

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Michigan

EPA strongly cautions that these modeling results should not be used to draw conclusions about local concentrations or risk. The results are most meaningful when viewed at the state or national scale. In addition, these results represent conditions in 1996 rather than current conditions.

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- 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 Michigan												
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
Michigan	State Total	26000	-	1.08E-03	5.99E-02	4.67E-02	4.68E-01	6.85E-02	2.40E-03	5.44E-05	1.45E+00	1.00E-05	3.87E-05	6.41E-01	6.90E-02	1.63E-03
Michigan	State Urban Counties	26000	U	1.73E-03	7.41E-02	6.27E-02	7.38E-01	1.02E-01	3.27E-03	9.01E-05	1.80E+00	1.26E-05	8.47E-05	6.41E-01	7.00E-02	1.94E-03
Michigan	State Rural Counties	26000	R	2.62E-04	1.62E-02	8.29E-03	1.09E-01	2.75E-02	4.85E-04	7.92E-06	6.66E-01	9.92E-07	4.12E-06	6.40E-01	6.80E-02	6.63E-05
Michigan	Alcona County	26001	R	1.51E-04	1.19E-02	1.46E-03	9.26E-02	2.39E-02	2.61E-04	1.89E-06	6.00E-01	1.77E-07	7.35E-07	6.38E-01	6.79E-02	7.17E-06
Michigan	Alger County	26003	R	3.43E-05	1.62E-02	9.62E-04	1.12E-01	2.04E-02	6.02E-05	4.30E-06	6.60E-01	2.02E-07	1.05E-06	6.47E-01	6.75E-02	6.04E-06
Michigan	Allegan County	26005	U	4.27E-04	1.87E-02	1.43E-02	2.09E-01	3.05E-02	7.53E-04	8.25E-06	8.01E-01	1.51E-06	5.25E-06	6.41E-01	6.82E-02	4.61E-04
Michigan	Alpena County	26007	R	1.74E-04	2.31E-02	1.31E-02	1.55E-01	3.43E-02	3.06E-04	2.17E-05	7.57E-01	1.26E-06	5.42E-06	6.39E-01	6.78E-02	6.77E-05
Michigan	Antrim County	26009	R	2.23E-04	8.33E-03	4.10E-03	9.53E-02	2.29E-02	3.89E-04	3.01E-06	5.97E-01	4.08E-07	1.31E-06	6.42E-01	6.77E-02	1.69E-05
Michigan	Arenac County	26011	R	3.30E-04	1.67E-02	2.48E-03	7.18E-02	1.94E-02	5.75E-04	8.44E-06	6.82E-01	5.46E-07	2.08E-06	6.40E-01	6.80E-02	8.30E-05
Michigan	Baraga County	26013	R	1.88E-04	1.06E-02	1.15E-03	4.51E-02	2.51E-02	3.26E-04	8.02E-07	5.04E-01	1.07E-07	5.67E-07	6.41E-01	6.77E-02	3.87E-06
Michigan	Barry County	26015	R	4.86E-04	1.51E-02	1.04E-02	1.69E-01	2.63E-02	8.54E-04	4.79E-06	7.41E-01	1.10E-06	5.10E-06	6.43E-01	6.81E-02	1.80E-04
Michigan	Bay County	26017	U	9.09E-04	3.35E-02	3.02E-02	2.27E-01	3.68E-02	5.41E-03	5.02E-05	9.25E-01	4.72E-06	1.94E-05	6.40E-01	6.83E-02	5.69E-04
Michigan	Benzie County	26019	R	2.85E-04	3.12E-02	3.79E-03	1.30E-01	3.22E-02	4.92E-04	3.47E-06	9.30E-01	4.86E-07	1.98E-06	6.40E-01	6.81E-02	1.56E-05
Michigan	Berrien County	26021	R	4.63E-04	3.61E-02	3.09E-02	2.83E-01	3.77E-02	7.66E-04	1.91E-05	1.05E+00	3.40E-06	1.15E-05	6.41E-01	6.83E-02	2.27E-03
Michigan	Branch County	26023	R	6.22E-04	1.37E-02	1.15E-02	1.24E-01	2.12E-02	1.08E-03	4.30E-04	6.66E-01	1.99E-06	7.08E-06	6.44E-01	6.80E-02	1.24E-03
Michigan	Calhoun County	26025	U	5.30E-04	2.98E-02	3.32E-02	2.59E-01	3.35E-02	9.29E-04	1.92E-05	8.94E-01	6.55E-06	1.88E-05	6.41E-01	6.83E-02	3.72E-04
Michigan	Cass County	26027	R	3.58E-04	2.96E-02	1.76E-02	2.97E-01	4.61E-02	5.92E-04	2.88E-05	1.05E+00	2.73E-06	9.45E-06	6.41E-01	6.82E-02	1.13E-03
Michigan	Charlevoix County	26029	R	1.30E-04	1.29E-02	6.56E-03	1.16E-01	2.72E-02	2.29E-04	5.80E-06	7.07E-01	7.87E-07	2.25E-06	6.39E-01	6.79E-02	2.07E-05
Michigan	Cheboygan County	26031	R	1.94E-04	4.83E-02	4.83E-03	1.11E-01	4.76E-02	3.38E-04	3.41E-06	1.28E+00	4.00E-07	1.90E-06	6.38E-01	6.77E-02	1.46E-05
Michigan	Chippewa County	26033	R	1.67E-04	1.52E-02	1.27E-02	6.96E-02	2.76E-02	2.89E-04	5.94E-06	5.74E-01	7.21E-07	1.85E-06	6.41E-01	6.79E-02	2.11E-05
Michigan	Clare County	26035	R	2.61E-04	8.19E-03	3.88E-03	5.08E-02	1.55E-02	4.56E-04	3.27E-06	5.09E-01	3.72E-07	2.57E-06	6.42E-01	6.77E-02	3.17E-05
Michigan	Clinton County	26037	U	3.65E-04	1.43E-02	1.62E-02	1.70E-01	2.28E-02	6.46E-04	1.33E-05	6.97E-01	2.48E-06	5.96E-06	6.40E-01	6.83E-02	1.30E-04
Michigan	Crawford County	26039	R	4.07E-04	9.38E-03	3.66E-03	7.43E-02	3.24E-02	7.06E-04	2.50E-06	6.21E-01	3.54E-07	1.52E-06	6.42E-01	6.80E-02	1.21E-05
Michigan	Delta County	26041	R	6.28E-05	1.60E-02	1.06E-02	7.06E-02	2.63E-02	1.10E-04	1.59E-05	5.62E-01	1.41E-06	5.57E-06	6.38E-01	6.79E-02	6.49E-05
Michigan	Dickinson County	26043	U	4.68E-05	1.86E-02	1.28E-02	6.43E-02	3.12E-02	6.23E-05	3.66E-05	5.83E-01	2.65E-06	1.29E-05	6.47E-01	6.78E-02	1.11E-04
Michigan	Eaton County	26045	U	3.22E-04	2.66E-02	3.32E-02	2.26E-01	3.05E-02	5.80E-04	1.83E-05	8.59E-01	6.94E-06	1.32E-05	6.38E-01	6.83E-02	3.37E-04
Michigan	Emmet County	26047	R	1.46E-04	1.80E-02	6.22E-03	1.14E-01	3.42E-02	2.57E-04	7.40E-06	7.39E-01	1.37E-06	4.66E-06	6.40E-01	6.78E-02	2.14E-05
Michigan	Genesee County	26049	U	1.89E-03	7.39E-02	5.31E-02	5.98E-01	8.32E-02	3.29E-03	3.49E-05	1.74E+00	1.43E-05	2.62E-05	6.42E-01	6.93E-02	3.88E-04
Michigan	Gladwin County	26051	R	2.87E-04	7.66E-03	4.42E-03	6.29E-02	1.95E-02	1.58E-03	6.21E-06	5.27E-01	7.05E-07	6.92E-06	6.40E-01	6.78E-02	5.08E-05
Michigan	Gogebic County	26053	R	5.94E-05	1.31E-02	2.17E-03	5.85E-02	3.10E-02	9.89E-05	2.75E-06	5.41E-01	2.50E-07	1.34E-06	6.41E-01	6.79E-02	1.42E-05
Michigan	Grand Traverse Count	26055	R	1.82E-04	2.88E-02	1.38E-02	1.92E-01	4.21E-02	3.27E-04	1.00E-05	9.33E-01	1.75E-06	5.74E-06	6.42E-01	6.81E-02	6.03E-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
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
Michigan	State Total	26000	-	0.00E+00	1.17E+00	6.08E-03	5.29E-02	1.68E-03	6.91E-01	7.50E-05	4.26E-08	1.59E-03	1.31E-03	1.34E-03	3.17E-01	1.57E-03
Michigan	State Urban Counties	26000	U	1.94E-03	1.35E+00	6.08E-03	5.30E-02	2.53E-03	1.00E+00	7.50E-05	5.87E-08	2.17E-03	1.60E-03	1.52E-03	3.55E-01	2.57E-03
Michigan	State Rural Counties	26000	R	0.00E+00	3.50E-01	6.08E-03	5.26E-02	1.17E-04	3.29E-01	7.50E-05	1.14E-09	1.40E-04	7.49E-05	1.20E-03	1.43E-01	1.12E-04
Michigan	Alcona County	26001	R	0.00E+00	1.74E-01	6.08E-03	5.27E-02	8.51E-06	2.94E-01	7.51E-05	0.00E+00	2.20E-05	5.18E-05	1.19E-03	1.25E-01	1.48E-05
Michigan	Alger County	26003	R	0.00E+00	7.57E-02	6.08E-03	5.20E-02	1.33E-05	2.85E-01	7.48E-05	3.49E-11	3.42E-05	1.68E-04	1.19E-03	1.22E-01	8.70E-06
Michigan	Allegan County	26005	U	0.00E+00	7.39E-01	6.08E-03	5.26E-02	1.45E-04	3.98E-01	7.50E-05	7.42E-09	5.13E-04	2.32E-04	1.23E-03	1.55E-01	1.48E-04
Michigan	Alpena County	26007	R	0.00E+00	2.01E-01	6.07E-03	5.25E-02	2.53E-04	3.69E-01	7.49E-05	6.11E-12	5.38E-04	7.27E-04	1.20E-03	1.43E-01	3.99E-04
Michigan	Antrim County	26009	R	0.00E+00	1.96E-01	6.08E-03	5.24E-02	6.51E-05	2.98E-01	7.50E-05	5.31E-12	9.23E-05	1.35E-05	1.19E-03	1.30E-01	3.58E-05
Michigan	Arenac County	26011	R	0.00E+00	2.98E-01	6.08E-03	5.26E-02	6.66E-05	2.69E-01	7.51E-05	4.08E-10	2.95E-05	1.32E-05	1.20E-03	1.30E-01	3.42E-05
Michigan	Baraga County	26013	R	0.00E+00	8.14E-02	6.07E-03	5.25E-02	2.20E-05	2.81E-01	7.50E-05	3.34E-11	2.49E-05	1.67E-05	1.19E-03	1.23E-01	7.74E-06
Michigan	Barry County	26015	R	0.00E+00	7.34E-01	6.09E-03	5.28E-02	1.55E-04	3.79E-01	7.51E-05	6.85E-09	3.39E-04	1.18E-04	1.22E-03	1.63E-01	8.81E-05
Michigan	Bay County	26017	U	0.00E+00	6.38E-01	6.08E-03	5.28E-02	6.19E-04	4.15E-01	7.51E-05	3.30E-08	6.32E-04	2.24E-03	1.25E-03	1.88E-01	6.96E-04
Michigan	Benzie County	26019	R	0.00E+00	2.48E-01	6.08E-03	5.26E-02	7.94E-05	3.49E-01	7.52E-05	4.67E-10	5.54E-05	3.86E-05	1.20E-03	1.34E-01	2.81E-05
Michigan	Berrien County	26021	R	0.00E+00	9.97E-01	6.08E-03	5.27E-02	5.45E-04	4.52E-01	7.50E-05	1.66E-08	5.51E-04	3.89E-04	1.26E-03	3.18E-01	1.62E-03
Michigan	Branch County	26023	R	0.00E+00	8.89E-01	6.08E-03	5.28E-02	1.56E-04	3.38E-01	7.52E-05	3.01E-09	9.72E-05	2.26E-03	1.23E-03	2.39E-01	1.89E-03
Michigan	Calhoun County	26025	U	0.00E+00	9.35E-01	6.08E-03	5.31E-02	8.86E-04	5.42E-01	7.51E-05	1.67E-08	3.13E-04	1.07E-03	1.27E-03	3.94E-01	3.83E-04
Michigan	Cass County	26027	R	0.00E+00	9.95E-01	6.08E-03	5.28E-02	2.40E-04	4.87E-01	7.51E-05	4.52E-06	7.48E-04	8.34E-04	1.23E-03	3.71E-01	1.02E-03
Michigan	Charlevoix County	26029	R	0.00E+00	1.85E-01	6.08E-03	5.26E-02	8.57E-05	3.18E-01	7.50E-05	7.19E-12	5.72E-05	2.48E-05	1.20E-03	1.34E-01	9.16E-05
Michigan	Cheboygan County	26031	R	0.00E+00	1.35E-01	6.08E-03	5.24E-02	7.44E-05	3.59E-01	7.49E-05	1.06E-12	8.70E-05	1.80E-05	1.20E-03	1.29E-01	5.01E-05
Michigan	Chippewa County	26033	R	0.00E+00	6.78E-02	6.08E-03	5.27E-02	4.46E-05	2.89E-01	7.52E-05	0.00E+00	9.91E-05	4.65E-05	1.19E-03	1.33E-01	6.29E-05
Michigan	Clare County	26035	R	0.00E+00	3.12E-01	6.08E-03	5.24E-02	3.41E-05	2.65E-01	7.50E-05	1.06E-10	3.28E-05	2.74E-05	1.19E-03	1.45E-01	1.82E-05
Michigan	Clinton County	26037	U	0.00E+00	7.79E-01	6.08E-03	5.26E-02	2.40E-04	3.56E-01	7.51E-05	4.60E-09	1.38E-03	1.16E-04	1.22E-03	1.79E-01	2.25E-04
Michigan	Crawford County	26039	R	0.00E+00	2.21E-01	6.08E-03	5.27E-02	9.39E-05	3.08E-01	7.51E-05	6.34E-09	2.38E-05	4.00E-05	1.20E-03	1.30E-01	2.16E-05
Michigan	Delta County	26041	R	0.00E+00	1.42E-01	6.08E-03	5.25E-02	6.93E-05	3.11E-01	7.50E-05	8.70E-12	5.81E-04	2.66E-04	1.20E-03	1.38E-01	1.93E-04
Michigan	Dickinson County	26043	U	0.00E+00	1.76E-01	6.08E-03	5.24E-02	2.62E-04	3.28E-01	7.49E-05	2.07E-08	1.41E-03	1.99E-03	1.20E-03	1.43E-01	1.55E-04
Michigan	Eaton County	26045	U	0.00E+00	8.80E-01	6.08E-03	5.26E-02	3.31E-04	4.17E-01	7.51E-05	1.53E-08	7.70E-04	3.27E-04	1.23E-03	2.10E-01	2.59E-04
Michigan	Emmet County	26047	R	0.00E+00	1.95E-01	6.08E-03	5.24E-02	3.30E-04	3.35E-01	7.50E-05	2.63E-12	1.41E-04	5.29E-05	1.21E-03	1.38E-01	6.35E-05
Michigan	Genesee County	26049	U	0.00E+00	1.13E+00	6.08E-03	5.30E-02	1.26E-03	7.28E-01	7.50E-05	1.60E-08	4.99E-04	1.24E-03	1.33E-03	2.90E-01	6.20E-04
Michigan	Gladwin County	26051	R	0.00E+00	3.32E-01	6.08E-03	5.25E-02	5.15E-05	2.71E-01	7.50E-05	2.75E-09	1.04E-04	3.48E-05	1.20E-03	1.35E-01	3.65E-05
Michigan	Gogebic County	26053	R	0.00E+00	1.16E-01	6.08E-03	5.25E-02	4.31E-05	2.99E-01	7.51E-05	0.00E+00	1.74E-04	1.57E-04	1.19E-03	1.25E-01	2.26E-05
Michigan	Grand Traverse Count	26055	R	0.00E+00	3.67E-01	6.08E-03	5.28E-02	6.61E-04	4.03E-01	7.51E-05	8.13E-12	8.91E-04	3.72E-05	1.23E-03	1.54E-01	1.05E-04

1996 Modeled Exposure Concentrations for Michigan

EPA strongly cautions that these modeling results should not be used to draw conclusions about local concentrations or risk. The results are most meaningful when viewed at the state or national scale. In addition, these results represent conditions in 1996 rather than current conditions.

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- 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 Michigan											
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					
Michigan	State Total	26000	-	3.00E-04	1.79E-01	6.69E-02	1.27E-04	7.75E-07	1.08E-01	2.97E-03					
Michigan	State Urban Counties	26000	U	3.00E-04	2.01E-01	8.93E-02	1.95E-04	2.68E-04	1.17E-01	4.63E-03					
Michigan	State Rural Counties	26000	R	3.00E-04	1.15E-01	1.69E-02	2.97E-05	9.44E-09	7.23E-02	6.46E-04					
Michigan	Alcona County	26001	R	3.00E-04	1.07E-01	8.47E-03	1.65E-05	0.00E+00	6.83E-02	3.54E-04					
Michigan	Alger County	26003	R	3.00E-04	1.08E-01	5.34E-03	3.77E-06	9.32E-10	6.73E-02	8.63E-05					
Michigan	Allegan County	26005	U	3.00E-04	1.20E-01	1.37E-02	4.77E-05	7.14E-08	7.50E-02	1.03E-03					
Michigan	Alpena County	26007	R	3.00E-04	1.16E-01	3.65E-02	1.91E-05	1.83E-10	7.15E-02	4.06E-04					
Michigan	Antrim County	26009	R	3.00E-04	1.11E-01	1.48E-02	2.45E-05	1.39E-10	7.83E-02	5.24E-04					
Michigan	Arenac County	26011	R	3.00E-04	1.09E-01	9.99E-03	3.61E-05	4.37E-09	6.91E-02	7.77E-04					
Michigan	Baraga County	26013	R	2.99E-04	1.07E-01	6.53E-03	2.05E-05	5.67E-10	6.78E-02	4.42E-04					
Michigan	Barry County	26015	R	3.00E-04	1.21E-01	1.10E-02	5.39E-05	5.68E-08	7.31E-02	1.16E-03					
Michigan	Bay County	26017	U	3.00E-04	1.39E-01	1.04E-01	1.02E-04	1.91E-07	7.85E-02	2.51E-03					
Michigan	Benzie County	26019	R	3.00E-04	1.11E-01	1.72E-02	3.12E-05	1.01E-08	7.00E-02	6.65E-04					
Michigan	Berrien County	26021	R	3.00E-04	1.52E-01	3.04E-02	4.86E-05	6.28E-08	1.03E-01	1.03E-03					
Michigan	Branch County	26023	R	3.00E-04	1.19E-01	1.43E-02	6.82E-05	1.59E-08	7.49E-02	1.47E-03					
Michigan	Calhoun County	26025	U	3.00E-04	1.68E-01	3.28E-02	5.87E-05	6.03E-08	8.54E-02	1.27E-03					
Michigan	Cass County	26027	R	3.00E-04	1.31E-01	2.33E-02	3.74E-05	4.13E-08	8.53E-02	7.98E-04					
Michigan	Charlevoix County	26029	R	3.00E-04	1.19E-01	1.95E-02	1.43E-05	1.98E-10	7.35E-02	3.06E-04					
Michigan	Cheboygan County	26031	R	3.00E-04	1.10E-01	1.53E-02	2.12E-05	2.36E-11	6.93E-02	4.57E-04					
Michigan	Chippewa County	26033	R	3.00E-04	1.11E-01	2.95E-02	1.82E-05	0.00E+00	7.00E-02	3.93E-04					
Michigan	Clare County	26035	R	3.00E-04	1.10E-01	1.63E-02	2.87E-05	2.14E-09	6.90E-02	6.21E-04					
Michigan	Clinton County	26037	U	3.00E-04	1.25E-01	1.60E-02	4.06E-05	2.28E-08	1.28E-01	8.76E-04					
Michigan	Crawford County	26039	R	3.00E-04	1.11E-01	1.52E-02	4.47E-05	3.13E-08	6.97E-02	1.10E-03					
Michigan	Delta County	26041	R	3.00E-04	1.17E-01	2.59E-02	6.91E-06	1.63E-10	7.01E-02	1.47E-04					
Michigan	Dickinson County	26043	U	3.00E-04	1.33E-01	3.73E-02	5.96E-06	6.43E-08	7.43E-02	1.15E-04					
Michigan	Eaton County	26045	U	3.00E-04	1.30E-01	3.26E-02	3.67E-05	6.30E-08	9.68E-02	8.88E-04					
Michigan	Emmet County	26047	R	3.00E-04	1.13E-01	2.32E-02	1.61E-05	6.35E-11	7.17E-02	3.43E-04					
Michigan	Genesee County	26049	U	3.00E-04	1.75E-01	5.88E-02	2.08E-04	7.99E-08	9.41E-02	4.45E-03					
Michigan	Gladwin County	26051	R	3.00E-04	1.09E-01	1.64E-02	3.19E-05	4.43E-08	6.89E-02	7.59E-04					
Michigan	Gogebic County	26053	R	3.00E-04	1.08E-01	1.08E-02	6.53E-06	0.00E+00	7.19E-02	1.39E-04					
Michigan	Grand Traverse Count	26055	R	3.00E-04	1.30E-01	4.50E-02	2.03E-05	1.85E-10	7.57E-02	4.29E-04					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan													
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	
Michigan	Gratiot County	26057	R	1.96E-04	5.74E-03	7.65E-03	9.44E-02	1.69E-02	1.76E-03	8.08E-06	5.44E-01	1.11E-06	1.06E-05	6.40E-01	6.80E-02	8.14E-05	
Michigan	Hillsdale County	26059	R	2.92E-04	6.73E-03	6.63E-03	1.08E-01	1.62E-02	5.14E-04	2.55E-04	5.92E-01	7.90E-06	1.00E-05	6.42E-01	6.79E-02	6.95E-04	
Michigan	Houghton County	26061	R	3.51E-04	2.46E-02	1.19E-02	9.05E-02	3.33E-02	6.08E-04	1.33E-05	6.23E-01	1.22E-06	4.39E-06	6.40E-01	6.78E-02	3.71E-05	
Michigan	Huron County	26063	R	2.77E-04	1.05E-02	2.34E-03	6.17E-02	9.61E-03	4.81E-04	1.66E-06	5.98E-01	4.80E-07	1.08E-06	6.39E-01	6.78E-02	8.08E-06	
Michigan	Ingham County	26065	U	5.89E-04	5.50E-02	5.79E-02	3.56E-01	4.78E-02	1.04E-03	4.57E-05	1.23E+00	1.20E-05	2.47E-05	6.40E-01	6.87E-02	3.92E-04	
Michigan	Ionia County	26067	R	2.68E-04	1.17E-02	1.35E-02	1.49E-01	2.16E-02	4.83E-04	7.32E-06	6.45E-01	1.41E-06	3.63E-06	6.42E-01	6.81E-02	7.25E-04	
Michigan	Iosco County	26069	R	2.07E-04	1.89E-02	2.70E-03	1.10E-01	2.70E-02	3.59E-04	3.36E-06	7.11E-01	2.60E-07	1.08E-06	6.43E-01	6.78E-02	1.93E-05	
Michigan	Iron County	26071	R	3.24E-04	2.06E-02	3.92E-03	5.31E-02	3.84E-02	5.58E-04	3.70E-06	5.42E-01	3.60E-07	1.48E-06	6.39E-01	6.78E-02	1.08E-05	
Michigan	Isabella County	26073	R	2.05E-04	8.33E-03	1.43E-02	8.41E-02	1.79E-02	1.63E-03	1.16E-05	5.74E-01	1.22E-06	1.35E-05	6.43E-01	6.81E-02	4.29E-04	
Michigan	Jackson County	26075	R	3.99E-04	4.49E-02	3.44E-02	3.01E-01	4.57E-02	7.15E-04	2.02E-05	1.18E+00	3.25E-04	4.17E-04	6.39E-01	6.84E-02	1.15E-03	
Michigan	Kalamazoo County	26077	U	4.61E-04	4.59E-02	3.74E-02	3.40E-01	4.58E-02	8.27E-04	2.20E-05	1.09E+00	5.70E-06	2.69E-05	6.40E-01	6.85E-02	9.60E-04	
Michigan	Kalkaska County	26079	R	2.10E-04	8.46E-03	3.04E-03	6.89E-02	2.70E-02	3.66E-04	2.15E-06	5.61E-01	2.93E-07	9.88E-07	6.42E-01	6.77E-02	2.23E-05	
Michigan	Kent County	26081	U	1.06E-03	5.61E-02	5.50E-02	4.34E-01	6.24E-02	1.94E-03	3.56E-05	1.33E+00	7.86E-06	1.92E-05	6.41E-01	6.88E-02	2.83E-03	
Michigan	Keweenaw County	26083	R	7.76E-06	1.10E-02	1.28E-04	6.20E-02	8.40E-03	1.34E-05	1.20E-07	5.78E-01	1.48E-08	4.77E-08	6.40E-01	6.78E-02	4.80E-07	
Michigan	Lake County	26085	R	1.86E-04	9.91E-03	2.18E-03	4.52E-02	1.83E-02	3.22E-04	1.20E-06	5.46E-01	1.68E-07	5.58E-07	6.42E-01	6.76E-02	7.04E-06	
Michigan	Lapeer County	26087	U	1.01E-03	2.23E-02	1.78E-02	3.37E-01	4.77E-02	1.77E-03	1.17E-05	9.88E-01	2.64E-06	1.30E-05	6.42E-01	6.84E-02	7.73E-04	
Michigan	Leelanau County	26089	R	1.29E-04	2.13E-02	4.54E-03	1.70E-01	2.83E-02	2.27E-04	2.99E-06	8.26E-01	4.72E-07	1.59E-06	6.43E-01	6.79E-02	1.64E-05	
Michigan	Lenawee County	26091	U	4.10E-04	1.13E-02	1.58E-02	2.15E-01	2.97E-02	7.36E-04	2.26E-05	7.26E-01	9.94E-06	2.13E-05	6.40E-01	6.83E-02	2.08E-04	
Michigan	Livingston County	26093	U	5.80E-04	2.58E-02	2.57E-02	3.69E-01	5.45E-02	1.03E-03	1.33E-05	1.05E+00	4.97E-06	1.84E-05	6.42E-01	6.87E-02	3.69E-04	
Michigan	Luce County	26095	R	1.80E-04	1.72E-02	1.15E-03	7.95E-02	3.14E-02	3.11E-04	1.28E-06	6.02E-01	1.16E-07	7.91E-07	6.33E-01	6.80E-02	4.45E-06	
Michigan	Mackinac County	26097	R	1.42E-04	9.19E-03	1.16E-03	4.87E-02	2.07E-02	2.46E-04	4.60E-06	5.38E-01	1.35E-07	8.86E-07	6.40E-01	6.78E-02	1.99E-05	
Michigan	Macomb County	26099	U	2.47E-03	7.42E-02	8.35E-02	7.77E-01	1.05E-01	4.38E-03	1.58E-03	1.81E+00	1.33E-05	9.30E-05	6.41E-01	7.08E-02	2.29E-03	
Michigan	Manistee County	26101	R	2.89E-04	1.07E-02	3.23E-03	9.32E-02	2.06E-02	5.02E-04	2.65E-06	6.48E-01	3.10E-07	1.54E-06	6.40E-01	6.79E-02	1.59E-05	
Michigan	Marquette County	26103	R	1.42E-04	2.82E-02	1.39E-02	9.25E-02	4.27E-02	2.48E-04	1.74E-05	6.53E-01	1.73E-06	5.04E-06	6.39E-01	6.78E-02	3.47E-05	
Michigan	Mason County	26105	R	3.08E-04	8.92E-03	3.61E-03	6.85E-02	1.46E-02	5.33E-04	3.90E-06	5.69E-01	3.23E-07	1.30E-06	6.38E-01	6.78E-02	1.99E-05	
Michigan	Mecosta County	26107	R	2.41E-04	7.91E-03	6.80E-03	7.25E-02	1.70E-02	4.22E-04	3.87E-06	5.33E-01	5.54E-07	1.78E-06	6.41E-01	6.79E-02	6.20E-05	
Michigan	Menominee County	26109	R	8.89E-05	1.13E-02	6.09E-03	5.19E-02	2.14E-02	1.49E-04	7.18E-05	5.42E-01	8.12E-07	1.97E-05	6.44E-01	7.00E-02	1.16E-03	
Michigan	Midland County	26111	U	4.85E-04	3.44E-02	1.66E-02	1.36E-01	4.82E-02	1.66E-02	4.91E-05	7.06E-01	5.33E-06	6.97E-05	6.45E-01	6.81E-02	2.42E-04	
Michigan	Missaukee County	26113	R	1.97E-04	5.99E-03	3.34E-03	4.92E-02	1.70E-02	3.42E-04	2.27E-06	5.06E-01	3.35E-07	1.05E-06	6.42E-01	6.79E-02	1.39E-05	
Michigan	Monroe County	26115	U	7.26E-04	2.31E-02	2.94E-02	4.27E-01	5.42E-02	1.29E-03	8.09E-05	9.99E-01	4.05E-05	9.75E-05	6.39E-01	6.88E-02	1.34E-03	
Michigan	Montcalm County	26117	R	3.37E-04	8.55E-03	5.96E-03	1.02E-01	1.71E-02	5.94E-04	3.21E-06	5.84E-01	6.37E-07	3.29E-06	6.39E-01	6.82E-02	1.26E-04	
Michigan	Montmorency County	26119	R	2.51E-04	7.92E-03	1.47E-03	5.51E-02	2.76E-02	4.32E-04	1.86E-06	5.97E-01	1.89E-07	7.79E-07	6.38E-01	6.79E-02	7.80E-06	
Michigan	Muskegon County	26121	U	5.75E-04	3.52E-02	3.03E-02	2.99E-01	4.27E-02	1.03E-03	2.57E-05	1.02E+00	4.06E-06	1.11E-05	6.38E-01	6.90E-02	3.57E-03	
Michigan	Newaygo County	26123	R	2.58E-04	8.34E-03	7.34E-03	1.18E-01	2.28E-02	4.60E-04	6.44E-06	6.00E-01	8.18E-07	3.43E-06	6.43E-01	6.80E-02	1.96E-04	
Michigan	Oakland County	26125	U	2.62E-03	8.33E-02	7.67E-02	9.15E-01	1.24E-01	4.61E-03	8.99E-04	2.05E+00	1.37E-05	9.67E-05	6.41E-01	7.06E-02	1.96E-03	
Michigan	Oceana County	26127	R	4.67E-04	3.08E-02	3.70E-03	1.10E-01	2.81E-02	8.10E-04	4.51E-06	8.91E-01	4.63E-07	1.91E-06	6.42E-01	6.79E-02	1.18E-04	
Michigan	Ogemaw County	26129	R	1.71E-04	1.04E-02	2.43E-03	5.24E-02	1.87E-02	2.98E-04	6.87E-06	5.64E-01	2.13E-07	8.00E-07	6.42E-01	6.78E-02	2.93E-05	
Michigan	Ontonagon County	26131	R	6.35E-05	8.72E-03	2.88E-04	5.50E-02	1.46E-02	1.10E-04	4.08E-07	5.42E-01	3.94E-08	2.21E-07	6.47E-01	6.76E-02	1.44E-06	
Michigan	Osceola County	26133	R	2.61E-04	6.56E-03	3.76E-03	4.94E-02	1.49E-02	4.52E-04	2.71E-06	5.11E-01	3.74E-07	1.41E-06	6.44E-01	6.78E-02	1.47E-05	
Michigan	Oscoda County	26135	R	2.90E-04	1.13E-02	2.21E-03	5.85E-02	3.52E-02	5.01E-04	2.12E-06	5.45E-01	2.07E-07	8.60E-07	6.40E-01	6.79E-02	7.73E-06	
Michigan	Otsego County	26137	R	3.12E-04	8.26E-02	1.07E-02	1.84E-01	7.17E-02	5.45E-04	7.39E-06	1.63E+00	1.11E-06	3.52E-06	6.38E-01	6.81E-02	4.01E-05	
Michigan	Ottawa County	26139	U	5.23E-04	5.51E-02	3.78E-02	3.88E-01	5.68E-02	9.65E-04	2.30E-05	1.33E+00	4.83E-06	1.15E-05	6.41E-01	6.87E-02	1.26E-03	
Michigan	Presque Isle County	26141	R	1.68E-04	1.43E-02	1.89E-03	9.17E-02	2.51E-02	2.91E-04	2.43E-05	6.66E-01	3.93E-07	3.34E-06	6.39E-01	6.78E-02	1.02E-04	
Michigan	Roscommon County	26143	R	3.40E-04	1.25E-02	4.92E-03	5.74E-02	2.25E-02	5.88E-04	3.32E-06	5.34E-01	4.55E-07	1.10E-06	6.38E-01	6.79E-02	1.39E-05	
Michigan	Saginaw County	26145	U	9.82E-04	3.45E-02	3.74E-02	2.98E-01	4.72E-02	5.71E-03	2.90E-05	1.02E+00	6.44E-06	1.98E-05	6.42E-01	6.84E-02	9.18E-04	
Michigan	St. Clair County	26147	U	2.82E-04	1.83E-02	2.32E-02	1.52E-01	2.27E-02	5.03E-04	1.35E-03	7.58E-01	3.45E-06	1.13E-05	6.39E-01	6.82E-02	5.74E-04	
Michigan	St. Joseph County	26149	R	3.74E-04	3.48E-02	1.62E-02	2.20E-01	4.13E-02	6.57E-04	9.28E-05	1.02E+00	2.33E-06	1.01E-05	6.40E-01	6.83E-02	6.22E-04	
Michigan	Sanilac County	26151	R	2.48E-04	8.70E-03	3.54E-03	7.78E-02	1.29E-02	4.32E-04	1.80E-06	6.00E-01	4.05E-07	1.24E-06	6.38E-01	6.80E-02	4.71E-05	
Michigan	Schoolcraft County	26153	R	2.44E-04	1.45E-02	1.63E-03	7.81E-02	2.68E-02	4.19E-04	8.04E-06	5.78E-01	1.70E-07	1.57E-06	6.29E-01	6.79E-02	3.09E-05	
Michigan	Shiawassee County	26155	R	7.56E-04	2.08E-02	1.96E-02	2.35E-01	3.51E-02	1.33E-03	1.01E-05	8.22E-01	2.65E-06	7.56E-06	6.39E-01	6.84E-02	2.62E-04	
Michigan	Tuscola County	26157	R	5.61E-04	9.71E-03	8.29E-03	1.51E-01	2.36E-02	9.79E-04	1.09E-05	6.57E-01	1.48E-06	4.37E-06	6.40E-01	6.81E-02	1.59E-04	

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan												
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
Michigan	Gratiot County	26057	R	0.00E+00	5.73E-01	6.08E-03	5.27E-02	1.61E-04	2.75E-01	7.51E-05	6.48E-09	3.06E-04	1.11E-04	1.22E-03	1.38E-01	1.25E-04
Michigan	Hillsdale County	26059	R	0.00E+00	7.99E-01	6.08E-03	5.25E-02	8.52E-05	2.90E-01	7.51E-05	1.04E-08	1.13E-04	1.98E-03	1.20E-03	1.45E-01	8.21E-04
Michigan	Houghton County	26061	R	0.00E+00	1.40E-01	6.09E-03	5.26E-02	2.59E-04	3.61E-01	7.50E-05	3.07E-09	2.52E-04	8.34E-04	1.20E-03	1.44E-01	5.29E-05
Michigan	Huron County	26063	R	0.00E+00	3.36E-01	6.08E-03	5.26E-02	4.60E-05	2.35E-01	7.51E-05	2.11E-09	1.98E-05	6.46E-06	1.19E-03	1.28E-01	1.70E-05
Michigan	Ingham County	26065	U	0.00E+00	1.08E+00	6.08E-03	5.27E-02	1.29E-03	5.47E-01	7.51E-05	3.62E-08	1.54E-03	6.74E-04	1.28E-03	3.94E-01	9.45E-04
Michigan	Ionia County	26067	R	0.00E+00	7.08E-01	6.08E-03	5.25E-02	1.29E-04	3.40E-01	7.50E-05	5.50E-09	2.75E-03	1.48E-04	1.22E-03	1.49E-01	1.31E-04
Michigan	Iosco County	26069	R	0.00E+00	2.44E-01	6.08E-03	5.25E-02	2.19E-05	3.02E-01	7.49E-05	5.74E-12	1.61E-05	9.55E-06	1.19E-03	1.34E-01	3.00E-05
Michigan	Iron County	26071	R	0.00E+00	1.34E-01	6.08E-03	5.27E-02	5.67E-05	3.38E-01	7.49E-05	2.35E-13	3.26E-05	1.92E-04	1.19E-03	1.30E-01	2.11E-05
Michigan	Isabella County	26073	R	0.00E+00	4.93E-01	6.09E-03	5.26E-02	8.52E-05	2.78E-01	7.51E-05	1.63E-09	1.55E-04	5.23E-04	1.21E-03	1.48E-01	8.22E-05
Michigan	Jackson County	26075	R	0.00E+00	1.01E+00	6.08E-03	5.26E-02	7.86E-04	4.89E-01	7.50E-05	6.17E-08	6.13E-04	1.87E-03	1.27E-03	2.59E-01	7.05E-04
Michigan	Kalamazoo County	26077	U	0.00E+00	1.06E+00	6.08E-03	5.38E-02	1.05E-03	6.89E-01	7.50E-05	7.91E-08	6.95E-04	8.62E-05	1.35E-03	5.48E-01	5.32E-04
Michigan	Kalkaska County	26079	R	0.00E+00	2.01E-01	6.07E-03	5.25E-02	5.55E-05	3.04E-01	7.49E-05	2.28E-11	5.94E-05	9.57E-06	1.19E-03	1.29E-01	2.06E-05
Michigan	Kent County	26081	U	0.00E+00	9.65E-01	6.08E-03	5.28E-02	1.36E-03	6.18E-01	7.50E-05	3.07E-07	1.44E-03	1.31E-03	1.31E-03	2.80E-01	7.83E-04
Michigan	Keweenaw County	26083	R	0.00E+00	3.34E-02	6.08E-03	5.27E-02	2.01E-06	2.26E-01	7.51E-05	1.67E-12	1.23E-05	5.88E-06	1.19E-03	1.21E-01	7.43E-07
Michigan	Lake County	26085	R	0.00E+00	3.23E-01	6.08E-03	5.23E-02	1.11E-05	2.60E-01	7.49E-05	6.88E-11	9.83E-06	6.80E-06	1.19E-03	1.25E-01	1.01E-05
Michigan	Lapeer County	26087	U	0.00E+00	8.08E-01	6.08E-03	5.25E-02	5.69E-04	5.85E-01	7.50E-05	1.11E-08	2.20E-04	1.69E-04	1.28E-03	1.77E-01	3.00E-04
Michigan	Leelanau County	26089	R	0.00E+00	2.30E-01	6.08E-03	5.26E-02	1.38E-04	3.39E-01	7.51E-05	4.08E-12	2.00E-04	1.23E-05	1.20E-03	1.31E-01	2.43E-05
Michigan	Lenawee County	26091	U	0.00E+00	9.76E-01	6.09E-03	5.25E-02	3.59E-04	4.02E-01	7.51E-05	3.36E-08	2.98E-04	5.58E-04	1.26E-03	1.61E-01	3.22E-04
Michigan	Livingston County	26093	U	0.00E+00	1.07E+00	6.08E-03	5.26E-02	9.38E-04	5.85E-01	7.51E-05	1.60E-08	2.31E-04	1.76E-04	1.28E-03	1.93E-01	5.10E-04
Michigan	Luce County	26095	R	0.00E+00	5.94E-02	6.08E-03	5.30E-02	3.69E-05	3.15E-01	7.52E-05	0.00E+00	1.63E-05	5.15E-05	1.19E-03	1.24E-01	1.50E-05
Michigan	Mackinac County	26097	R	0.00E+00	5.97E-02	6.08E-03	5.23E-02	1.78E-05	2.62E-01	7.50E-05	0.00E+00	7.52E-05	1.84E-05	1.19E-03	1.24E-01	1.41E-04
Michigan	Macomb County	26099	U	3.38E-03	1.31E+00	6.08E-03	5.32E-02	2.16E-03	1.02E+00	7.50E-05	5.82E-08	1.94E-03	1.97E-03	1.58E-03	3.43E-01	2.45E-03
Michigan	Manistee County	26101	R	0.00E+00	2.57E-01	6.08E-03	5.26E-02	5.75E-05	3.04E-01	7.50E-05	1.31E-08	5.21E-05	7.59E-05	1.20E-03	1.29E-01	2.79E-05
Michigan	Marquette County	26103	R	0.00E+00	1.18E-01	6.08E-03	5.25E-02	3.46E-04	3.67E-01	7.49E-05	1.51E-08	4.03E-04	3.75E-05	1.20E-03	1.46E-01	1.29E-04
Michigan	Mason County	26105	R	0.00E+00	3.38E-01	6.09E-03	5.27E-02	3.77E-05	2.54E-01	7.51E-05	1.11E-10	2.37E-05	2.60E-05	1.19E-03	1.28E-01	9.38E-05
Michigan	Mecosta County	26107	R	0.00E+00	4.25E-01	6.08E-03	5.24E-02	6.58E-05	2.66E-01	7.51E-05	3.22E-09	4.81E-05	3.10E-05	1.19E-03	1.32E-01	6.46E-05
Michigan	Menominee County	26109	R	0.00E+00	2.12E-01	6.08E-03	5.27E-02	3.72E-05	2.81E-01	7.50E-05	2.29E-08	4.18E-04	1.01E-02	1.20E-03	1.58E-01	1.04E-03
Michigan	Midland County	26111	U	0.00E+00	5.06E-01	6.09E-03	5.27E-02	5.51E-04	3.36E-01	7.51E-05	5.21E-07	6.33E-04	6.77E-04	1.25E-03	1.66E-01	2.90E-04
Michigan	Missaukee County	26113	R	0.00E+00	2.69E-01	6.09E-03	5.26E-02	3.06E-05	2.62E-01	7.51E-05	1.35E-12	2.13E-05	9.07E-06	1.19E-03	1.30E-01	2.07E-05
Michigan	Monroe County	26115	U	1.42E-03	1.15E+00	6.08E-03	5.28E-02	8.59E-04	6.02E-01	7.51E-05	7.33E-09	2.47E-03	1.06E-03	1.36E-03	1.94E-01	1.90E-03
Michigan	Montcalm County	26117	R	0.00E+00	5.79E-01	6.08E-03	5.29E-02	1.54E-04	2.91E-01	7.52E-05	1.62E-09	2.51E-04	4.90E-05	1.23E-03	1.37E-01	2.74E-04
Michigan	Montmorency County	26119	R	0.00E+00	1.26E-01	6.08E-03	5.26E-02	1.16E-05	2.77E-01	7.50E-05	1.82E-11	2.07E-05	1.59E-05	1.19E-03	1.24E-01	2.47E-05
Michigan	Muskegon County	26121	U	0.00E+00	7.41E-01	6.08E-03	5.28E-02	6.84E-04	4.66E-01	7.50E-05	8.99E-08	4.33E-04	2.31E-03	1.25E-03	2.09E-01	2.33E-03
Michigan	Newaygo County	26123	R	0.00E+00	5.09E-01	6.08E-03	5.25E-02	1.38E-04	3.13E-01	7.51E-05	9.21E-09	7.03E-05	1.09E-04	1.23E-03	1.41E-01	1.19E-04
Michigan	Oakland County	26125	U	1.99E-03	1.41E+00	6.08E-03	5.32E-02	5.91E-03	1.26E+00	7.50E-05	5.36E-08	2.82E-03	1.48E-03	1.57E-03	3.75E-01	3.89E-03
Michigan	Oceana County	26127	R	0.00E+00	4.37E-01	6.08E-03	5.23E-02	5.12E-05	3.09E-01	7.49E-05	6.78E-10	4.13E-05	7.49E-05	1.20E-03	1.35E-01	8.80E-05
Michigan	Ogemaw County	26129	R	0.00E+00	2.50E-01	6.08E-03	5.25E-02	2.49E-05	2.60E-01	7.50E-05	2.62E-11	1.36E-05	7.02E-06	1.19E-03	1.35E-01	1.12E-04
Michigan	Ontonagon County	26131	R	0.00E+00	7.23E-02	6.08E-03	5.21E-02	9.55E-06	2.50E-01	7.48E-05	0.00E+00	4.38E-06	2.52E-05	1.19E-03	1.21E-01	2.71E-06
Michigan	Osceola County	26133	R	0.00E+00	3.42E-01	6.08E-03	5.24E-02	2.76E-05	2.61E-01	7.49E-05	7.84E-11	2.52E-05	1.17E-05	1.19E-03	1.30E-01	2.37E-05
Michigan	Oscoda County	26135	R	0.00E+00	1.86E-01	6.08E-03	5.26E-02	6.50E-06	3.15E-01	7.50E-05	5.43E-11	1.84E-05	1.39E-05	1.19E-03	1.26E-01	2.41E-05
Michigan	Otsego County	26137	R	0.00E+00	2.50E-01	6.08E-03	5.29E-02	1.36E-04	5.02E-01	7.51E-05	4.05E-09	8.14E-05	5.38E-05	1.20E-03	1.45E-01	8.83E-05
Michigan	Ottawa County	26139	U	0.00E+00	9.37E-01	6.08E-03	5.27E-02	4.49E-04	5.53E-01	7.50E-05	6.57E-08	1.83E-03	5.66E-04	1.26E-03	2.21E-01	5.69E-04
Michigan	Presque Isle County	26141	R	0.00E+00	1.06E-01	6.07E-03	5.24E-02	1.40E-05	2.85E-01	7.50E-05	3.35E-10	3.60E-05	1.11E-04	1.19E-03	1.24E-01	8.60E-04
Michigan	Roscommon County	26143	R	0.00E+00	2.41E-01	6.09E-03	5.27E-02	6.79E-06	2.97E-01	7.50E-05	6.88E-11	1.65E-05	1.38E-05	1.19E-03	1.32E-01	2.38E-05
Michigan	Saginaw County	26145	U	0.00E+00	7.21E-01	6.08E-03	5.28E-02	9.92E-04	4.66E-01	7.51E-05	3.01E-08	1.45E-03	8.86E-03	1.26E-03	2.14E-01	1.63E-03
Michigan	St. Clair County	26147	U	0.00E+00	6.94E-01	6.08E-03	5.26E-02	3.70E-04	3.49E-01	7.50E-05	3.00E-08	7.35E-04	7.30E-04	1.23E-03	1.86E-01	3.04E-04
Michigan	St. Joseph County	26149	R	0.00E+00	9.71E-01	6.09E-03	5.31E-02	1.57E-04	4.74E-01	7.52E-05	3.43E-09	4.25E-04	3.93E-04	1.23E-03	3.67E-01	4.52E-04
Michigan	Sanilac County	26151	R	0.00E+00	4.90E-01	6.08E-03	5.28E-02	5.44E-05	2.53E-01	7.51E-05	7.72E-10	2.61E-05	9.24E-06	1.19E-03	1.32E-01	3.12E-05
Michigan	Schoolcraft County	26153	R	0.00E+00	8.42E-02	6.08E-03	5.29E-02	1.84E-05	2.97E-01	7.50E-05	0.00E+00	2.79E-05	2.08E-04	1.19E-03	1.25E-01	2.35E-04
Michigan	Shiawassee County	26155	R	0.00E+00	8.37E-01	6.08E-03	5.27E-02	3.03E-04	4.22E-01	7.51E-05	4.51E-10	3.74E-04	1.81E-04	1.24E-03	1.72E-01	1.74E-04
Michigan	Tuscola County	26157	R	0.00E+00	5.84E-01	6.08E-03	5.25E-02	1.78E-04	3.31E-01	7.51E-05	1.45E-09	2.28E-04	8.83E-04	1.22E-03	1.43E-01	2.24E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Michigan	Gratiot County	26057	R	3.00E-04	1.14E-01	1.19E-02	2.28E-05	7.89E-08	9.67E-02	5.77E-04					
Michigan	Hillsdale County	26059	R	3.00E-04	1.17E-01	8.09E-03	3.26E-05	5.20E-08	8.17E-02	7.02E-04					
Michigan	Houghton County	26061	R	3.00E-04	1.14E-01	4.13E-02	3.84E-05	8.21E-09	7.09E-02	8.24E-04					
Michigan	Huron County	26063	R	3.00E-04	1.10E-01	2.95E-03	3.02E-05	7.35E-09	6.85E-02	6.53E-04					
Michigan	Ingham County	26065	U	3.00E-04	1.84E-01	5.80E-02	6.62E-05	1.33E-07	1.20E-01	1.47E-03					
Michigan	Ionia County	26067	R	3.00E-04	1.20E-01	1.31E-02	3.03E-05	7.58E-08	8.53E-02	6.40E-04					
Michigan	Iosco County	26069	R	3.00E-04	1.09E-01	1.39E-02	2.26E-05	1.33E-10	6.81E-02	4.85E-04					
Michigan	Iron County	26071	R	3.00E-04	1.09E-01	1.57E-02	3.53E-05	5.66E-12	6.93E-02	7.61E-04					
Michigan	Isabella County	26073	R	3.00E-04	1.17E-01	3.31E-02	2.31E-05	4.01E-08	7.89E-02	5.61E-04					
Michigan	Jackson County	26075	R	3.00E-04	1.50E-01	3.59E-02	4.84E-05	2.07E-07	8.48E-02	9.63E-04					
Michigan	Kalamazoo County	26077	U	3.00E-04	1.73E-01	3.89E-02	5.40E-05	2.82E-07	8.46E-02	1.42E-03					
Michigan	Kalkaska County	26079	R	3.00E-04	1.10E-01	1.23E-02	2.30E-05	5.53E-10	7.06E-02	4.96E-04					
Michigan	Kent County	26081	U	3.00E-04	1.83E-01	5.49E-02	1.32E-04	1.14E-06	1.27E-01	2.77E-03					
Michigan	Keweenaw County	26083	R	3.00E-04	1.05E-01	9.40E-04	8.47E-07	4.53E-11	6.78E-02	1.82E-05					
Michigan	Lake County	26085	R	3.00E-04	1.08E-01	8.61E-03	2.04E-05	1.53E-09	6.83E-02	4.36E-04					
Michigan	Lapeer County	26087	U	3.00E-04	1.25E-01	2.10E-02	1.11E-04	6.64E-08	7.58E-02	2.38E-03					
Michigan	Leelanau County	26089	R	3.00E-04	1.18E-01	1.67E-02	1.42E-05	1.03E-10	7.03E-02	3.02E-04					
Michigan	Lenawee County	26091	U	3.00E-04	1.23E-01	1.74E-02	4.83E-05	1.35E-07	7.49E-02	1.16E-03					
Michigan	Livingston County	26093	U	3.00E-04	1.35E-01	2.79E-02	6.50E-05	1.23E-07	9.77E-02	1.39E-03					
Michigan	Luce County	26095	R	3.00E-04	1.07E-01	6.45E-03	1.96E-05	0.00E+00	6.83E-02	4.22E-04					
Michigan	Mackinac County	26097	R	3.00E-04	1.07E-01	5.52E-03	1.55E-05	0.00E+00	6.79E-02	3.34E-04					
Michigan	Macomb County	26099	U	3.00E-04	1.98E-01	1.12E-01	2.77E-04	5.16E-04	1.27E-01	6.11E-03					
Michigan	Manistee County	26101	R	3.00E-04	1.09E-01	1.33E-02	3.18E-05	5.03E-08	6.89E-02	6.80E-04					
Michigan	Marquette County	26103	R	3.00E-04	1.21E-01	4.34E-02	1.57E-05	4.31E-08	7.16E-02	4.60E-04					
Michigan	Mason County	26105	R	3.00E-04	1.10E-01	1.11E-02	3.36E-05	2.09E-09	6.93E-02	7.22E-04					
Michigan	Mecosta County	26107	R	3.00E-04	1.11E-01	1.92E-02	2.65E-05	2.21E-08	6.95E-02	5.67E-04					
Michigan	Menominee County	26109	R	3.00E-04	1.27E-01	1.39E-02	1.20E-05	7.67E-08	1.00E-01	2.19E-04					
Michigan	Midland County	26111	U	3.00E-04	1.30E-01	5.76E-02	6.72E-05	1.55E-06	7.48E-02	4.84E-03					
Michigan	Missaukee County	26113	R	3.00E-04	1.10E-01	1.32E-02	2.16E-05	5.32E-11	7.23E-02	4.64E-04					
Michigan	Monroe County	26115	U	3.00E-04	1.51E-01	4.22E-02	8.15E-05	1.73E-04	8.87E-02	1.82E-03					
Michigan	Montcalm County	26117	R	3.00E-04	1.13E-01	9.13E-03	3.72E-05	2.70E-08	7.15E-02	7.92E-04					
Michigan	Montmorency County	26119	R	3.00E-04	1.08E-01	7.71E-03	2.75E-05	4.64E-10	6.84E-02	5.87E-04					
Michigan	Muskegon County	26121	U	3.00E-04	1.37E-01	3.30E-02	6.90E-05	3.63E-07	1.32E-01	1.37E-03					
Michigan	Newaygo County	26123	R	3.00E-04	1.14E-01	2.00E-02	3.02E-05	8.18E-08	7.23E-02	6.15E-04					
Michigan	Oakland County	26125	U	3.00E-04	2.25E-01	9.74E-02	2.93E-04	2.82E-04	1.28E-01	6.45E-03					
Michigan	Oceana County	26127	R	3.00E-04	1.11E-01	1.36E-02	5.11E-05	1.03E-08	7.10E-02	1.10E-03					
Michigan	Ogemaw County	26129	R	3.00E-04	1.08E-01	1.05E-02	1.88E-05	3.98E-10	6.82E-02	4.02E-04					
Michigan	Ontonagon County	26131	R	3.00E-04	1.07E-01	2.36E-03	6.91E-06	0.00E+00	6.71E-02	1.49E-04					
Michigan	Osceola County	26133	R	3.00E-04	1.10E-01	1.43E-02	2.86E-05	1.66E-09	6.94E-02	6.10E-04					
Michigan	Oscoda County	26135	R	3.00E-04	1.07E-01	1.23E-02	3.17E-05	9.48E-10	6.86E-02	6.83E-04					
Michigan	Otsego County	26137	R	3.00E-04	1.20E-01	3.55E-02	3.43E-05	1.81E-08	7.30E-02	7.66E-04					
Michigan	Ottawa County	26139	U	3.00E-04	1.43E-01	3.71E-02	6.50E-05	3.31E-07	9.44E-02	1.32E-03					
Michigan	Presque Isle County	26141	R	3.00E-04	1.08E-01	8.38E-03	1.83E-05	1.18E-09	6.83E-02	3.94E-04					
Michigan	Roscommon County	26143	R	3.00E-04	1.11E-01	1.83E-02	3.71E-05	1.17E-09	6.93E-02	8.01E-04					
Michigan	Saginaw County	26145	U	3.00E-04	1.59E-01	5.21E-02	1.11E-04	1.93E-07	8.53E-02	2.95E-03					
Michigan	St. Clair County	26147	U	3.00E-04	1.22E-01	2.36E-02	3.28E-05	1.44E-07	7.83E-02	1.01E-03					
Michigan	St. Joseph County	26149	R	3.00E-04	1.32E-01	3.21E-02	4.13E-05	1.70E-08	7.76E-02	8.85E-04					
Michigan	Sanilac County	26151	R	3.00E-04	1.09E-01	4.20E-03	2.76E-05	8.94E-09	6.90E-02	6.12E-04					
Michigan	Schoolcraft County	26153	R	3.00E-04	1.09E-01	5.96E-03	2.66E-05	0.00E+00	6.89E-02	5.70E-04					
Michigan	Shiawassee County	26155	R	3.00E-04	1.24E-01	2.50E-02	8.33E-05	9.92E-09	1.71E-01	1.78E-03					
Michigan	Tuscola County	26157	R	3.00E-04	1.15E-01	1.26E-02	6.17E-05	1.42E-08	7.12E-02	1.32E-03					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan												
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
Michigan	Van Buren County	26159	U	2.96E-04	1.62E-02	1.26E-02	1.86E-01	2.66E-02	5.21E-04	5.07E-06	7.51E-01	1.23E-06	4.45E-06	6.42E-01	6.81E-02	4.31E-04
Michigan	Washtenaw County	26161	U	6.99E-04	6.15E-02	5.90E-02	6.07E-01	8.65E-02	1.26E-03	4.88E-05	1.51E+00	1.07E-05	9.44E-05	6.40E-01	6.92E-02	1.04E-03
Michigan	Wayne County	26163	U	2.03E-03	1.08E-01	9.44E-02	1.05E+00	1.42E-01	3.63E-03	2.08E-04	2.28E+00	1.73E-05	1.67E-04	6.40E-01	7.11E-02	2.72E-03
Michigan	Wexford County	26165	R	1.39E-04	1.79E-02	1.98E-02	9.43E-02	3.17E-02	2.44E-04	1.47E-05	6.22E-01	2.46E-06	6.17E-06	6.42E-01	6.81E-02	1.04E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan												
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
Michigan	Van Buren County	26159	U	0.00E+00	8.10E-01	6.08E-03	5.28E-02	1.82E-04	3.89E-01	7.50E-05	2.32E-09	1.55E-04	5.69E-05	1.22E-03	2.28E-01	2.68E-04
Michigan	Washtenaw County	26161	U	1.32E-03	1.35E+00	6.08E-03	5.26E-02	2.74E-03	8.89E-01	7.50E-05	2.18E-08	3.00E-03	5.05E-04	1.50E-03	2.81E-01	1.19E-03
Michigan	Wayne County	26163	U	4.96E-03	1.57E+00	6.08E-03	5.31E-02	3.93E-03	1.32E+00	7.50E-05	9.13E-08	3.89E-03	2.06E-03	1.72E-03	4.25E-01	4.21E-03
Michigan	Wexford County	26165	R	0.00E+00	3.38E-01	6.08E-03	5.28E-02	6.78E-04	3.52E-01	7.51E-05	7.64E-12	1.48E-04	4.12E-05	1.21E-03	1.66E-01	1.52E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Michigan											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Michigan	Van Buren County	26159	U	3.00E-04	1.20E-01	1.33E-02	3.28E-05	2.28E-08	7.49E-02	7.33E-04					
Michigan	Washtenaw County	26161	U	3.00E-04	1.79E-01	7.11E-02	8.01E-05	5.38E-07	9.48E-02	1.79E-03					
Michigan	Wayne County	26163	U	3.00E-04	2.49E-01	1.64E-01	2.30E-04	1.01E-03	1.26E-01	5.94E-03					
Michigan	Wexford County	26165	R	3.00E-04	1.31E-01	5.90E-02	1.52E-05	1.47E-10	9.62E-02	3.26E-04					