

# Ozone

## Number of Days Exceeding Federal and State 1-Hour Ozone Standards San Diego County 2004-2008\*

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 > 9 pphm					Maximum 1-Hour Concentration (pphm)					Date of Maximum 1-Hour Concentration				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
Chula Vista	0	0	0	0	0	1	1	0	0	1	11	11	8	9	10	10/8	5/8	6/3	10/10	5/3
El Cajon	0	0	0	0	0	3	2	2	0	1	11	11	11	9	10	6/21	9/1	6/3	4/15	10/9
Kearny Mesa	0	0	0	0	0	4	0	1	0	6	10	9	11	8	11	10/26	3/16	6/3	4/15	5/2
Del Mar	0	0	0	0	1	2	0	0	0	3	12	9	9	8	13	10/8	5/8	9/18	8/25	10/8
Escondido	0	0	0	0	0	9	0	3	1	2	12	9	11	10	10	6/20	8/31	7/22	9/3	4/27
Alpine	2	1	0	0	0	13	17	21	13	5	14	13	12	11	11	6/20	9/1	7/1	7/13	5/31
Downtown SD (12th)**	-	-	-	0	0	-	-	-	0	0	-	-	-	7	9	-	-	-	5/12	9/5
Downtown SD (Beardsley)**	0	0	0	0	-	0	0	0	0	-	9	9	8	7	-	11/17	10/19	2/26	8/25	
Camp Pendleton	0	0	0	0	0	1	0	0	0	4	10	8	9	9	11	11/16	3/16	9/18	8/25	5/3
Otay Mesa	0	0	0	0	0	2	0	0	2	1	10	9	9	11	10	6/19	9/2	7/22	10/6	4/27
Basinwide	2	1	0	0	1	18	18	23	16	12	14	13	12	11	13	6/20	9/1	7/1	7/13	10/8

\* Ozone data for October 21-28, 2007, was designated as “exceptional event” data due to wildfires and is not included in this table.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

**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 because it is addressed in State Implementation Plans, we will continue to reference the revoked standard for historical perspective.

# Ozone

## Number of Days Exceeding Federal and State 8-Hour Ozone Standards San Diego County 2004-2008\*

Station	Number of Days Exceeding Federal 8-Hour Standard Concentration > 8.5 pphm***					Number of Days Exceeding State 8-Hour Standard Concentration > 7.0 pphm					Maximum 8-Hour Concentration (pphm)					Date of Maximum 8-Hour Concentration				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
<b>Chula Vista</b>	0	1	0	0	1	4	2	0	State 8-Hour Standard adopted in 2006	8	9	7	8	9	4/26	5/8	5/11	4/6	5/3	
<b>El Cajon</b>	3	0	1	0	0	10	3	9		9	8	9	7	8	6/21	9/1	6/3	5/13	4/25	
<b>Kearny Mesa</b>	3	0	1	0	2	8	4	2		9	8	9	7	9	4/26	5/8	6/3	5/12	5/2	
<b>Del Mar</b>	0	0	0	0	3	9	3	1		8	8	7	7	10	4/26	5/8	9/18	4/17	10/8	
<b>Escondido</b>	7	0	2	0	2	22	5	10		10	8	10	8	9	6/20	9/1	7/22	4/16	4/27	
<b>Alpine</b>	10	6	14	5	2	58	42	63		11	9	10	9	9	6/19	9/2	7/1	5/14	10/9	
<b>Downtown SD (12th)**</b>	-	-	-	0	0	-	-	-		-	-	-	-	6	7	-	-	-	4/17	9/5
<b>Downtown SD (Beardsley)**</b>	0	0	0	0	-	1	0	0		7	7	7	6	-	4/26	3/16	2/26	9/17	-	
<b>Camp Pendleton</b>	0	0	0	0	2	3	4	5		8	7	7	7	10	4/27	5/18	2/26	4/17	10/8	
<b>Otay Mesa</b>	1	0	0	0	0	3	1	0		9	7	7	7	8	4/26	9/2	4/20	10/6	4/27	
<b>Basinwide</b>	11	7	14	5	8	65	43	68	11	9	10	9	10	6/19	9/2	7/1	5/14	10/8		

\* Ozone data for October 21-28, 2007, was designated as "exceptional event" data due to wildfires and is not included in this table.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

\*\*\* Federal 8-hour standard was revised to > 7.5 pphm on March 12, 2008, to become effective March 12, 2009.

# Carbon Monoxide

## Maximum 1-Hour and 8-Hour Average Concentrations San Diego County 2004-2008

Station	Maximum 1-Hour Concentration in ppm Federal Standard 35 ppm State Standard 20 ppm					Date of Maximum 1-Hour Concentration					Maximum 8-Hour Concentration in ppm Federal Standard 9 ppm State Standard 9.0 ppm					Date of Maximum 8-Hour Concentration				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
<b>Chula Vista</b>	2.5	3.1	2.7	2.8	3.9	10/29	1/26	11/15	11/23	2/12	1.9	2.2	2.2	2.1	2.5	10/29	1/24	11/15	11/23	1/10
<b>Escondido</b>	5.6	5.2	5.7	5.9	5.3	10/30	1/9	12/5	1/20	12/11	2.8	3.2	3.6	3.1	3.6	1/2	12/24	12/25	1/20	12/11
<b>SD curbside (Union)*</b>	-	8.7	10.8	5.3	6.3	-	11/6	12/9	1/19	1/14	-	5.2	3.5	3.9	3.8	-	12/27	1/6	1/14	1/1
<b>Downtown SD (12th)**</b>	-	-	-	6.4	4.9	-	-	-	4/18	8/10	-	-	-	4.7	4.0	-	-	-	4/16	1/11
<b>Downtown SD (Beardsley)**</b>	3.5	4.4	5.3	4.5		10/29	1/24	2/8	12/21	-	2.6	3.0	3.3	3.1	-	11/22	1/9	12/7	12/20	-
<b>Otay Mesa</b>	4.6	5.7	5.1	7.9	6.9	11/13	11/13	12/14	12/6	12/14	3.5	3.4	3.4	3.7	4.1	11/14	10/26	12/15	12/6	12/14

\* Monitoring discontinued in 2008.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

# Nitrogen Dioxide

Annual Average and Maximum 1-Hour Concentration  
San Diego County 2004-2008

Station	Annual Average Federal Standard – .053 ppm State Standard – .030 ppm*					Maximum 1-Hour Concentration (ppm) State Standard > .18 ppm*					Date of Maximum 1-Hour Concentration				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
Chula Vista	.015	.015	.017	.016	.016	.072	.082	.074	.071	.072	11/21	10/24	10/27	11/15	5/2
El Cajon	.016	.015	.018	.019	.019	.063	.065	.069	.079	.075	10/28	10/24	10/27	11/23	1/13
Kearny Mesa	.014	.015	.017	.017	.017	.077	.087	.091	.076	.085	11/18	10/22	11/15	10/14	1/10
Escondido	.018	.016	.017	.016	.018	.081	.072	.071	.076	.080	10/27	11/28	11/22	10/13	10/8
Alpine	.008	.010	.010	.011	.011	.047	.057	.057	.061	.063	12/1	11/20	2/3	11/23	3/18
Downtown SD (12th)**	-	-	-	.020	.020	-	-	-	.091	.094	-	-	-	1/13	5/3
Downtown SD (Beardsley)**	.019	.018	.021	.023		.091	.098	.094	.100		10/8	10/24	12/7	11/15	-
Camp Pendleton	.010	.011	.011	.012	.012	.089	.068	.081	.077	.099	11/18	1/25	5/12	1/14	1/13
Otay Mesa	.024	.022	.024	.024	.023	.123	.101	.097	.109	.125	10/28	6/20	12/7	9/6	9/1

\* The state standard was amended on February 22, 2007, lowering the 1-hour standard from 0.25 ppm to 0.18 ppm and establishing a new annual standard of 0.030 ppm. The new standards became effective March 20, 2008.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

# Particulate Matter (PM<sub>10</sub>)

Annual Arithmetic Mean and Maximum 24-Hour Sample  
San Diego County 2004-2008\*

Station	Annual Arithmetic Mean 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				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
Chula Vista	26	25	26	27	26	53	51	51	52	44	10/27	11/20	10/26	10/7	1/16
El Cajon	27	26	27	28	30	40	48	47	48	55	1/1	1/10	12/7	12/12	3/22
Kearny Mesa	24	22	22	22	25	41	44	42	44	44	10/27	11/20	6/16	10/13	4/29
Escondido	25	24	24	24	27	82	57	51	42	57	1/1	11/2	12/25	10/13	1/10
Downtown SD (12th)**	-	-	-	28	33	-	-	-	76	68	-	-	-	1/10	12/17
Downtown SD (Beardsley)**	29	30	34	37		58	55	71	77	-	10/27	4/12	12/7	9/1	-
Otay Mesa (see note below)	56	47	54	58	51	158	143	133	155	137	10/27	11/26	12/7	10/13	12/15
Donovan (see note below)	27	-	-	-	-	99	-	-	-	-	10/27	-	-	-	-

\* PM<sub>10</sub> data for October 21-27, 2007, was designated as “exceptional event” data due to wildfires and is not included in this table.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

\*\*\* Federal annual standard revoked December 17, 2006.

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

**Note:** PM<sub>10</sub> concentrations at the Otay Mesa site are heavily influenced by the site’s proximity to the truck border crossing at the U.S.-Mexico port of entry. To better measure concentrations representing the Otay Mesa area as a whole, a parallel monitor – Donovan – was established two miles north of the existing monitor, which is not unduly influenced by specific local sources.

# Particulate Matter (PM<sub>2.5</sub>)

Annual Average and Maximum 24-Hour Sample  
San Diego County 2004-2008\*

Station	Annual Average Federal Standard 15 micrograms/m <sup>3</sup> State Standard 12 micrograms/m <sup>3</sup>					Maximum 24-Hour Sample <sup>***</sup> Federal Standard 35 micrograms/m <sup>3</sup>					Date of Maximum 24-Hour Sample				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
Chula Vista	12	11	11	12	12	33	46	30	34	33	10/27	11/20	2/4	11/6	3/16
El Cajon	13	12	11	11	13	31	43	38	41	44	11/23	11/20	2/5	10/21	1/1
Kearny Mesa	11	10	11	10	11	27	31	26	29	29	11/23	11/20	2/4	3/11	3/19
Escondido	12	12	11	12	14	31	36	41	43	67	4/5	12/25	12/25	1/1	1/1
Downtown SD (12th) <sup>**</sup>	-	-	-	11	14	-	-	-	32	43	-	-	-	1/22	1/9
Downtown SD (Beardsley) <sup>**</sup>	14	12	13	16	-	42	52	63	44	-	1/11	12/11	12/5	11/15	-

\* PM<sub>2.5</sub> data for October 21-November 8, 2007, was designated as “exceptional event” data due to wildfires and is not included in this table.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

\*\*\* Concentrations are averaged over a 24-hour period; as of December 17, 2006, standard changed from 65 to 35 micrograms per cubic meter.

# Sulfur Dioxide

## Annual Average and Maximum 1-Hour and 3-Hour Concentrations San Diego County 2004-2008

Station	Annual Average in pphm Federal Standard 3 pphm					Maximum 24-Hour Concentration in pphm Federal Standard 14 pphm State Standard 4 pphm					Maximum 3-Hour Concentration in pphm Federal Standard 50 pphm*					Maximum 1-Hour Concentration in pphm State Standard 25 pphm				
	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04	08	07	06	05	04
<b>Chula Vista</b>	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.5	1.5	0.1	0.7	1.3	0.9	2.1	0.1	1.2	1.7	1.6	4.2
<b>Downtown SD (12th)**</b>	-	-	-	0.2	0.4	-	-	-	0.6	0.9	-	-	-	1.9	2.0	-	-	-	4.0	4.2
<b>Downtown SD (Beardsley)**</b>	0.3	0.3	0.4	0.3		0.8	0.6	0.9	0.9	-	0.2	1.0	3.0	2.6	-	0.4	1.8	3.4	3.6	-
<b>Otay Mesa</b>	0.2	0.3	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4	0.2	1.7	2.1	3.1	2.8	0.3	2.7	4.5	4.0	4.5

\* The 3-hour maximum is a secondary standard.

\*\* Downtown San Diego monitoring station moved July 14, 2005, from 12th Avenue to Beardsley Street.

**Note:** Secondary standards set limits to protect public welfare, which includes visibility and vegetation. For most other pollutants, the secondary standards are the same as the primary standards that protect public health.