

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Maryland

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- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
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- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.
[For a discussion of limitations please see http://www.epa.gov/ttn/atw/nata/natsalim2.html](http://www.epa.gov/ttn/atw/nata/natsalim2.html)
- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Maryland												
State	County	FIPS	Urban or Rural	1,1,2,2-TCA	1,3-Butadiene	1,3-Dichloropropene	Acetaldehyde	Acrolein	Acrylonitrile	Arsenic	Benzene	Beryllium	Cadmium	Carbon Tetrachloride	Chloroform	Chromium
National	All	99999	-	2.33E-04	4.79E-02	5.20E-02	4.82E-01	7.21E-02	5.62E-04	4.83E-05	1.19E+00	8.35E-06	3.90E-05	6.41E-01	6.90E-02	5.15E-04
National	All Urban Counties	99998	U	3.50E-04	5.93E-02	6.60E-02	6.45E-01	8.89E-02	8.39E-04	6.25E-05	1.41E+00	1.08E-05	5.90E-05	6.41E-01	6.96E-02	8.25E-04
National	All Rural Counties	99998	R	3.62E-05	1.30E-02	7.09E-03	1.15E-01	3.03E-02	7.64E-05	1.01E-05	6.01E-01	1.09E-06	4.79E-06	6.40E-01	6.80E-02	5.05E-05
Maryland	State Total	24000	-	3.35E-04	6.49E-02	8.78E-02	8.17E-01	1.21E-01	7.11E-04	6.40E-05	1.65E+00	1.20E-05	6.41E-05	6.41E-01	7.06E-02	2.73E-04
Maryland	State Urban Counties	24000	U	3.54E-04	6.98E-02	9.52E-02	8.52E-01	1.26E-01	7.59E-04	6.85E-05	1.72E+00	1.30E-05	6.92E-05	6.41E-01	7.08E-02	2.90E-04
Maryland	State Rural Counties	24000	R	5.10E-05	1.80E-02	1.53E-02	1.58E-01	3.71E-02	1.12E-04	1.43E-05	6.66E-01	2.16E-06	6.01E-06	6.40E-01	6.82E-02	4.97E-05
Maryland	Allegany County	24001	R	2.12E-04	2.99E-02	2.29E-02	1.86E-01	4.74E-02	3.83E-04	1.33E-05	7.43E-01	4.08E-06	1.06E-05	6.41E-01	6.94E-02	3.65E-05
Maryland	Anne Arundel County	24003	U	7.27E-04	6.73E-02	7.77E-02	8.63E-01	1.32E-01	1.40E-03	6.53E-05	1.64E+00	9.75E-06	8.77E-05	6.39E-01	7.12E-02	3.43E-04
Maryland	Baltimore County	24005	U	2.01E-04	7.88E-02	1.11E-01	9.84E-01	1.42E-01	4.44E-04	7.23E-05	1.96E+00	1.42E-05	9.01E-05	6.41E-01	7.03E-02	3.75E-04
Maryland	Calvert County	24009	U	2.05E-04	1.78E-02	1.92E-02	2.66E-01	4.26E-02	4.00E-04	1.53E-05	7.66E-01	2.50E-06	1.35E-05	6.39E-01	6.89E-02	6.29E-05
Maryland	Caroline County	24011	R	2.51E-05	9.29E-03	6.55E-03	1.28E-01	2.20E-02	1.78E-04	1.57E-05	5.80E-01	9.08E-07	2.60E-06	6.42E-01	6.80E-02	3.79E-05
Maryland	Carroll County	24013	U	1.91E-04	2.89E-02	4.13E-02	4.74E-01	7.24E-02	3.82E-04	2.88E-05	1.08E+00	4.85E-06	2.12E-05	6.39E-01	6.90E-02	1.46E-04
Maryland	Cecil County	24015	U	1.08E-04	2.27E-02	2.59E-02	4.70E-01	5.96E-02	3.02E-04	5.36E-05	9.37E-01	5.04E-06	7.41E-05	6.38E-01	6.92E-02	3.47E-04
Maryland																

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				Estimated Annual Median Exposure Concentrations (ug/m3) for Maryland												
State	County	FIPS	Urban or Rural	Coke Oven Emissions	Diesel PM	Ethylene Dibromide	Ethylene Dichloride	Ethylene Oxide	Formaldehyde	Hexachlorobenzene	Hydrazine	Lead	Manganese	Mercury	Methylene Chloride	Nickel
National	All	99999	-	0.00E+00	1.07E+00	6.08E-03	5.27E-02	1.25E-03	6.77E-01	7.51E-05	3.71E-08	1.54E-03	1.06E-03	1.33E-03	2.72E-01	7.43E-04
National	All Urban Counties	99998	U	0.00E+00	1.30E+00	6.08E-03	5.28E-02	1.80E-03	8.22E-01	7.51E-05	6.61E-08	2.50E-03	1.32E-03	1.40E-03	3.22E-01	1.10E-03
National	All Rural Counties	99998	R	0.00E+00	4.63E-01	6.08E-03	5.26E-02	1.05E-04	3.45E-01	7.51E-05	9.29E-10	1.45E-04	2.38E-04	1.21E-03	1.40E-01	8.37E-05
Maryland	State Total	24000	-	0.00E+00	1.79E+00	6.08E-03	5.26E-02	1.91E-03	1.17E+00	7.50E-05	2.66E-08	2.94E-03	1.31E-03	1.64E-03	3.26E-01	7.67E-04
Maryland	State Urban Counties	24000	U	0.00E+00	1.86E+00	6.08E-03	5.26E-02	2.10E-03	1.21E+00	7.50E-05	3.52E-08	3.21E-03	1.43E-03	1.67E-03	3.39E-01	8.61E-04
Maryland	State Rural Counties	24000	R	0.00E+00	8.61E-01	6.08E-03	5.25E-02	1.98E-04	4.04E-01	7.50E-05	1.26E-09	2.25E-04	1.68E-04	1.22E-03	1.55E-01	1.20E-04
Maryland	Allegany County	24001	R	0.00E+00	7.82E-01	6.08E-03	5.26E-02	6.42E-04	4.77E-01	7.50E-05	5.32E-11	4.91E-04	2.19E-04	1.25E-03	2.81E-01	1.46E-04
Maryland	Anne Arundel County	24003	U	0.00E+00	1.89E+00	6.08E-03	5.28E-02	1.20E-03	1.21E+00	7.50E-05	2.48E-08	5.45E-03	2.20E-03	1.54E-03	3.43E-01	1.07E-03
Maryland	Baltimore County	24005	U	0.00E+00	2.04E+00	6.08E-03	5.26E-02	3.06E-03	1.36E+00	7.50E-05	7.69E-08	2.72E-03	2.21E-03	1.63E-03	3.48E-01	1.36E-03
Maryland	Calvert County	24009	U	0.00E+00	1.21E+00	6.07E-03	5.24E-02	2.82E-04	5.09E-01	7.50E-05	1.20E-09	3.15E-04	2.08E-04	1.25E-03	1.64E-01	1.36E-04
Maryland	Caroline County	24011	R	0.00E+00	9.97E-01	6.08E-03	5.26E-02	6.03E-05	3.33E-01	7.51E-05	2.08E-09	5.76E-05	7.06E-05	1.20E-03	1.34E-01	7.31E-05
Maryland	Carroll County	24013	U	0.00E+00	1.50E+00	6.08E-03	5.24E-02	6.07E-04	7.88E-01	7.51E-05	5.60E-09	4.95E-04	4.88E-04	1.51E-03	2.20E-01	2.52E-04
Maryland	Cecil County	24015	U	0.00E+00	1.60E+00	6.08E-03	5.26E-02	1.12E-03	6.95E-01	7.50E-05	1.46E-07	6.96E-04	5.41E-04	1.48E-03	2.07E-01	1.08E-03
Maryland	Charles County	24017	U	0.00E+00	1.25E+00	6.08E-03	5.26E-02	6.71E-04	7.66E-01	7.50E-0						

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State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
National	All	99999	-	3.00E-04	1.84E-01	4.27E-02	3.11E-05	1.85E-07	9.86E-02	7.61E-04					
National	All Urban Counties	99998	U	3.00E-04	2.13E-01	5.26E-02	4.73E-05	3.22E-07	1.12E-01	1.16E-03					
National	All Rural Counties	99998	R	3.00E-04	1.14E-01	9.18E-03	4.85E-06	1.07E-08	7.06E-02	1.05E-04					
Maryland	State Total	24000	-	3.00E-04	2.24E-01	5.60E-02	4.36E-05	1.62E-07	1.07E-01	8.92E-04					
Maryland	State Urban Counties	24000	U	3.00E-04	2.33E-01	5.92E-02	4.78E-05	2.01E-07	1.10E-01	9.87E-04					
Maryland	State Rural Counties	24000	R	3.00E-04	1.24E-01	1.22E-02	6.62E-06	2.24E-08	7.18E-02	1.33E-04					
Maryland	Allegany County	24001	R	3.00E-04	1.40E-01	2.10E-02	2.37E-05	7.62E-10	7.42E-02	5.08E-04					
Maryland	Anne Arundel County	24003	U	3.00E-04	1.93E-01	5.08E-02	8.72E-05	2.08E-07	9.97E-02	1.82E-03					
Maryland	Baltimore County	24005	U	3.00E-04	2.27E-01	6.59E-02	3.00E-05	4.59E-07	1.08E-01	5.42E-04					
Maryland	Calvert County	24009	U	3.00E-04	1.23E-01	1.40E-02	2.39E-05	1.47E-08	7.52E-02	4.87E-04					
Maryland	Caroline County	24011	R	3.00E-04	1.11E-01	6.07E-03	3.38E-06	3.37E-08	7.00E-02	8.24E-05					
Maryland	Carroll County	24013	U	3.00E-04	1.45E-01	2.71E-02	2.34E-05	5.06E-08	7.93E-02	4.65E-04					
Maryland	Cecil County	24015	U	3.00E-04	1.37E-01	1.91E-02	1.59E-05	2.82E-07	7.55E-02	1.02E-02					
Maryland	Charles County	24017	U	3.00E-04	1.70E-01	2.98E-02	8.69E-05	3.36E-08	8.86E-02	1.79E-03					
Maryland	Dorchester County	24019	R	3.00E-04	1.11E-01	6.08E-03	6.62E-06	2.35E-08	7.06E-02	1.51E-04					
Maryland	Frederick County	24021	U	3.00E-04	1.46E-01	2.43E-02	1.61E-05	4.02E-08	8.01E-02	3.01E-04					
Maryland	Garrett County	24023	R	3.00E-04	1.09E-01	5.42E-03	2.30E-06	1.86E-08	6.87E-02	1.19E-04					
Maryland	Harford County	24025	U	3.00E-04	1.47E-01	3.50E-02	1.86E-05	3.76E-07	8.14E-02	3.53E-04					
Maryland	Howard County	24027	U	3.00E-04	2.15E-01	5.42E-02	3.10E-05	2.19E-07	1.09E-01	5.74E-04					
Maryland	Kent County	24029	R	3.00E-04	1.39E-01	1.65E-02	2.35E-05	2.83E-07	7.89E-02	6.21E-04					
Maryland	Montgomery County	24031	U	3.00E-04	2.47E-01	5.58E-02	4.21E-05	5.72E-08	1.12E-01	8.12E-04					
Maryland	Prince George	24033	U	3.00E-04	2.40E-01	5.67E-02	7.11E-05	1.23E-07	1.09E-01	1.40E-03					
Maryland	Queen Anne	24035	U	3.00E-04	1.22E-01	9.91E-03	1.45E-05	5.93E-08	7.36E-02	4.00E-04					
Maryland	St. Mary	24037	R	3.00E-04	1.24E-01	1.31E-02	8.02E-06	4.89E-09	7.17E-02	1.51E-04					
Maryland	Somerset County	24039	R	2.99E-04	1.13E-01	4.09E-03	3.36E-06	4.57E-10	6.84E-02	6.83E-05					
Maryland	Talbot County	24041	R	3.00E-04	1.15E-01	6.55E-03	1.10E-05	9.70E-08	7.26E-02	3.99E-04					
Maryland	Washington County	24043	U	3.00E-04	1.39E-01	3.00E-02	1.43E-05	8.02E-08	8.03E-02	2.58E-04					
Maryland	Wicomico County	24045	R	3.00E-04	1.54E-01	2.31E-02	6.59E-06	5.77E-08	7.49E-02	1.17E-04					
Maryland	Worcester County	24047	R	3.00E-04	1.28E-01	1.16E-02	3.98E-06	4.61E-08	7.23E-02	6.73E-05					
Maryland	Baltimore city	24510	U	3.00E-04	3.76E-01	1.25E-01	6.97E-05	1.11E-06	1.43E-01	1.40E-03					