

Estimation of 3-Month Lead Averages

Updated 12/16/16

Units in ug/m³

50% NAAQS: 0.075 ug/m³

(50% NAAQS = keep monitoring)

Data Handling Caveats:

Only "credible" samples used in the calculation of the monthly average.

Lead data should be reported using 4 significant figures w/ truncation to 4th significant figure.

For previous NAAQS, all digits are retained in calculations until the end. This convention was used here, but it is uncertain what the current lead convention is.

The 3-month mean is rounded to nearest hundredth, and compared to 0.15 ug/m³.

* POC 2 not for comparison to NAAQS

monitor type:		source-oriented		source-oriented		NCORE		NCORE		NATTS		NATTS precision		source-oriented		source-oriented		source-oriented		pilot project site	
Year	Month	Belding (Merrick St)		Belding (Reed St)		Grand Rapids		Allen Park		Dearborn POC 1		Dearborn POC 2*		Port Huron Rural St		Vassar		E Jordan		Oakland Co Airport	
		Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg
2010	1	0.09350	---	---	---	0.003306	---	0.004981	---	0.009532	---	0.009435	---	---	---	---	---	---	---	---	---
2010	2	0.2025	---	---	---	0.003652	---	0.003500	---	0.01373	---	0.005155	---	---	---	---	---	---	---	---	---
2010	3	0.02368	0.11	---	---	0.006590	0.00	0.005872	0.00	0.01251	0.01	0.01045	0.01	---	---	---	---	---	---	---	---
2010	4	0.2645	0.16	---	---	0.005840	0.01	0.005373	0.00	0.01922	0.02	0.02100	0.01	---	---	---	---	---	---	---	---
2010	5	0.3609	0.22	---	---	0.008090	0.01	0.003926	0.01	0.009468	0.01	0.009043	0.01	---	---	---	---	---	---	---	---
2010	6	0.2264	0.28	---	---	0.005897	0.01	0.005536	0.00	0.008290	0.01	0.008784	0.01	---	---	---	---	---	---	---	---
2010	7	0.1368	0.24	---	---	0.005524	0.01	0.005434	0.00	0.01015	0.01	0.01058	0.01	---	---	---	---	---	---	---	---
2010	8	0.4131	0.26	---	---	0.005998	0.01	0.005099	0.01	0.01327	0.01	0.01478	0.01	---	---	---	---	---	---	---	---
2010	9	0.07521	0.21	---	---	0.005832	0.01	0.005224	0.01	0.008605	0.01	0.007987	0.01	---	---	---	---	---	---	---	---
2010	10	0.2934	0.26	---	---	0.007936	0.01	0.007067	0.01	0.01303	0.01	0.01156	0.01	---	---	---	---	---	---	---	---
2010	11	0.01609	0.13	---	---	0.006131	0.01	0.005444	0.01	0.01395	0.01	0.01032	0.01	---	---	---	---	---	---	---	---
2010	12	0.03450	0.11	---	---	0.004933	0.01	0.003590	0.01	0.01499	0.01	0.01665	0.01	---	---	---	---	---	---	---	---
2011	1	0.1947	0.08	---	---	0.004465	0.01	0.004502	0.00	0.008732	0.01	0.009330	0.01	---	---	---	---	---	---	---	---
2011	2	0.09663	0.11	---	---	0.004034	0.00	0.003188	0.00	0.004999	0.01	0.005312	0.01	---	---	---	---	---	---	---	---
2011	3	0.04045	0.11	---	---	0.005021	0.00	0.005759	0.00	0.008949	0.01	0.01233	0.01	---	---	---	---	---	---	---	---
2011	4	0.06084	0.07	---	---	0.004543	0.00	0.005220	0.00	0.008881	0.01	0.009242	0.01	---	---	---	---	---	---	---	---
2011	5	0.01283	0.04	---	---	0.003220	0.00	0.004798	0.01	0.009242	0.01	0.008327	0.01	---	---	---	---	---	---	---	---
2011	6	0.03049	0.03	---	---	0.006657	0.00	0.006947	0.01	0.03442	0.02	0.03674	0.02	---	---	---	---	---	---	---	---
2011	7	0.1716	0.07	0.2987	---	0.005897	0.01	0.006863	0.01	0.02365	0.02	0.02589	0.02	---	---	---	---	---	---	0.02327	---
2011	8	0.1276	0.11	0.0587	---	0.008326	0.01	0.006360	0.01	0.01160	0.02	0.01133	0.02	---	---	---	---	---	---	0.02523	---
2011	9	0.0389	0.11	0.1805	0.18	0.01006	0.01	0.005238	0.01	0.01071	0.02	0.01283	0.02	---	---	---	---	---	---	0.01726	0.02
2011	10	0.0915	0.09	0.0385	0.09	0.005237	0.01	0.005016	0.01	0.013989	0.01	0.01002	0.01	---	---	0.01213	---	---	---	0.02777	0.02
2011	11	0.0249	0.05	0.0169	0.08	0.003574	0.01	0.004770	0.01	0.006177	0.01	0.004348	0.01	---	---	0.01709	---	0.004491	---	0.01299	0.02
2011	12	0.0065	0.04	0.0203	0.03	0.004456	0.00	0.002965	0.00	0.004149	0.01	0.006116	0.01	---	---	0.002799	0.01	0.003349	---	0.01801	0.02
2012	1	0.0363	0.02	0.0530	0.03	0.00529	0.00	0.00454	0.00	0.01127	0.01	0.01026	0.01	---	---	0.02759	0.02	0.00231	0.00	0.02250	0.02
2012	2	0.02766	0.02	0.05834	0.04	0.00414	0.00	0.00477	0.00	0.01417	0.01	0.01968	0.01	---	---	0.07432	0.03	0.00773	0.00	0.01646	0.02
2012	3	0.02079	0.03	0.03699	0.05	0.00836	0.01	0.00518	0.00	0.00962	0.01	0.017217	0.02	---	---	0.01624	0.04	0.00813	0.01	0.02750	0.02
2012	4	0.06218	0.04	0.03488	0.04	0.00416	0.01	0.00471	0.00	0.01399	0.01	0.00951	0.02	---	---	0.00975	0.03	0.00293	0.01	0.00717	0.02
2012	5	0.05919	0.05	0.04893	0.04	0.00576	0.01	0.00591	0.01	0.01480	0.01	0.01221	0.01	---	---	0.02736	0.02	0.00395	0.01	0.01953	0.02
2012	6	0.06243	0.06	0.04813	0.04	0.00512	0.01	0.00573	0.01	0.01733	0.02	0.02030	0.02	---	---	0.01957	0.02	0.01073	0.01	0.01625	0.01
2012	7	0.03318	0.05	0.02104	0.04	0.00363	0.00	0.00446	0.01	0.00970	0.01	0.00787	0.01	---	---	0.01954	0.02	0.00314	0.01	0.01773	0.02
2012	8	0.04604	0.05	0.06473	0.04	0.00655	0.01	0.00661	0.01	0.00932	0.01	0.01510	0.01	---	---	0.01601	0.02	0.00644	0.01	0.01776	0.02
2012	9	0.03192	0.04	0.05056	0.05	0.00554	0.01	0.00451	0.01	0.01220	0.01	0.01250	0.01	---	---	0.04926	0.03	0.00966	0.01	---	---
2012	10	0.02298	0.03	0.01916	0.04	0.00286	0.00	0.00297	0.00	0.00757	0.01	0.00767	0.01	---	---	0.00315	0.02	0.00176	0.01	---	---
2012	11	0.01688	0.02	0.02020	0.03	0.00493	0.00	0.00496	0.00	0.01327	0.01	0.01577	0.01	0.03003	---	0.01093	0.02	0.00303	0.00	---	---
2012	12	0.01431	0.02	0.01808	0.02	0.00290	0.00	0.00406	0.00	0.01700	0.01	0.00756	0.01	0.00311	---	0.00190	0.01	---	---	---	---

Year	Month	Belding (Merrick St)		Belding (Reed St)		Grand Rapids		Allen Park		Dearborn POC 1		Dearborn POC 2*		Port Huron Rural St		Vassar		E Jordan		Oakland Co Airport	
		Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg
2013	1	0.03633	0.02	0.02042	0.02	0.00295	0.00	0.00428	0.00	0.00697	0.01	0.01295	0.01	0.011696	0.01	0.02190	0.01	---	---	---	---
2013	2	0.02573	0.03	0.00391	0.01	0.00202	0.00	0.00428	0.00	0.00825	0.01	0.01127	0.01	0.008389	0.01	0.00356	0.01	---	---	---	---
2013	3	0.02555	0.03	0.01226	0.01	0.00314	0.00	0.00313	0.00	0.00623	0.01	0.006678	0.01	0.012277	0.01	0.00171	0.01	---	---	---	---
2013	4	0.03024	0.03	0.01691	0.01	0.00563	0.00	0.00399	0.00	0.00842	0.01	0.00742	0.01	0.022723	0.01	0.00622	0.00	---	---	---	---
2013	5	0.02864	0.03	0.04970	0.03	0.00416	0.00	0.00472	0.00	0.01937	0.01	0.00950	0.01	0.02649	0.02	0.00283	0.00	---	---	---	---
2013	6	0.03215	0.03	0.03607	0.03	0.00643	0.01	0.00443	0.00	0.01204	0.01	0.01067	0.01	0.033816	0.03	0.00609	0.01	---	---	---	---
2013	7	0.05216	0.04	0.02732	0.04	0.00518	0.01	0.00473	0.00	0.01139	0.01	0.02123	0.01	0.020696	0.03	0.00473	0.00	---	---	---	---
2013	8	0.04604	0.04	0.09199	0.05	0.00926	0.01	0.00700	0.01	0.01381	0.01	0.01443	0.02	0.013141	0.02	0.01573	0.01	---	---	---	---
2013	9	0.01738	0.04	0.03021	0.05	0.00473	0.01	0.00511	0.01	0.00983	0.01	0.00954	0.02	0.041985	0.03	0.00545	0.01	---	---	---	---
2013	10	0.03529	0.03	0.06068	0.06	0.00286	0.01	0.00348	0.01	0.01209	0.01	0.00951	0.01	0.036874	0.03	0.01471	0.01	---	---	---	---
2013	11	0.07916	0.04	0.02703	0.04	0.00476	0.00	0.00284	0.00	0.00560	0.01	0.00329	0.01	0.028276	0.04	0.00218	0.01	---	---	---	---
2013	12	0.04421	0.05	0.02248	0.04	0.00279	0.00	0.00355	0.00	0.00765	0.01	0.00652	0.01	0.010708	0.03	0.00168	0.01	---	---	---	---
2014	1	0.02830	0.05	0.02040	0.02	0.00189	0.00	0.00337	0.00	0.00548	0.01	0.00304	0.00	0.028166	0.02	0.00137	0.00	---	---	---	---
2014	2	0.02018	0.03	0.01576	0.02	0.00328	0.00	0.00406	0.00	0.00584	0.01	0.00538	0.00	0.006357	0.02	0.00212	0.00	---	---	---	---
2014	3	0.01555	0.02	0.01221	0.02	0.00315	0.00	0.00345	0.00	0.00587	0.01	0.007109	0.01	0.004274	0.01	0.00210	0.00	---	---	---	---
2014	4	0.07128	0.04	0.01518	0.01	0.00555	0.00	0.00521	0.00	0.00820	0.01	0.00508	0.01	0.012928	0.01	0.00252	0.00	---	---	---	---
2014	5	0.03763	0.04	0.02225	0.02	0.00362	0.00	0.00470	0.00	0.00881	0.01	0.00720	0.01	0.004337	0.01	0.00295	0.00	---	---	---	---
2014	6	0.01169	0.04	0.01225	0.02	0.00341	0.00	0.00585	0.01	0.01553	0.01	0.01193	0.01	0.026101	0.01	0.00575	0.00	---	---	---	---
2014	7	0.02762	0.03	0.01239	0.02	0.00592	0.00	0.00728	0.01	0.01663	0.01	0.02351	0.01	0.018479	0.02	0.00474	0.00	---	---	---	---
2014	8	0.03794	0.03	0.01986	0.01	0.00673	0.01	0.01200	0.01	0.01189	0.01	0.00946	0.01	0.006159	0.02	0.00317	0.00	---	---	---	---
2014	9	0.02067	0.03	0.07476	0.04	0.00538	0.01	0.00660	0.01	0.01936	0.02	0.01671	0.02	0.030817	0.02	0.00549	0.00	---	---	---	---
2014	10	0.03879	0.03	0.01853	0.04	0.00392	0.01	0.00456	0.01	0.01829	0.02	0.02678	0.02	0.042354	0.03	0.00341	0.00	---	---	---	---
2014	11	0.04462	0.03	0.01812	0.04	0.00311	0.00	0.00598	0.01	0.01020	0.02	0.01368	0.02	0.012601	0.03	0.00193	0.00	---	---	---	---
2014	12	0.03224	0.04	0.01084	0.02	0.00365	0.00	0.00303	0.00	0.00936	0.01	0.00758	0.02	0.002021	0.02	0.00322	0.00	---	---	---	---
2015	1	0.03802	0.04	0.00373	0.01	0.00184	0.00	0.00303	0.00	0.00882	0.01	0.01022	0.01	0.007064	0.01	---	---	---	---	---	---
2015	2	0.03447	0.03	0.01555	0.01	0.00403	0.00	0.00435	0.00	0.00803	0.01	0.00877	0.01	0.04121	0.02	---	---	---	---	---	---
2015	3	0.01444	0.03	0.01337	0.01	0.00289	0.00	0.00350	0.00	0.01294	0.01	0.013370	0.01	0.019385	0.02	---	---	---	---	---	---
2015	4	0.02965	0.03	0.01708	0.02	0.00450	0.00	0.00485	0.00	0.00953	0.01	0.00688	0.01	0.020941	0.03	---	---	---	---	---	---
2015	5	0.03206	0.03	0.07020	0.03	0.00388	0.00	0.00362	0.00	0.01200	0.01	0.01223	0.01	0.023829	0.02	---	---	---	---	---	---
2015	6	0.00861	0.02	0.00902	0.03	0.00390	0.00	0.00368	0.00	0.00931	0.01	0.00704	0.01	0.024048	0.02	---	---	---	---	---	---
2015	7	0.02864	0.02	0.02369	0.03	0.01016	0.01	0.00641	0.00	0.02043	0.01	0.02403	0.01	0.038278	0.03	---	---	---	---	---	---
2015	8	0.02802	0.02	0.04447	0.03	0.00575	0.01	0.00467	0.00	0.02635	0.02	0.01392	0.01	0.028981	0.03	---	---	---	---	---	---
2015	9	0.00443	0.02	0.00808	0.03	0.00571	0.01	0.00423	0.01	0.01046	0.02	0.00995	0.02	0.055844	0.04	---	---	---	---	---	---
2015	10	0.03247	0.02	0.03519	0.03	0.00287	0.00	0.00359	0.00	0.02076	0.02	0.01648	0.01	0.018625	0.03	---	---	---	---	---	---
2015	11	0.01203	0.02	0.01231	0.02	0.00371	0.00	0.00422	0.00	0.01097	0.01	0.00926	0.01	0.039995	0.04	---	---	---	---	---	---
2015	12	0.00765	0.02	0.00925	0.02	0.00313	0.00	0.00414	0.00	0.00821	0.01	0.00976	0.01	0.080759	0.05	---	---	---	---	---	---
2016	1	0.00895	0.01	0.01000	0.01	0.00282	0.00	0.00303	0.00	0.00769	0.01	0.00968	0.01	0.05027	0.06	---	---	---	---	---	---
2016	2	0.00527	0.01	0.02738	0.02	0.00310	0.00	0.00435	0.00	0.00898	0.01	--	--	0.07134	0.07	---	---	---	---	---	---
2016	3	0.00715	0.01	0.02452	0.01	0.00345	0.00	0.00433	0.00	0.00644	0.01	0.005207	0.01	0.020502	0.05	---	---	---	---	---	---
2016	4	0.00823	0.01	0.00442	0.01	0.00442	0.00	0.00664	0.01	0.01211	0.01	0.02083	0.01	0.006394	0.01	---	---	---	---	---	---
2016	5	0.00852	0.01	0.00443	0.01	0.00407	0.00	0.00551	0.01	0.01049	0.01	0.00639	0.01	0.023519	0.02	---	---	---	---	---	---
2016	6	0.00483	0.01	0.00303	0.00	0.00311	0.00	0.00611	0.01	0.01478	0.01	0.00639	0.01	0.006122	0.01	---	---	---	---	---	---
2016	7	0.00712	0.01	0.00484	0.00	0.00411	0.00	0.00464	0.01	0.01225	0.01	0.01285	0.01	0.036597	0.02	---	---	---	---	---	---

Year	Month	Belding (Merrick St)		Belding (Reed St)		Grand Rapids		Allen Park		Dearborn POC 1		Dearborn POC 2*		Port Huron Rural St		Vassar		E Jordan		Oakland Co Airport	
		Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg	Mo Avg	3-Mo Avg
2016	8	0.00974	0.01	0.03780	0.02	0.00659	0.00	0.00446	0.01	0.00768	0.01	0.00525	0.01	0.038363	0.03	---	---	---	---	---	---
2016	9	0.00561	0.01	0.00466	0.02	0.00362	0.00	0.00494	0.00	0.01589	0.01	0.01605	0.01	0.01646	0.03	---	---	---	---	---	---