

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Ohio

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- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- 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 Ohio												
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
Ohio	State Total	39000	-	2.96E-04	6.01E-02	5.13E-02	5.68E-01	7.73E-02	8.35E-04	5.56E-05	1.42E+00	9.31E-06	1.10E-04	6.41E-01	6.94E-02	1.31E-03
Ohio	State Urban Counties	39000	U	3.68E-04	7.12E-02	5.91E-02	6.60E-01	9.00E-02	9.11E-04	6.28E-05	1.59E+00	1.04E-05	1.39E-04	6.41E-01	6.97E-02	1.52E-03
Ohio	State Rural Counties															

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				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio												
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
Ohio	State Total	39000	-	0.00E+00	1.36E+00	6.08E-03	5.27E-02	1.42E-03	7.47E-01	7.51E-05	6.31E-08	1.75E-03	2.35E-03	1.41E-03	2.76E-01	1.10E-0

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				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio											
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					
Ohio	State Total	39000	-	3.00E-04	1.86E-01	4.98E-02	3.97E-05	3.88E-07	1.07E-01	9.68E-04					
Ohio	State Urban Counties	39000	U	3.00E-04	2.07E-01	5.67E-02	4.74E-05	4.47E-07	1.15E-01	1.10E-03					
Ohio	State Rural Counties	39000	R	3.00E-04	1.22E-01	1.55E-02	9.37E-06	6.91E-08	7.49E-02	1.86E-04					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio												
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
Ohio	Greene County	39057	U	1.09E-04	4.25E-02	4.61E-02	4.72E-01	5.94E-02	2.28E-04	2.44E-05	1.21E+00	5.46E-06	1.58E-05	6.41E-01	6.99E-02	9.44E-04
Ohio	Guernsey County	39059	R	4.61E-05	1.86E-02											

				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio												
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
Ohio	Greene County	39057	U	1.61E-03	1.20E+00	6.08E-03	5.24E-02	6.73E-04	6.17E-01	7.51E-05	1.70E-08	6.13E-04				

				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Ohio	Greene County	39057	U	3.00E-04	1.50E-01	4.07E-02	1.50E-05	1.11E-07	9.10E-02	3.81E-04					
Ohio	Guernsey County	39059	R	3.01E-04	1.25E-01	1.50E-02	6.95E-06	1.06E-07	7.02E-02	1.16E-04					
Ohio	Hamilton County	39061	U	3.00E-04	3.23E-01	8.65E-02	2.42E-04	1.47E-06	1.71E-01	6.26E-03					
Ohio	Hancock County	39063	U	3.00E-04	1.77E-01	2.86E-02	1.35E-05	2.40E-08	9.83E-02	3.09E-04					
Ohio	Hardin County	39065	R	3.00E-04	1.16E-01	8.65E-03	1.18E-05	6.33E-08	8.00E-02	3.13E-04					
Ohio	Harrison County	39067	R	3.00E-04	1.10E-01	9.72E-03	8.78E-06	3.18E-05	7.18E-02	1.86E-04					
Ohio	Henry County	39069	R	3.00E-04	1.16E-01	1.93E-02	1.41E-05	1.91E-08	8.21E-02	2.89E-04					
Ohio															

				Estimated Annual Median Exposure Concentrations (ug/m3) for Ohio												
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
Ohio	Union County	39159	R	8.09E-05	1.33E-02	1.77E-02	3.58E-01	4.13E-02	4.63E-04	1.27E-05	8.08E-01	2.74E-06	2.88E-05	6.41E-01	6.83E-02	7.06E-04
Ohio	Van Wert County	39161	R	3.91E-05	1.64E-02	2.68E-02	1.47E-01	2.10E-02	2.32E-03	9.45E-05	6.67E-01	7.75E-06	4.81E-05	6.41E-01	6.81E-02	2.13E-03
Ohio	Vinton County	39163	R	8.45E-05	8.35E-03	4.88E-03	1.04E-01	2.86E-02	1.57E-04	7.34E-06	5.68E-01	8.57E-07	3.77E-06	6.37E-01	6.81E-02	3.24E-05
Ohio	Warren County	39165	U	6.51E-04	4.35E-02	4.82E-02	6.15E-01	7.58E-02	5.54E-03	5.51E-05	1.28E+00	6.81E-06	4.78E-05	6.40E-01	6.94E-02	1.05E-03
Ohio	Washington County	39167	R	7.49E-05	2.61E-02	2.31E-02	2.57E-01	6.64E-02	5.64E-03	5.01E-05	8.32E-01	4.50E-06	5.82E-05	6.40E-01	6.82E-02	2.26E-03
Ohio	Wayne County	39169	R	1.25E-04	1.74E-02	1.91E-02	2.66E-01	4.43E-02	2.92E-04	2.09E-05	8.60E-01	2.76E-06	2.18E-05	6.40E-01	6.84E-02	3.30E-04
Ohio	Williams County	39171	R	5.77E-05	6.86E-03	5.69E-03	1.07E-01	1.52E-02	1.11E-04	1.37E-04	5.68E-01	1.14E-06	1.62E-05	6.42E-01	6.81E-02	2.74E-03
Ohio	Wood County	39173	U	3.87E-04	2.07E-02	2.43E-02	2.69E-01	3.44E-02	6.90E-04	4.09E-05	8.76E-01	5.22E-05	3.04E-05	6.39E-01	6.85E-02	5.08E-04
Ohio	Wyandot County	39175	R	1.04E-04	5.16E-03	6.27E-03	7.09E-02	1.06E-02	1.90E-04	5.40E-06	5.12E-01	7.22E-07	4.05			

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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
Ohio	Union County	39159	R	0.00E+00	1.13E+00	6.08E-03	5.26E-02	5.01E-04	5.21E-01	7.52E-05	4.38E-08	8.08E-04	6.73E-04	1.27E-03	1.64E-01	3.06E-04
Ohio	Van Wert County	39161	R	0.00E+00	1.15E+00	6.08E-03	5.24E-02	3.33E-04	3.40E-01	7.53E-05	2.06E-08	6.29E-04	1.86E-03	1.25E-03	6.38E-01	1.49E-03
Ohio	Vinton County	39163	R	0.00E+00	6.86E-01	6.08E-03	5.27E-02	4.58E-05	3.22E-01	7.51E-05	7.83E-09	6.24E-05	1.73E-04	1.20E-03	1.41E-01	3.47E-05
Ohio	Warren County	39165	U	2.61E-03	1.39E+00	6.08E-03	5.28E-02	5.72E-04	7.98E-01	7.50E-05	3.86E-08	1.16E-03	2.34E-03	1.40E-03	2.57E-01	7.72E-04
Ohio	Washington County	39167	R	0.00E+00	1.14E+00	6.10E-03	5.25E-02	5.17E-04	5.06E-01	7.50E-05	4.05E-07	2.69E-03	5.40E-02	1.26E-03	1.80E-01	1.92E-04
Ohio	Wayne County	39169	R	0.00E+00	1.02E+00	6.08E-03	5.26E-02	3.46E-04	4.46E-01	7.50E-05	2.38E-08	9.10E-04	6.13E-04	1.24E-03	1.65E-01	4.60E-04
Ohio	Williams County	39171	R	0.00E+00	8.63E-01	6.08E-03	5.25E-02	1.51E-04	3.00E-01	7.52E-05	1.34E-09	1.07E-03	1.69E-03	1.21E-03	1.89E-01	3.09E-03
Ohio	Wood County	39173	U	0.00E+00	1.12E+00	6.08E-03	5.27E-02	2.91E-04	4.34E-01	7.51E-05	1.76E-08	9.21E-04	1.13E-03	1.27E-03	1.83E-01	5.60E-04
Ohio	Wyandot County	39175	R	0.00E+00	9.16E-01	6.08E-03	5.25E-02	8.06E-05	2.53E-01	7.53E-05	2.21E-09	2.04E-03	3.46E-04	1.20E-03	1.34E-01	2.77E-04

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Ohio	Vinton County	39163	R	3.00E-04	1.10E-01	7.02E-03	9.97E-06	9.87E-08	6.89E-02	2.13E-04					
Ohio	Warren County	39165	U	3.00E-04	1.87E-01	3.93E-02	7.57E-05	3.46E-07	1.20E-01	1.71E-03					
Ohio	Washington County	39167	R	3.00E-04	1.31E-01	2.12E-02	2.42E-05	1.46E-06	7.59E-02	5.84E-03					
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Ohio	Williams County	39171	R	3.00E-04	1.20E-01	2.01E-02	6.78E-06	1.30E-08	7.11E-02	1.36E-04					
Ohio	Wood County	39173	U	3.00E-04	1.79E-01	2.72E-02	4.47E-05	7.26E-08	8.02E-02	9.89E-04					
Ohio	Wyandot County	39175	R	3.00E-04	1.20E-01	5.80E-03	1.19E-05	2.61E-08	7.18E-02	2.82E-04					