

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Vermont

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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.
- 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 Vermont												
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
Vermont	State Total	50000	-	4.74E-05	1.59E-02	7.09E-03	1.16E-01	3.88E-02	8.95E-05	5.44E-06	6.52E-01	8.58E-07	3.96E-06	6.41E-01	6.81E-02	3.54E-05
Vermont	State Urban Counties	50000	U	4.74E-05	1.59E-02	7.09E-03	1.16E-01	3.88E-02	8.95E-05	5.44E-06	6.52E-01	8.58E-07	3.96E-06	6.41E-01	6.81E-02	3.54E-05
Vermont	State Rural Counties	50001	R	4.57E-05	1.40E-02	6.68E-03	1.08E-01	3.29E-02	8.86E-05	6.52E-06	6.53E-01	6.56E-07	3.05E-06	6.40E-01	6.83E-02	1.98E-05
Vermont	Bennington County	50003	R	1.76E-04	1.37E-02	6.46E-03	1.09E-01	3.50E-02	3.12E-04	4.70E-06	5.74E-01	6.45E-07	4.43E-06	6.40E-01	6.81E-02	5.68E-05
Vermont	Caledonia County	50005	R	3.76E-05	1.19E-02	5.38E-03	8.04E-02	3.29E-02	7.11E-05	6.83E-06	5.85E-01	5.77E-07	3.04E-06	6.43E-01	6.77E-02	3.86E-05
Vermont	Chittenden County	50007	R	9.62E-05	7.04E-02	5.11E-02	4.68E-01	8.58E-02	1.89E-04	3.03E-05	1.36E+00	6.77E-06	1.66E-05	6.43E-01	6.84E-02	6.30E-05
Vermont	Essex County	50009	R	4.12E-05	1.12E-02	2.26E-03	4.78E-02	3.23E-02	7.37E-05	4.64E-06	5.16E-01	3.38E-07	1.66E-06	6.42E-01	6.81E-02	1.05E-05
Vermont	Franklin County	50011	R	2.56E-05	1.43E-02	1.17E-02	1.95E-01	3.71E-02	5.44E-05	5.35E-06	6.81E-01	9.81E-07	3.63E-06	6.39E-01	6.81E-02	1.99E-05
Vermont	Grand Isle County	50013	R	5.00E-05	1.21E-02	7.20E-03	1.25E-01	2.47E-02	9.24E-05	3.02E-06	6.16E-01	7.01E-07	2.08E-06	6.35E-01	6.82E-02	1.33E-05
Vermont	Lamoille County	50015	R	3.01E-05	1.15E-02	5.73E-03	1.14E-01	3.61E-02	6.00E-05	5.34E-06	5.84E-01	6.64E-07	2.90E-06	6.35E-01	6.79E-02	1.86E-05
Vermont	Orange County	50017	R	6.26E-05	3.10E-02	5.93E-03	1.10E-01	4.69E-02	1.14E-04	6.24E-06	9.03E-01	6.54E-07	3.16E-06	6.39E-01	6.79E-02	2.42E-05
Vermont	Orleans County	50019	R	1.55E-05	1.00E-02	3.45E-03	6.36E-02	2.46E-02	3.23E-05	3.10E-06	5.14E-01	4.25E-07	2.06E-06	6.42E-01	6.78E-02	1.28E-05
Vermont	Rutland County	50021	R	6.68E-05	1.22E-02	6.98E-03	1.06E-01	3.31E-02	1.28E-04	6.92E-06	5.95E-01	7.97E-07	3.16E-06	6.43E-01	6.82E-02	5.38E-05
Vermont	Washington County	50023	R	2.74E-05	1.74E-02	8.13E-03	1.40E-01	4.41E-02	5.81E-05	5.37E-06	7.13E-01	1.08E-06	3.96E-06	6.38E-01	6.81E-02	2.02E-05
Vermont	Windham County	50025	R	5.26E-05	9.74E-03	5.59E-03	1.04E-01	3.21E-02	1.02E-04	4.26E-06	5.53E-01	8.04E-07	3.80E-06	6.41E-01	6.80E-02	4.66E-05
Vermont	Windsor County	50027	R	2.69E-05	1.78E-02	6.45E-03	1.08E-01	4.02E-02	5.37E-05	4.03E-06	7.07E-01	7.11E-07	4.26E-06	6.39E-01	6.80E-02	1.01E-04

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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
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
Vermont	State Total	50000	-	0.00E+00	4.26E-01	6.08E-03	5.25E-02	9.87E-05	3.57E-01	7.50E-05	1.09E-09	1.50E-04	5.03E-04	1.21E-03	1.41E-01	6.05E-05
Vermont	State Urban Counties	50000	U	0.00E+00	4.26E-01	6.08E-03	5.25E-02	9.87E-05	3.57E-01	7.50E-05	1.09E-09	1.50E-04	5.03E-04	1.21E-03	1.41E-01	6.05E-05
Vermont	State Rural Counties	50001	R	0.00E+00	3.38E-01	6.08E-03	5.25E-02	9.52E-05	3.32E-01	7.51E-05	2.32E-09	1.02E-04	7.02E-04	1.20E-03	1.33E-01	3.67E-05
Vermont	Bennington County	50003	R	0.00E+00	5.96E-01	6.09E-03	5.26E-02	1.48E-04	3.52E-01	7.52E-05	2.03E-09	1.46E-04	2.50E-04	1.22E-03	1.41E-01	6.47E-05
Vermont	Caledonia County	50005	R	0.00E+00	2.78E-01	6.08E-03	5.23E-02	9.24E-05	3.24E-01	7.49E-05	4.66E-11	8.23E-05	7.04E-04	1.20E-03	1.31E-01	4.00E-05
Vermont	Chittenden County	50007	R	0.00E+00	6.78E-01	6.08E-03	5.25E-02	3.91E-05	6.40E-01	7.50E-05	1.91E-08	3.14E-03	1.65E-03	1.27E-03	2.29E-01	4.26E-04
Vermont	Essex County	50009	R	0.00E+00	1.89E-01	6.08E-03	5.24E-02	4.06E-05	3.06E-01	7.52E-05	7.94E-11	6.10E-05	2.40E-04	1.19E-03	1.25E-01	1.76E-05
Vermont	Franklin County	50011	R	0.00E+00	2.72E-01	6.08E-03	5.27E-02	4.03E-05	3.95E-01	7.50E-05	2.30E-10	6.14E-04	2.74E-04	1.21E-03	1.44E-01	4.91E-05
Vermont	Grand Isle County	50013	R	0.00E+00	2.16E-01	6.08E-03	5.32E-02	8.52E-06	3.26E-01	7.52E-05	1.72E-09	3.77E-04	1.76E-04	1.20E-03	1.53E-01	4.28E-05
Vermont	Lamoille County	50015	R	0.00E+00	2.59E-01	6.08E-03	5.26E-02	6.55E-05	3.44E-01	7.50E-05	6.39E-11	1.22E-04	7.24E-04	1.20E-03	1.32E-01	2.85E-05
Vermont	Orange County	50017	R	0.00E+00	3.45E-01	6.07E-03	5.26E-02	1.12E-04	3.57E-01	7.50E-05	3.98E-11	1.05E-04	3.12E-04	1.20E-03	1.31E-01	3.15E-05
Vermont	Orleans County	50019	R	0.00E+00	2.02E-01	6.07E-03	5.25E-02	5.58E-05	2.85E-01	7.50E-05	2.69E-09	3.81E-05	2.60E-04	1.20E-03	1.28E-01	2.06E-05
Vermont	Rutland County	50021	R	0.00E+00	4.56E-01	6.08E-03	5.26E-02	1.71E-04	3.34E-01	7.51E-05	3.21E-09	1.89E-04	8.19E-04	1.21E-03	1.41E-01	4.94E-05
Vermont	Washington County	50023	R	0.00E+00	3.55E-01	6.07E-03	5.26E-02	1.66E-04	3.79E-01	7.50E-05	1.44E-09	1.60E-04	5.88E-04	1.21E-03	1.45E-01	7.45E-05
Vermont	Windham County	50025	R	0.00E+00	6.26E-01	6.08E-03	5.25E-02	3.21E-04	3.31E-01	7.50E-05	5.20E-09	8.62E-05	2.27E-04	1.22E-03	1.49E-01	6.32E-05
Vermont	Windsor County	50027	R	0.00E+00	4.50E-01	6.08E-03	5.27E-02	1.72E-04	3.50E-01	7.51E-05	2.84E-10	1.46E-04	2.75E-04	1.23E-03	1.34E-01	7.33E-05

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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					
Vermont	State Total	50000	-	3.00E-04	1.14E-01	7.97E-03	5.45E-06	9.91E-09	7.08E-02	1.11E-04					
Vermont	State Urban Counties	50000	U	3.00E-04	1.14E-01	7.97E-03	5.45E-06	9.91E-09	7.08E-02	1.11E-04					
Vermont	State Rural Counties	50001	R	3.00E-04	1.11E-01	6.58E-03	5.72E-06	1.66E-08	6.93E-02	1.09E-04					
Vermont	Bennington County	50003	R	3.00E-04	1.14E-01	7.71E-03	1.96E-05	1.33E-08	7.46E-02	4.18E-04					
Vermont	Caledonia County	50005	R	3.00E-04	1.10E-01	6.64E-03	4.30E-06	1.21E-09	6.91E-02	8.84E-05					
Vermont	Chittenden County	50007	R	3.00E-04	1.78E-01	3.84E-02	1.23E-05	6.54E-08	8.99E-02	2.29E-04					
Vermont	Essex County	50009	R	3.00E-04	1.08E-01	5.19E-03	4.58E-06	1.48E-09	6.80E-02	9.65E-05					
Vermont	Franklin County	50011	R	3.00E-04	1.15E-01	8.67E-03	3.19E-06	5.56E-09	7.06E-02	6.01E-05					
Vermont	Grand Isle County	50013	R	3.00E-04	1.14E-01	5.93E-03	5.81E-06	1.49E-08	7.07E-02	1.18E-04					
Vermont	Lamoille County	50015	R	3.00E-04	1.13E-01	6.47E-03	3.57E-06	1.80E-09	6.96E-02	7.05E-05					
Vermont	Orange County	50017	R	3.00E-04	1.13E-01	8.20E-03	6.99E-06	1.24E-09	6.96E-02	1.47E-04					
Vermont	Orleans County	50019	R	3.00E-04	1.09E-01	5.34E-03	1.99E-06	1.26E-08	6.83E-02	3.69E-05					
Vermont	Rutland County	50021	R	3.00E-04	1.13E-01	7.77E-03	7.95E-06	1.54E-08	6.99E-02	1.58E-04					
Vermont	Washington County	50023	R	3.00E-04	1.18E-01	8.64E-03	3.43E-06	5.41E-09	7.27E-02	6.43E-05					
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