9	3/17	10/27	9/4	4/7	4/21
Donovan	0	0	0	0	0	0	3	0	1	0	7	11	9	11	9	9/14	9/5	4/30	9/28	7/14
Basinwide	0	0	0	0	0	2	8	3	2	3	11	12	10	11	10	9/14	9/5	9/5	9/28	8/29

Note: The federal 1-hour standard of 12 pphm was in effect from 1979 through June 15, 2005. Because this benchmark has been employed for such a long period, and is addressed in State Implementation Plans, we continue to reference the revoked standard for historical perspective.

# Ozone

## Number of Days Exceeding Federal and State 8-Hour Ozone Standards San Diego County 2019-2023

Station	Number of Days Exceeding 2008 Federal 8-Hour Standard: Concentration > 7.5 pphm					Number of Days Exceeding 2015 Federal 8-Hour Standard: Concentration > 7.0 pphm					Maximum 8-Hour Concentration (pphm)					Date of Maximum 8-Hour Concentration				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
<b>Chula Vista</b>	1	2	0	0	0	2	4	0	0	1	8	9	7	7	7	10/6	9/5	10/3	5/13	4/21
<b>El Cajon</b>	0	5	2	1	2	2	14	3	2	6	7	8	8	9	8	3/31	5/6	4/30	5/14	4/22
<b>Kearny Villa Rd.</b>	0	6	0	1	1	1	10	1	2	3	8	10	7	8	8	10/6	9/5	9/4	5/14	4/21
<b>Alpine</b>	4	13	6	9	10	16	24	15	24	27	8	9	8	9	9	9/14	9/4	9/5	5/14	8/29
<b>Downtown San Diego</b>	0	1	0	0	0	1	3	0	0	0	7	9	6	6	7	10/6	9/5	9/5	5/14	4/21
<b>Camp Pendleton</b>	0	0	0	0	1	0	3	0	0	1	6	7	6	7	8	10/6	10/27	4/18	4/24	4/21
<b>Donovan</b>	0	4	0	1	0	0	10	0	2	2	6	10	7	8	8	10/6	9/5	4/30	5/14	4/21
<b>Basinwide</b>	5	20	7	9	12	19	33	16	24	28	8	10	8	9	9	9/14	9/5	9/5	5/14	8/29

# Particulate Matter (PM2.5)

## Annual Average and Maximum 24-Hour Sample San Diego County 2019-2023

Station	Annual Average Federal Standard: 12.0 micrograms/m <sup>3</sup> State Standard: 12 micrograms/m <sup>3</sup>					Maximum 24-Hour Sample* Federal Standard: 35 micrograms/m <sup>3</sup>					Date of Maximum 24-Hour Sample				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
<b>Chula Vista</b>	8.1	10.7	9.5	8.3	8.9	18.6	46.7	24.9	16.2	25.5	11/11	9/15	12/6	12/22	9/23
<b>El Cajon</b>	8.6	10.3	9.7	9.0	8.4	23.8	38.2	30.2	26.4	23.2	12/22	9/14	1/1	1/5	9/23
<b>Kearny Villa Rd.</b>	7.0	8.7	7.7	6.9	7.1	16.2	47.5	20.9	13.9	24.5	11/11	9/15	12/6	6/1	9/23
<b>Carmel Mt. Ranch</b>	8.2	9.3	8.5	7.7	6.9	18.9	40.2	23.5	14.9	23.2	11/11	9/15	12/6	9/2	9/23
<b>Downtown San Diego**</b>	-	10.7	9.7	8.9	9.0	-	51.9	25.6	20.8	27.8	-	9/15	12/21	12/23	12/29
<b>Alpine***</b>					5.9					18.1					9/23
<b>Camp Pendleton***</b>					7.9					26.5					9/23
<b>Donovan***</b>					12.5					32.7					12/29
<b>San Ysidro***</b>										40.7					11/5

\* Concentrations are averaged over a 24-hour period.

\*\*Monitoring temporarily suspended October 2016 / Resumed at new location January 2020

\*\*\*Sampling began: Alpine - September 2022, Camp Pendleton and Donovan - August 2022, San Ysidro - September 2023

# Particulate Matter (PM10)

## Annual Average and Maximum 24-Hour Sample San Diego County 2019-2023

Station	Annual Average Federal Standard 50 micrograms/m <sup>3</sup> * State Standard 20 micrograms/m <sup>3</sup>					Maximum 24-Hour Sample** Federal Standard 150 micrograms/m <sup>3</sup> State Standard 50 micrograms/m <sup>3</sup>					Date of Maximum 24-Hour Sample				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
Chula Vista	19.0	24.8	23.9	22.9	23.7	68	68	46	38	51	10/30	9/12	12/6	4/11	11/13
El Cajon	19.3	23.5	22.0	21.6	20.5	38	55	40	44	42	10/29	9/15	12/6	9/1	10/29
Donovan	31.1	49.7	42.5	41.7	44.9	199	174	122	243	175	10/30	9/30	11/12	9/8	1/26
Kearny Villa Rd.***					21.7					55					8/28
Carmel Mt. Ranch***					19.2					44					10/29
Downtown San Diego***					21.6					46					4/22
Alpine***					16.4					42					10/29
Camp Pendleton***					20.9					95					2/22
San Ysidro***					-					116					10/29

\*Federal annual standard revoked December 17, 2006 (Data are shown for continuity with previous reports).

\*\*Concentrations are averaged over a 24-hour period.

\*\*\*Sampling began: Alpine - September 2022, Camp Pendleton - August 2022, San Ysidro - September 2023, Downtown - May 2022  
Kearny Villa Rd & Carmel Mt. Ranch - June 2023

# Carbon Monoxide

## Maximum 1-Hour and 8-Hour Average Concentrations San Diego County 2019-2023

Station	Maximum 1-Hour Concentration (ppm) Federal Standard: 35 ppm State Standard: 20 ppm					Date of Maximum 1-Hour Concentration					Maximum 8-Hour Concentration (ppm) Federal Standard: 9 ppm State Standard: 9.0 ppm					Date of Maximum 8-Hour Concentration				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
<b>El Cajon</b>	1.3	1.5	1.2	1.4	1.1	12/31	12/24	12/20	12/25	2/3	1.0	1.4	1.1	1.1	0.9	12/21	12/25	12/21	12/25	11/12
<b>Carmel Mt. Ranch</b>	4.1	3.3	3.0	2.2	1.6	12/22	1/5	10/11	2/12	7/25	2.5	1.7	1.8	1.2	1.1	11/27	1/3	10/11	1/7	11/9
<b>San Ysidro*</b>					2.7					12/6				2.1						11/15

\* Sampling began September 2023

# Nitrogen Dioxide

## Annual Average and Maximum 1-Hour Concentration San Diego County 2019-2023

Station	Annual Average (ppb) Federal Standard: 53 ppb State Standard: 30 ppb					Maximum 1-Hour Concentration (ppb) Federal Standard: 100 ppb State Standard: 180 ppb					Date of Maximum 1-Hour Concentration				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
<b>Chula Vista</b>	8	8	7	9	8	50	45	46	52	52	11/8	12/1	1/14	1/6	11/14
<b>El Cajon</b>	8	8	6	8	7	39	44	38	36	39	12/21	12/7	1/13	1/13	12/18
<b>Kearny Villa Rd.</b>	7	7	6	8	6	46	52	60	51	38	11/8	11/5	12/21	1/14	12/11
<b>Alpine</b>	3	3	4	3	3	29	21	35	30	27	12/13	1/24	11/16	1/31	1/13
<b>Downtown San Diego</b>	12	9	9	10	10	62	53	54	53	54	10/24	11/5	10/28	4/7	11/4
<b>Camp Pendleton</b>	4	5	5	5	5	53	58	59	50	63	12/20	11/5	12/21	2/8	12/5
<b>Donovan</b>	7	8	7	7	7	86	56	61	64	59	12/3	10/6	1/8	1/14	8/30
<b>Carmel Mt. Ranch</b>	14	13	13	15	14	54	54	54	56	53	11/8	9/17	4/1	3/2	4/20
<b>San Ysidro*</b>					-					58					12/11

\* Sampling began September 2023

# Sulfur Dioxide

## Annual Average and Maximum 1-Hour and 24-Hour Concentrations San Diego County 2019-2023

Station	Annual Average (ppm) Federal Standard: 0.030 ppm					Maximum 24-Hour Concentration (ppm) State Standard: 0.04 ppm					Maximum 1-Hour Concentration (ppm) State Standard: 0.25 ppm Federal Standard: 0.75 ppm*					Date of Maximum 1-Hour Concentration				
	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23	19	20	21	22	23
El Cajon	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.001	9/22	5/5	7/10	4/27	12/10

\*Federal 1-hour Standard is based on the 3-year average of the 99th percentile of 1-hour daily maximum concentrations.