

**Monthly Average Elemental Carbon Concentrations Measured in the  
Port of Los Angeles Monitoring Network**

**February 2005 - January 2023**

Month	Port of Los Angeles Monitoring Sites			
	Wilmington Community Site	Coastal Boundary Site	San Pedro Community Site	Source- Dominated Site
	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )
Feb - 05	1.57	1.01	1.46	--
Mar - 05	0.88	0.81	0.73	--
Apr - 05	0.95	0.58	1.00	0.29
May - 05	0.91	0.55	0.92	1.25
Jun - 05	0.73	0.36	0.62	1.01
Jul - 05	1.01	0.51	0.95	1.22
Aug - 05	0.98	0.55	1.19	1.71
Sep - 05	1.56	1.07	1.74	2.76
Oct - 05	1.72	1.14	1.73	3.50
Nov - 05	2.18	2.04	2.27	3.91
Dec - 05	3.26	2.13	2.87	4.50
Jan - 06	2.32	1.84	2.31	3.21
Feb - 06	2.12	1.66	1.51	3.29
Mar - 06	0.94	0.44	0.92	1.62
Apr - 06	0.85	0.53	0.73	1.48
May - 06	0.93	0.51	0.81	1.20
Jun - 06	1.00	0.61	1.27	1.57
Jul - 06	1.10	0.77	1.14	1.65
Aug - 06	0.92	0.56	1.03	1.52
Sep - 06	1.42	0.70	1.82	1.95

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Oct - 06	1.92	1.13	1.62	3.07
Nov - 06	2.73	2.34	2.67	4.68
Dec - 06	3.26	2.30	2.38	4.52
Jan - 07	3.57	2.11	2.49	4.39
Feb - 07	1.71	1.45	1.89	3.24
Mar - 07	1.22	1.24	1.36	1.85
Apr - 07	0.67	0.41	0.79	1.16
May - 07	0.87	0.50	0.92	0.77
Jun - 07	0.68	0.95	0.80	1.01
Jul - 07	0.75	1.24	0.72	0.93
Aug - 07	0.87	1.17	1.22	1.44
Sep - 07	1.11	0.64	1.33	1.72
Oct - 07	1.58	1.28	1.95	3.01
Nov - 07	2.67	1.61	2.26	3.36
Dec - 07	3.13	1.77	2.25	3.37
Jan - 08	1.66	1.03	1.56	2.70
Feb - 08	1.54	1.59	1.58	3.04
Mar - 08	0.90	0.77	1.10	1.78
Apr - 08	0.68	0.50	0.75	1.18
May - 08	0.57	0.36	0.64	0.86
Jun - 08	0.62	0.39	0.94	1.08
Jul - 08	0.53	0.35	0.78	0.96
Aug - 08	0.55	0.43	0.74	0.99

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Sep - 08	0.74	0.59	1.30	1.96
Oct - 08	1.22	1.40	2.03	2.84
Nov - 08	0.87	1.74	1.79	2.59
Dec - 08	1.42	1.07	1.23	2.28
Jan - 09	1.87	1.51	1.71	3.06
Feb - 09	0.94	0.64	1.01	1.39
Mar - 09	0.72	0.51	0.89	1.17
Apr - 09	0.61	0.34	0.77	0.70
May - 09	0.42	0.20	0.50	0.45
Jun - 09	0.29	0.11	0.34	0.53
Jul - 09	0.49	0.26	0.73	0.65
Aug - 09	0.52	0.39	0.94	0.86
Sep - 09	0.61	0.36	0.86	0.87
Oct - 09	0.79	0.46	0.82	1.02
Nov - 09	1.46	1.26	1.56	2.34
Dec - 09	2.00	1.54	1.88	2.50
Jan - 10	1.62	1.41	1.92	2.31
Feb - 10	0.98	0.65	1.14	1.38
Mar - 10	0.51	0.49	0.69	0.82
Apr - 10	0.42	0.25	0.47	0.65
May - 10	0.35	0.15	0.34	0.44
Jun - 10	0.33	0.12	0.31	0.34
Jul - 10	0.45	0.17	0.51	0.52

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Aug - 10	0.50	0.27	0.77	0.79
Sep - 10	0.67	0.35	0.83	0.95
Oct - 10	0.70	0.36	0.67	0.87
Nov - 10	1.18	0.91	1.14	1.63
Dec - 10	1.87	1.15	1.82	1.67
Jan - 11	1.56	1.31	1.78	1.91
Feb - 11	0.91	0.74	0.81	1.09
Mar - 11	0.79	0.47	0.81	0.89
Apr - 11	0.42	0.43	0.55	0.59
May - 11	0.33	0.37	0.56	0.52
Jun - 11	0.36	0.14	0.42	0.36
Jul - 11	0.37	0.15	0.38	0.37
Aug - 11	0.49	0.18	0.48	0.50
Sep - 11	0.51	0.27	0.46	0.74
Oct - 11	0.75	0.52	0.75	1.04
Nov - 11	1.29	1.12	1.18	2.10
Dec - 11	1.55	1.17	1.21	2.52
Jan-12	1.39	1.15	0.61	2.30
Feb-12	0.54	0.62	0.55	1.21
Mar-12	0.29	0.36	0.63	0.44
Apr-12	0.30	0.10	0.36	0.50
May-12	0.24	0.07	0.24	0.14
Jun-12	0.24	0.09	0.36	0.25

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Jul-12	0.37	0.11	0.49	0.33
Aug-12	0.34	0.24	0.69	0.55
Sep – 12	0.33	0.19	0.91	0.80
Oct – 12	0.25	0.35	0.54	0.83
Nov – 12	0.63	0.50	0.83	0.92
Dec - 12	0.78	0.68	0.98	1.44
Jan-13	1.64	1.08	1.40	1.92
Feb-13	0.62	0.45	0.63	0.99
Mar-13	0.55	0.31	0.58	0.61
Apr-13	0.29	0.19	0.44	0.32
May-13	0.26	0.14	0.39	0.30
Jun-13	0.23	0.09	0.28	0.29
Jul-13	0.35	0.15	0.53	0.49
Aug-13	0.42	0.14	0.66	--
Sep-13	0.59	0.26	0.88	0.80
Oct-13	0.71	0.47	0.84	1.03
Nov-13	1.00	0.66	0.91	1.13
Dec-13	2.06	0.93	1.31	1.61
Jan-14	2.26	1.31	1.82	2.39
Feb-14	0.86	0.49	0.83	1.05
Mar-14	0.59	0.26	0.66	0.85
Apr-14	0.48	0.21	0.72	0.58
May-14	0.20	0.18	0.34	0.29

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Jun-14	0.24	0.10	0.43	0.24
Jul-14	0.24	0.14	0.42	0.38
Aug-14	0.31	0.18	0.55	0.49
Sep-14	0.31	0.30	0.84	0.74
Oct-14	0.84	0.42	0.87	0.87
Nov-14	1.35	0.86	1.30	1.40
Dec-14	1.42	0.88	1.16	1.27
Jan-15	1.37	1.49	1.19	1.16
Feb-15	0.87	--	0.94	0.90
Mar-15	0.79	--	0.86	0.70
Apr-15	0.47	0.28	0.60	0.54
May-15	0.22	0.08	0.22	0.22
Jun-15	0.31	0.54	0.32	0.22
Jul-15	0.21	0.10	0.15	0.19
Aug-15	0.27	0.24	0.45	0.30
Sep-15	0.62	0.31	0.64	0.47
Oct-15	0.67	0.51	0.75	0.68
Nov-15	0.96	0.97	1.09	0.82
Dec-15	1.09	0.67	0.98	0.78
Jan-16	1.08	0.67	0.97	0.78
Feb-16	0.99	0.76	0.82	0.79
Mar-16	0.49	0.38	0.47	0.33
Apr-16	0.38	0.58	0.42	0.35

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May-16	0.26	0.38	0.18	0.16
Jun-16	0.46	0.42	0.45	0.34
Jul-16	0.23	0.28	0.35	0.24
Aug-16	0.25	0.32	0.32	0.26
Sep-16	0.41	0.13	0.59	0.42
Oct-16	0.67	0.40	0.71	0.57
Nov-16	1.27	0.72	1.00	1.00
Dec-16	1.01	0.63	0.87	0.77
Jan-17	1.12	0.61	0.94	0.82
Feb-17	0.56	0.27	0.63	0.51
Mar-17	0.55	0.38	0.63	0.64
Apr-17	0.34	0.17	0.38	0.38
May-17	0.21	0.17	0.23	0.28
June-17	0.29	0.18	0.35	0.36
July-17	0.25	0.16	0.37	0.24
Aug-17	0.29	0.19	0.37	0.28
Sep-17	0.53	0.44	0.61	0.42
Oct-17	0.74	0.39	0.71	0.56
Nov-17	1.00	0.61	1.09	0.86
Dec-17	2.17	0.94	1.46	1.41
Jan-18	1.20	0.86	1.12	1.11
Feb-18	1.07	0.65	0.66	0.81
Mar-18	0.52	0.30	0.41	0.40

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Apr-18	0.36	0.24	0.38	0.30
May-18	0.24	0.10	0.29	0.18
Jun-18	0.13	0.14	0.32	0.26
Jul-18	0.16	0.23	0.40	0.29
Aug-18	0.47	0.47	0.52	0.41
Sep-18	0.47	0.29	0.53	0.47
Oct-18	0.73	0.61	0.78	0.62
Nov-18	1.55	0.98	1.34	1.13
Dec-18	1.51	0.83	1.13	1.10
Jan-19	0.97	0.73	0.99	1.01
Feb-19	0.59	0.39	0.43	0.52
Mar-19	0.47	0.33	0.49	0.47
Apr-19	0.16	0.11	0.33	0.19
May-19	0.17	0.21	0.25	0.20
Jun-19	0.12	0.14	0.31	0.21
July-19	0.20	0.18	0.44	0.29
Aug-19	0.33	0.29	0.51	0.36
Sep-19	0.39	0.31	0.62	0.40
Oct-19	0.64	0.59	0.75	0.77
Nov-19	0.87	0.72	0.99	0.91
Dec-19	0.98	0.69	0.95	0.96
Jan-20	1.22	0.83	1.17	1.04
Feb-20	0.83	0.78	0.80	0.75



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Mar-20	0.34	0.18	0.36	0.31
Apr-20	0.33	0.26	0.34	0.30
May-20	0.28	--	0.39	0.36
Jun-20	0.31	--	0.33	0.22
Jul-20	0.27	--	0.38	0.32
Aug-20	0.44	--	0.61	0.45
Sep-20	1.10	--	1.32	0.92
Oct-20	1.06	--	1.19	0.94
Nov-20	1.28	--	1.08	1.17
Dec-20	1.52	--	1.30	1.19
Jan-21	1.21	--	1.02	0.93
Feb-21	0.79	--	0.68	0.63
Mar-21	0.43	--	0.50	0.56
Apr-21	0.41	--	0.39	0.46
May-21	0.14	--	0.17	--
Jun-21	0.28	--	0.18	--
Jul-21	0.41	--	0.45	--
Aug-21	0.58	--	0.71	--
Sep-21	0.48	--	0.66	--
Oct-21	0.68	--	0.81	--
Nov-21	1.10	--	1.16	--
Dec-21	1.24	--	0.80	--
Jan-22	1.25	--	1.23	--

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Feb-22	0.87	--	0.87	--
Mar-22	0.65	--	0.66	--
Apr-22	0.37	--	0.39	--
May-22	0.31	0.17	0.32	0.26
Jun-22	0.23	0.11	0.30	0.27
Jul-22	0.16	0.15	0.25	0.29
Aug-22	0.34	0.26	0.58	0.44
Sep-22	0.53	0.36	0.63	0.44
Oct-22	0.51	0.45	0.58	0.58
Nov-22	1.08	0.68	0.85	0.84
Dec-22	1.00	0.91	0.86	0.88
Jan-23	0.64	0.55	0.62	0.56

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2005	1.43	0.98	1.43	2.46
2006	1.63	1.15	1.54	2.48
2007	1.56	1.21	1.49	2.19
2008	0.95	0.80	1.23	1.85
2009	0.90	0.63	1.01	1.30
2010	0.81	0.53	0.85	1.04
2011	0.74	0.55	0.73	1.02
2012	0.45	0.37	0.60	0.82
2013	0.74	0.41	0.74	0.83
2014	0.77	0.44	0.85	0.86
2015	0.67	0.47	0.69	0.58
2016	0.62	0.48	0.60	0.50
2017	0.65	0.37	0.65	0.56
2018	0.71	0.47	0.66	0.59
2019	0.49	0.39	0.59	0.53
2020	0.74	--	0.77	0.67
2021	0.65	--	0.63	--
2022	0.61	0.39	0.63	0.50

- Elemental Carbon (EC) is considered to be a surrogate for diesel particulate matter (DPM).
- No health-based federal/state standards have been established for EC.
- The EC average for 2005 is based on 11 months of data (Feb-Dec).
- EC monitoring at Coastal Boundary Station suspended April 25, 2020 to May 1, 2022.
- EC monitoring at Source-Dominated Station suspended May 1, 2021 to May 1, 2022.
- Annual EC average for 2022 is based on 12 months of data (Jan-December) for Wilmington and San Pedro Community stations.
- Annual EC average for 2022 is based on 8 months of data (May-December) for Source-Dominated and Coastal Boundary stations.