

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for North Dakota

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 nation less certain. 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 North Dakota												
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
North Dakota	State Total	38000	-	7.25E-06	4.07E-03	8.28E-04	2.27E-02	5.66E-03	1.36E-05	2.12E-06	4.57E-01	2.83E-07	8.82E-07	6.40E-01	6.78E-02	4.37E-06
North Dakota	State Urban Counties	38000	U	1.12E-05	1.75E-02	1.47E-02	5.25E-02	1.33E-02	2.24E-05	1.11E-05	5.83E-01	2.29E-06	5.43E-06	6.40E-01	6.79E-02	2.37E-05
North Dakota	State Rural Counties	38000	R	3.97E-06	1.36E-03	2.85E-04	1.15E-02	2.28E-03	7.63E-06	1.36E-07	4.26E-01	3.14E-08	1.91E-07	6.40E-01	6.78E-02	6.88E-07
North Dakota	Adams County	38001	R	2.65E-06	1.27E-03	1.09E-03	9.75E-03	8.57E-04	4.82E-06	4.45E-07	4.27E-01	1.40E-07	2.90E-07	6.46E-01	6.77E-02	1.44E-06
North Dakota	Barnes County	38003	U	2.86E-06	4.28E-03	1.30E-03	1.68E-02	5.51E-03	5.73E-06	6.54E-07	4.49E-01	1.06E-07	5.11E-07	6.43E-01	6.78E-02	2.16E-06
North Dakota	Benson County	38005	R	3.66E-07	7.64E-04	2.20E-04	1.02E-02	1.29E-03	1.11E-06	6.73E-08	4.24E-01	1.89E-08	5.31E-08	6.34E-01	6.79E-02	5.70E-07
North Dakota	Billings County	38007	R	1.25E-06	5.36E-03	1.11E-04	9.97E-03	9.73E-03	2.30E-06	3.37E-08	4.30E-01	1.00E-08	3.69E-08	6.36E-01	6.78E-02	2.38E-07
North Dakota	Bottineau County	38009	R	1.38E-05	1.52E-02	4.37E-04	2.81E-02	2.38E-02	2.42E-05	1.59E-07	4.78E-01	4.91E-08	1.27E-07	6.42E-01	6.79E-02	7.73E-07
North Dakota	Bowman County	38011	R	7.52E-07	1.85E-03	1.50E-03	1.20E-02	1.63E-03	1.51E-06	5.78E-07	4.52E-01	1.74E-07	3.36E-07	6.38E-01	6.78E-02	2.10E-06
North Dakota	Burke County	38013	R	5.67E-06	4.33E-04	1.47E-04	6.82E-03	6.38E-04	1.01E-05	7.00E-08	4.14E-01	1.59E-08	1.04E-07	6.39E-01	6.77E-02	4.44E-07
North Dakota	Burleigh County	38015	U	1.13E-05	3.45E-02	2.85E-02	9.12E-02	2.62E-02	2.25E-05	4.06E-05	7.60E-01	5.68E-06	5.67E-05	6.42E-01	6.78E-02	2.45E-04
North Dakota	Cass County	38017	U	3.13E-05	3.00E-02	3.51E-02	1.13E-01	2.01E-02	8.03E-05	3.55E-05	7.34E-01	5.33E-06	1.03E-05	6.41E-01	6.79E-02	8.48E-05
North Dakota	Cavalier County	38019	R	5.72E-06	1.02E-02	3.44E-04	2.43E-02	1.83E-02	1.02E-05	6.84E-07	4.53E-01	6.53E-08	2.21E-07	6.44E-01	6.78E-02	9.66E-07
North Dakota	Dickey County	38021	R	1.61E-05	9.68E-04	5.57E-04	1.39E-02	1.80E-03	2.81E-05	2.97E-07	4.28E-01	6.08E-08	2.21E-07	6.47E-01	6.78E-02	1.24E-06
North Dakota	Divide County	38023	R	1.75E-07	6.64E-04	2.37E-04	7.31E-03	6.99E-04	5.51E-07	7.92E-08	4.18E-01	2.35E-08	1.10E-07	6.39E-01	6.78E-02	4.27E-07
North Dakota	Dunn County	38025	R	3.98E-07	4.23E-03	1.36E-04	1.20E-02	7.21E-03	7.66E-07	4.47E-08	4.30E-01	1.23E-08	2.73E-08	6.47E-01	6.76E-02	2.84E-07
North Dakota	Eddy County	38027	R	1.30E-06	2.49E-03	2.26E-03	1.62E-02	2.47E-03	2.62E-06	7.92E-07	4.44E-01	2.41E-07	5.12E-07	6.44E-01	6.76E-02	2.62E-06
North Dakota	Emmons County	38029	R	6.74E-06	6.82E-04	1.94E-04	1.48E-02	1.43E-03	1.21E-05	6.05E-08	4.18E-01	1.72E-08	1.90E-07	6.39E-01	6.76E-02	5.11E-07
North Dakota	Foster County	38031	R	8.63E-07	2.63E-03	2.46E-03	1.67E-02	1.74E-03	2.01E-06	1.11E-06	4.49E-01	3.08E-07	6.70E-07	6.44E-01	6.77E-02	3.14E-06
North Dakota	Golden Valley County	38033	R	7.80E-10	4.30E-04	1.19E-04	3.30E-03	3.15E-04	1.64E-07	3.94E-08	4.09E-01	1.16E-08	3.64E-08	6.32E-01	6.80E-02	2.44E-07
North Dakota	Grand Forks County	38035	U	5.93E-05	2.99E-02	3.98E-02	1.04E-01	1.69E-02	1.23E-04	1.59E-05	6.80E-01	3.79E-06	8.82E-06	6.40E-01	6.79E-02	8.80E-05
North Dakota	Grant County	38037	R	2.15E-06	4.26E-04	1.47E-04	4.01E-03	3.71E-04	3.88E-06	4.80E-08	4.14E-01	1.35E-08	4.51E-08	6.42E-01	6.78E-02	3.13E-07
North Dakota	Griggs County	38039	R	3.01E-05	1.91E-03	3.44E-04	1.13E-02	2.54E-03	5.24E-05	1.47E-07	4.21E-01	4.06E-08	2.20E-07	6.45E-01	6.76E-02	7.49E-07
North Dakota	Hettinger County	38041	R	1.09E-05	3.02E-04	1.19E-04	3.69E-03	3.49E-04	1.89E-05	3.76E-08	4.12E-01	1.07E-08	4.71E-08	6.41E-01	6.77E-02	2.50E-07
North Dakota	Kidder County	38043	R	1.58E-06	1.40E-03	1.22E-04	9.21E-03	2.52E-03	3.31E-06	4.96E-08	4.19E-01	1.18E-08	2.47E-07	6.45E-01	6.76E-02	5.13E-07
North Dakota	LaMoure County	38045	R	2.18E-05	6.21E-04	2.52E-04	8.85E-03	9.25E-04	3.78E-05	7.54E-08	4.17E-01	2.10E-08	8.59E-08	6.46E-01	6.77E-02	5.54E-07
North Dakota	Logan County	38047	R	1.80E-06	4.56E-04	1.35E-04	6.54E-03	6.93E-04	3.30E-06	4.46E-08	4.14E-01	1.30E-08	7.00E-08	6.39E-01	6.75E-02	3.02E-07
North Dakota	McHenry County	38049	R	2.02E-06	1.31E-03	3.01E-04	1.15E-02	2.29E-03	3.88E-06	1.23E-07	4.24E-01	2.75E-08	1.88E-07	6.35E-01	6.80E-02	6.54E-07
North Dakota	McIntosh County	38051	R	2.65E-06	5.85E-04	2.22E-04	8.49E-03	8.35E-04	4.87E-06	8.27E-08	4.17E-01	2.26E-08	2.05E-07	6.41E-01	6.78E-02	4.79E-07
North Dakota	McKenzie County	38053	R	3.23E-06	1.02E-02	4.96E-04	2.67E-02	1.78E-02	5.81E-06	4.86E-07	4.74E-01	5.49E-08	1.55E-07	6.39E-01	6.78E-02	9.38E-07
North Dakota	McLean County	38055	R	8.56E-06	1.07E-03	2.91E-04	9.46E-03	1.57E-03	1.50E-05	2.35E-05	4.29E-01	3.09E-08	1.19E-07	6.44E-01	6.77E-02	6.24E-07

1996 Modeled Exposure Concentrations for North Dakota

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 North Dakota													
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	
North Dakota	State Total	38000	-	0.00E+00	1.94E-01	6.08E-03	5.25E-02	2.40E-05	2.14E-01	7.52E-05	0.00E+00	3.62E-05	3.63E-05	1.19E-03	1.24E-01	9.92E-06	
North Dakota	State Urban Counties	38000	U	0.00E+00	2.81E-01	6.08E-03	5.25E-02	3.13E-04	2.69E-01	7.52E-05	0.00E+00	2.32E-04	2.82E-04	1.20E-03	1.48E-01	1.07E-04	
North Dakota	State Rural Counties	38000	R	0.00E+00	1.37E-01	6.08E-03	5.25E-02	4.63E-06	1.93E-01	7.52E-05	0.00E+00	5.04E-06	4.55E-06	1.19E-03	1.21E-01	1.45E-06	
North Dakota	Adams County	38001	R	0.00E+00	1.28E-01	6.08E-03	5.21E-02	1.01E-04	1.88E-01	7.51E-05	0.00E+00	2.05E-05	1.68E-05	1.19E-03	1.23E-01	5.62E-06	
North Dakota	Barnes County	38003	U	0.00E+00	2.11E-01	6.07E-03	5.24E-02	1.68E-05	2.12E-01	7.54E-05	0.00E+00	3.08E-05	6.10E-05	1.19E-03	1.24E-01	5.40E-06	
North Dakota	Benson County	38005	R	0.00E+00	1.41E-01	6.08E-03	5.28E-02	2.23E-06	1.90E-01	7.52E-05	2.80E-10	9.17E-06	2.75E-06	1.18E-03	1.21E-01	1.04E-06	
North Dakota	Billings County	38007	R	0.00E+00	6.17E-02	6.09E-03	5.24E-02	2.19E-06	2.16E-01	7.52E-05	0.00E+00	5.25E-06	1.57E-06	1.19E-03	1.21E-01	3.71E-07	
North Dakota	Bottineau County	38009	R	0.00E+00	1.17E-01	6.08E-03	5.27E-02	1.45E-06	2.98E-01	7.53E-05	1.44E-10	4.31E-06	5.44E-06	1.19E-03	1.22E-01	1.64E-06	
North Dakota	Bowman County	38011	R	0.00E+00	1.36E-01	6.08E-03	5.28E-02	1.29E-07	2.00E-01	7.53E-05	0.00E+00	2.43E-05	2.27E-05	1.19E-03	1.23E-01	6.44E-06	
North Dakota	Burke County	38013	R	0.00E+00	8.43E-02	6.08E-03	5.25E-02	2.62E-06	1.82E-01	7.51E-05	0.00E+00	1.34E-06	2.59E-06	1.19E-03	1.21E-01	8.31E-07	
North Dakota	Burleigh County	38015	U	0.00E+00	2.76E-01	6.08E-03	5.25E-02	1.37E-03	3.35E-01	7.51E-05	0.00E+00	8.58E-04	7.70E-04	1.22E-03	1.71E-01	9.08E-04	
North Dakota	Cass County	38017	U	0.00E+00	4.25E-01	6.08E-03	5.23E-02	9.12E-04	3.13E-01	7.51E-05	1.15E-09	3.67E-04	5.03E-04	1.22E-03	1.99E-01	2.58E-04	
North Dakota	Cavalier County	38019	R	0.00E+00	1.84E-01	6.08E-03	5.22E-02	1.31E-05	2.58E-01	7.54E-05	6.53E-12	4.16E-06	5.61E-06	1.19E-03	1.21E-01	1.85E-06	
North Dakota	Dickey County	38021	R	0.00E+00	1.86E-01	6.08E-03	5.24E-02	1.77E-05	1.93E-01	7.52E-05	0.00E+00	5.49E-06	2.17E-05	1.19E-03	1.21E-01	2.69E-06	
North Dakota	Divide County	38023	R	0.00E+00	8.55E-02	6.08E-03	5.26E-02	5.30E-06	1.84E-01	7.52E-05	0.00E+00	3.65E-06	3.85E-06	1.19E-03	1.21E-01	7.80E-07	
North Dakota	Dunn County	38025	R	0.00E+00	7.91E-02	6.08E-03	5.19E-02	3.82E-07	2.12E-01	7.51E-05	0.00E+00	1.19E-06	2.27E-06	1.19E-03	1.20E-01	6.84E-07	
North Dakota	Eddy County	38027	R	0.00E+00	2.53E-01	6.08E-03	5.24E-02	2.87E-06	1.98E-01	7.52E-05	9.11E-12	5.18E-05	3.37E-05	1.19E-03	1.24E-01	9.55E-06	
North Dakota	Emmons County	38029	R	0.00E+00	1.25E-01	6.08E-03	5.26E-02	3.19E-06	1.90E-01	7.52E-05	0.00E+00	3.34E-06	3.20E-06	1.19E-03	1.22E-01	1.09E-06	
North Dakota	Foster County	38031	R	0.00E+00	2.71E-01	6.08E-03	5.24E-02	1.54E-04	1.98E-01	7.52E-05	0.00E+00	3.40E-05	3.71E-05	1.19E-03	1.27E-01	2.18E-05	
North Dakota	Golden Valley County	38033	R	0.00E+00	6.30E-02	6.07E-03	5.31E-02	4.57E-06	1.77E-01	7.52E-05	0.00E+00	1.48E-06	1.76E-06	1.18E-03	1.20E-01	4.45E-07	
North Dakota	Grand Forks County	38035	U	0.00E+00	4.04E-01	6.08E-03	5.25E-02	4.60E-04	3.13E-01	7.51E-05	2.21E-08	2.32E-04	5.32E-04	1.23E-03	2.10E-01	1.40E-04	
North Dakota	Grant County	38037	R	0.00E+00	9.86E-02	6.08E-03	5.25E-02	2.86E-06	1.80E-01	7.51E-05	0.00E+00	2.00E-06	2.46E-06	1.19E-03	1.21E-01	4.87E-07	
North Dakota	Griggs County	38039	R	0.00E+00	1.94E-01	6.07E-03	5.23E-02	2.27E-05	1.95E-01	7.49E-05	0.00E+00	6.57E-06	5.70E-06	1.18E-03	1.21E-01	2.41E-06	
North Dakota	Hettinger County	38041	R	0.00E+00	8.36E-02	6.08E-03	5.22E-02	7.09E-07	1.80E-01	7.50E-05	0.00E+00	4.34E-06	1.92E-06	1.19E-03	1.20E-01	4.28E-07	
North Dakota	Kidder County	38043	R	0.00E+00	1.31E-01	6.08E-03	5.22E-02	1.60E-06	1.91E-01	7.49E-05	0.00E+00	3.63E-06	2.30E-06	1.19E-03	1.20E-01	6.07E-07	
North Dakota	LaMoure County	38045	R	0.00E+00	1.71E-01	6.08E-03	5.25E-02	1.82E-06	1.85E-01	7.50E-05	0.00E+00	2.43E-06	3.83E-06	1.19E-03	1.21E-01	8.92E-07	
North Dakota	Logan County	38047	R	0.00E+00	1.29E-01	6.06E-03	5.26E-02	2.83E-06	1.82E-01	7.49E-05	0.00E+00	2.16E-06	2.24E-06	1.18E-03	1.20E-01	4.85E-07	
North Dakota	McHenry County	38049	R	0.00E+00	1.15E-01	6.08E-03	5.30E-02	3.81E-06	1.92E-01	7.52E-05	0.00E+00	4.94E-06	4.17E-06	1.19E-03	1.21E-01	1.09E-06	
North Dakota	McIntosh County	38051	R	0.00E+00	1.38E-01	6.09E-03	5.24E-02	1.82E-05	1.84E-01	7.52E-05	0.00E+00	4.39E-06	3.69E-06	1.19E-03	1.21E-01	1.01E-06	
North Dakota	McKenzie County	38053	R	0.00E+00	1.02E-01	6.09E-03	5.27E-02	8.15E-06	2.95E-01	7.52E-05	0.00E+00	1.21E-05	5.06E-06	1.19E-03	1.22E-01	2.09E-06	
North Dakota	McLean County	38055	R	0.00E+00	1.13E-01	6.08E-03	5.26E-02	6.65E-06	1.89E-01	7.51E-05	0.00E+00	2.60E-06	4.82E-06	1.19E-03	1.22E-01	1.74E-06	

1996 Modeled Exposure Concentrations for North Dakota

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 North Dakota											
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					
North Dakota	State Total	38000	-	3.00E-04	1.07E-01	2.47E-03	8.39E-07	0.00E+00	6.81E-02	1.73E-05					
North Dakota	State Urban Counties	38000	U	3.00E-04	1.26E-01	1.64E-02	1.32E-06	0.00E+00	7.20E-02	2.64E-05					
North Dakota	State Rural Counties	38000	R	3.00E-04	1.06E-01	7.45E-04	4.82E-07	0.00E+00	6.75E-02	9.86E-06					
North Dakota	Adams County	38001	R	3.00E-04	1.09E-01	9.89E-04	2.97E-07	0.00E+00	6.77E-02	6.21E-06					
North Dakota	Barnes County	38003	U	3.00E-04	1.08E-01	1.48E-03	3.37E-07	0.00E+00	6.89E-02	6.70E-06					
North Dakota	Benson County	38005	R	3.00E-04	1.05E-01	2.66E-04	6.36E-08	1.03E-09	6.76E-02	8.97E-07					
North Dakota	Billings County	38007	R	3.01E-04	1.05E-01	1.65E-03	1.40E-07	0.00E+00	6.73E-02	2.92E-06					
North Dakota	Bottineau County	38009	R	3.00E-04	1.06E-01	4.55E-03	1.52E-06	5.85E-10	6.76E-02	3.25E-05					
North Dakota	Bowman County	38011	R	3.00E-04	1.06E-01	2.64E-03	8.83E-08	0.00E+00	6.79E-02	1.77E-06					
North Dakota	Burke County	38013	R	3.00E-04	1.06E-01	1.64E-04	6.26E-07	0.00E+00	6.74E-02	1.33E-05					
North Dakota	Burleigh County	38015	U	3.00E-04	1.45E-01	2.93E-02	1.32E-06	0.00E+00	7.79E-02	2.65E-05					
North Dakota	Cass County	38017	U	3.00E-04	1.70E-01	3.24E-02	8.41E-06	5.03E-09	8.38E-02	1.46E-04					
North Dakota	Cavalier County	38019	R	3.00E-04	1.06E-01	3.15E-03	6.35E-07	1.32E-10	6.75E-02	1.34E-05					
North Dakota	Dickey County	38021	R	3.00E-04	1.07E-01	7.98E-04	1.76E-06	0.00E+00	6.78E-02	3.77E-05					
North Dakota	Divide County	38023	R	3.00E-04	1.06E-01	2.27E-04	2.68E-08	0.00E+00	6.75E-02	4.11E-07					
North Dakota	Dunn County	38025	R	3.00E-04	1.06E-01	1.28E-03	4.58E-08	0.00E+00	6.70E-02	9.39E-07					
North Dakota	Eddy County	38027	R	3.00E-04	1.06E-01	2.16E-03	1.54E-07	9.75E-11	6.78E-02	3.04E-06					
North Dakota	Emmons County	38029	R	3.00E-04	1.06E-01	2.57E-04	7.46E-07	0.00E+00	6.76E-02	1.58E-05					
North Dakota	Foster County	38031	R	3.00E-04	1.12E-01	2.09E-03	1.10E-07	0.00E+00	6.85E-02	2.03E-06					
North Dakota	Golden Valley County	38033	R	3.00E-04	1.05E-01	9.95E-05	5.10E-09	0.00E+00	6.78E-02	2.85E-09					
North Dakota	Grand Forks County	38035	U	3.00E-04	1.39E-01	3.73E-02	6.87E-06	6.17E-08	7.72E-02	1.39E-04					
North Dakota	Grant County	38037	R	3.00E-04	1.06E-01	1.58E-04	2.40E-07	0.00E+00	6.74E-02	5.03E-06					
North Dakota	Griggs County	38039	R	2.99E-04	1.06E-01	5.42E-04	3.29E-06	0.00E+00	6.73E-02	7.09E-05					
North Dakota	Hettinger County	38041	R	3.00E-04	1.05E-01	1.69E-04	1.19E-06	0.00E+00	6.73E-02	2.56E-05					
North Dakota	Kidder County	38043	R	3.00E-04	1.06E-01	4.02E-04	1.91E-07	0.00E+00	6.72E-02	3.73E-06					
North Dakota	LaMoure County	38045	R	3.00E-04	1.06E-01	2.89E-04	2.38E-06	0.00E+00	6.75E-02	5.11E-05					
North Dakota	Logan County	38047	R	2.99E-04	1.05E-01	1.69E-04	2.02E-07	0.00E+00	6.72E-02	4.22E-06					
North Dakota	McHenry County	38049	R	3.00E-04	1.06E-01	7.89E-04	2.32E-07	0.00E+00	6.78E-02	4.76E-06					
North Dakota	McIntosh County	38051	R	3.00E-04	1.05E-01	2.25E-04	2.98E-07	0.00E+00	6.74E-02	6.22E-06					
North Dakota	McKenzie County	38053	R	3.00E-04	1.06E-01	4.21E-03	3.59E-07	0.00E+00	6.76E-02	7.56E-06					
North Dakota	McLean County	38055	R	3.00E-04	1.06E-01	1.16E-03	9.39E-07	0.00E+00	6.76E-02	2.01E-05					

				Estimated Annual Median Exposure Concentrations (ug/m3) for North Dakota												
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
North Dakota	Mercer County	38057	U	2.94E-06	1.79E-03	1.69E-03	1.09E-02	1.83E-03	5.63E-06	1.20E-04	4.70E-01	1.67E-07	3.32E-07	6.37E-01	6.77E-02	1.61E-06
North Dakota	Morton County	38059	U	5.93E-06	1.51E-02	9.07E-03	5.25E-02	1.36E-02	1.18E-05	6.20E-05	5.75E-01	4.56E-06	1.00E-04	6.40E-01	6.79E-02	4.73E-04
North Dakota	Mountrail County	38061	R	3.76E-06	9.82E-04	1.74E-04	8.02E-03	1.42E-03	6.75E-06	9.11E-08	4.22E-01	1.78E-08	1.12E-07	6.36E-01	6.78E-02	4.49E-07
North Dakota	Nelson County	38063	R	5.34E-06	8.95E-04	2.13E-04	8.25E-03	1.71E-03	9.51E-06	6.81E-08	4.22E-01	1.89E-08	1.73E-07	6.39E-01	6.77E-02	5.56E-07
North Dakota	Oliver County	38065	R	6.14E-07	1.10E-03	2.24E-04	8.52E-03	1.87E-03	1.29E-06	2.86E-05	4.21E-01	1.63E-07	4.17E-06	6.37E-01	6.78E-02	1.83E-05
North Dakota	Pembina County	38067	R	2.68E-06	6.23E-03	4.52E-04	2.22E-02	1.58E-02	5.96E-06	7.63E-06	4.57E-01	4.25E-07	1.14E-06	6.45E-01	6.75E-02	5.13E-06
North Dakota	Pierce County	38069	U	3.19E-06	1.85E-03	3.54E-04	1.33E-02	3.34E-03	6.07E-06	1.38E-07	4.26E-01	3.91E-08	2.16E-07	6.34E-01	6.78E-02	8.20E-07
North Dakota	Ramsey County	38071	U	3.31E-06	1.92E-02	7.15E-03	4.51E-02	2.13E-02	6.93E-06	2.61E-06	5.44E-01	8.17E-07	1.41E-06	6.41E-01	6.80E-02	5.58E-06
North Dakota	Ransom County	38073	R	2.89E-06	4.15E-03	3.32E-04	1.86E-02	7.33E-03	5.52E-06	1.47E-06	4.40E-01	3.47E-08	5.60E-07	6.39E-01	6.79E-02	2.84E-06
North Dakota	Renville County	38075	R	1.03E-05	9.90E-04	3.92E-04	1.07E-02	1.11E-03	1.84E-05	1.99E-07	4.23E-01	4.66E-08	3.48E-07	6.42E-01	6.77E-02	1.01E-06
North Dakota	Richland County	38077	U	3.42E-06	1.81E-03	7.83E-04	2.15E-02	4.05E-03	7.67E-06	1.08E-05	4.34E-01	6.18E-07	1.64E-06	6.40E-01	6.79E-02	3.66E-05
North Dakota	Rolette County	38079	R	1.46E-05	1.55E-02	9.20E-04	5.15E-02	2.85E-02	2.61E-05	3.33E-07	4.91E-01	9.44E-08	2.89E-07	6.38E-01	6.79E-02	1.56E-06
North Dakota	Sargent County	38081	R	7.14E-06	2.56E-03	3.78E-04	1.52E-02	4.49E-03	1.28E-05	5.36E-07	4.25E-01	4.93E-08	2.47E-07	6.40E-01	6.76E-02	1.54E-06
North Dakota	Sheridan County	38083	R	1.06E-06	3.60E-04	9.70E-05	5.06E-03	5.04E-04	1.96E-06	2.91E-08	4.14E-01	8.56E-09	1.99E-08	6.35E-01	6.76E-02	2.12E-07
North Dakota	Sioux County	38085	R	9.13E-07	5.50E-04	1.59E-04	1.39E-02	8.66E-04	1.79E-06	4.58E-08	4.10E-01	1.36E-08	3.90E-08	6.44E-01	6.76E-02	3.33E-07
North Dakota	Slope County	38087	R	3.12E-07	4.82E-04	7.69E-05	5.45E-03	9.19E-04	6.43E-07	2.66E-08	4.12E-01	7.71E-09	4.35E-08	6.48E-01	6.75E-02	1.64E-07
North Dakota	Stark County	38089	U	7.98E-06	6.59E-03	9.04E-03	1.99E-02	7.06E-03	1.47E-05	2.67E-06	4.74E-01	8.27E-07	1.39E-06	6.37E-01	6.80E-02	6.74E-06
North Dakota	Steele County	38091	R	2.28E-05	1.31E-03	2.04E-04	1.02E-02	2.31E-03	3.93E-05	7.00E-08	4.26E-01	1.94E-08	6.67E-08	6.44E-01	6.78E-02	4.80E-07
North Dakota	Stutsman County	38093	U	1.35E-06	5.37E-03	5.40E-03	1.69E-02	3.94E-03	3.25E-06	2.50E-06	4.60E-01	7.33E-07	1.35E-06	6.40E-01	6.79E-02	4.37E-06
North Dakota	Towner County	38095	R	1.83E-06	7.44E-04	2.54E-04	9.83E-03	1.87E-03	3.51E-06	9.22E-08	4.20E-01	2.62E-08	1.11E-07	6.45E-01	6.79E-02	5.12E-07
North Dakota	Traill County	38097	R	1.16E-05	1.91E-02	2.70E-03	4.89E-02	2.14E-02	2.15E-05	2.99E-06	5.10E-01	4.59E-07	1.19E-06	6.42E-01	6.77E-02	6.37E-06
North Dakota	Walsh County	38099	R	1.15E-05	1.08E-02	2.64E-03	3.96E-02	1.28E-02	2.34E-05	2.83E-06	5.10E-01	4.11E-07	9.97E-07	6.38E-01	6.78E-02	6.34E-06
North Dakota	Ward County	38101	U	4.15E-05	1.42E-02	1.85E-02	6.18E-02	1.12E-02	7.59E-05	7.24E-06	5.64E-01	2.15E-06	5.31E-06	6.39E-01	6.79E-02	1.67E-05
North Dakota	Wells County	38103	R	7.55E-07	5.60E-04	1.89E-04	6.47E-03	6.88E-04	1.57E-06	6.16E-08	4.17E-01	1.77E-08	8.16E-08	6.40E-01	6.77E-02	4.06E-07
North Dakota	Williams County	38105	U	7.36E-06	4.10E-02	1.10E-02	7.14E-02	4.54E-02	1.40E-05	3.66E-06	6.34E-01	1.13E-06	1.85E-06	6.39E-01	6.79E-02	8.17E-06

				Estimated Annual Median Exposure Concentrations (ug/m3) for North Dakota												
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
North Dakota	Mercer County	38057	U	0.00E+00	1.13E-01	6.08E-03	5.27E-02	2.53E-05	1.90E-01	7.50E-05	0.00E+00	9.11E-06	2.41E-05	1.20E-03	1.23E-01	6.40E-06
North Dakota	Morton County	38059	U	0.00E+00	1.91E-01	6.09E-03	5.27E-02	7.27E-05	2.61E-01	7.52E-05	0.00E+00	5.39E-04	8.20E-04	1.22E-03	1.36E-01	1.52E-03
North Dakota	Mountrail County	38061	R	0.00E+00	8.87E-02	6.07E-03	5.22E-02	2.81E-06	1.87E-01	7.51E-05	0.00E+00	2.40E-06	2.20E-06	1.18E-03	1.21E-01	7.73E-07
North Dakota	Nelson County	38063	R	0.00E+00	1.72E-01	6.07E-03	5.23E-02	3.49E-06	1.89E-01	7.50E-05	2.94E-12	3.27E-06	3.59E-06	1.19E-03	1.20E-01	6.50E-07
North Dakota	Oliver County	38065	R	0.00E+00	1.04E-01	6.08E-03	5.29E-02	1.45E-06	1.86E-01	7.51E-05	0.00E+00	1.37E-05	2.96E-05	1.20E-03	1.21E-01	5.90E-05
North Dakota	Pembina County	38067	R	0.00E+00	1.50E-01	6.07E-03	5.23E-02	8.60E-06	2.38E-01	7.50E-05	1.56E-09	1.16E-05	1.27E-05	1.19E-03	1.22E-01	6.78E-06
North Dakota	Pierce County	38069	U	0.00E+00	1.44E-01	6.07E-03	5.29E-02	2.66E-05	1.93E-01	7.50E-05	4.73E-12	3.32E-06	5.49E-06	1.19E-03	1.20E-01	1.91E-06
North Dakota	Ramsey County	38071	U	0.00E+00	2.72E-01	6.09E-03	5.28E-02	1.03E-04	2.90E-01	7.54E-05	3.41E-09	1.15E-03	8.16E-05	1.19E-03	1.33E-01	2.78E-05
North Dakota	Ransom County	38073	R	0.00E+00	1.89E-01	6.09E-03	5.27E-02	1.06E-05	2.15E-01	7.52E-05	0.00E+00	1.19E-05	1.37E-03	1.19E-03	1.21E-01	2.48E-06
North Dakota	Renville County	38075	R	0.00E+00	1.33E-01	6.08E-03	5.25E-02	9.16E-06	1.88E-01	7.51E-05	1.07E-10	7.96E-06	6.45E-06	1.19E-03	1.22E-01	2.06E-06
North Dakota	Richland County	38077	U	0.00E+00	2.34E-01	6.09E-03	5.27E-02	5.65E-06	2.05E-01	7.54E-05	9.38E-11	1.96E-05	5.08E-04	1.19E-03	1.23E-01	1.39E-05
North Dakota	Rolette County	38079	R	0.00E+00	1.17E-01	6.07E-03	5.27E-02	2.56E-05	3.06E-01	7.51E-05	1.80E-12	5.98E-06	1.42E-05	1.19E-03	1.23E-01	5.03E-06
North Dakota	Sargent County	38081	R	0.00E+00	1.99E-01	6.08E-03	5.23E-02	2.30E-06	1.98E-01	7.51E-05	0.00E+00	4.37E-06	2.54E-03	1.19E-03	1.21E-01	7.38E-06
North Dakota	Sheridan County	38083	R	0.00E+00	1.24E-01	6.07E-03	5.25E-02	4.95E-07	1.78E-01	7.49E-05	0.00E+00	4.56E-07	1.56E-06	1.18E-03	1.21E-01	3.20E-07
North Dakota	Sioux County	38085	R	0.00E+00	8.87E-02	6.08E-03	5.22E-02	2.21E-06	1.86E-01	7.49E-05	0.00E+00	7.11E-07	2.65E-06	1.19E-03	1.20E-01	4.18E-07
North Dakota	Slope County	38087	R	0.00E+00	6.28E-02	6.09E-03	5.23E-02	6.62E-08	1.84E-01	7.50E-05	0.00E+00	9.66E-07	1.37E-06	1.19E-03	1.20E-01	2.55E-07
North Dakota	Stark County	38089	U	0.00E+00	1.47E-01	6.08E-03	5.26E-02	1.86E-04	2.16E-01	7.52E-05	0.00E+00	1.43E-04	1.10E-04	1.19E-03	1.32E-01	2.24E-05
North Dakota	Steele County	38091	R	0.00E+00	2.01E-01	6.08E-03	5.27E-02	3.81E-06	1.94E-01	7.51E-05	7.07E-13	2.84E-06	3.36E-06	1.19E-03	1.21E-01	1.09E-06
North Dakota	Stutsman County	38093	U	0.00E+00	2.63E-01	6.08E-03	5.27E-02	2.90E-04	1.98E-01	7.53E-05	0.00E+00	1.19E-04	6.91E-05	1.19E-03	1.32E-01	4.30E-05
North Dakota	Towner County	38095	R	0.00E+00	1.32E-01	6.10E-03	5.26E-02	1.23E-05	1.89E-01	7.53E-05	7.82E-12	1.05E-05	4.06E-06	1.19E-03	1.21E-01	1.33E-06
North Dakota	Traill County	38097	R	0.00E+00	3.65E-01	6.08E-03	5.24E-02	7.21E-05	3.04E-01	7.53E-05	9.52E-12	3.31E-05	3.26E-05	1.19E-03	1.27E-01	1.51E-05
North Dakota	Walsh County	38099	R	0.00E+00	3.19E-01	6.07E-03	5.26E-02	6.14E-05	2.57E-01	7.53E-05	1.84E-08	3.35E-05	4.37E-05	1.19E-03	1.28E-01	2.13E-05
North Dakota	Ward County	38101	U	0.00E+00	2.95E-01	6.08E-03	5.26E-02	4.14E-04	2.65E-01	7.52E-05	0.00E+00	1.90E-04	2.61E-04	1.21E-03	1.50E-01	6.58E-05
North Dakota	Wells County	38103	R	0.00E+00	1.47E-01	6.07E-03	5.26E-02	1.79E-07	1.82E-01	7.50E-05	0.00E+00	2.12E-06	2.67E-06	1.18E-03	1.20E-01	7.07E-07
North Dakota	Williams County	38105	U	0.00E+00	2.00E-01	6.08E-03	5.27E-02	3.51E-04	4.21E-01	7.54E-05	0.00E+00	4.15E-04	1.45E-04	1.19E-03	1.40E-01	3.68E-05

				Estimated Annual Median Exposure Concentrations (ug/m3) for North Dakota											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
North Dakota	Mercer County	38057	U	3.00E-04	1.06E-01	4.20E-03	3.38E-07	0.00E+00	6.77E-02	6.88E-06					
North Dakota	Morton County	38059	U	3.00E-04	1.18E-01	1.09E-02	6.92E-07	0.00E+00	6.99E-02	1.40E-05					
North Dakota	Mountrail County	38061	R	3.00E-04	1.05E-01	2.80E-04	4.18E-07	0.00E+00	6.73E-02	8.81E-06					
North Dakota	Nelson County	38063	R	3.00E-04	1.06E-01	4.36E-04	5.94E-07	4.77E-11	6.74E-02	1.25E-05					
North Dakota	Oliver County	38065	R	3.00E-04	1.05E-01	9.38E-04	7.41E-08	0.00E+00	6.75E-02	1.44E-06					
North Dakota	Pembina County	38067	R	3.00E-04	1.06E-01	2.58E-03	4.35E-07	6.66E-09	6.71E-02	6.59E-06					
North Dakota	Pierce County	38069	U	3.00E-04	1.05E-01	7.78E-04	3.66E-07	9.23E-11	6.76E-02	7.49E-06					
North Dakota	Ramsey County	38071	U	3.00E-04	1.12E-01	9.04E-03	4.64E-07	9.59E-09	6.94E-02	7.95E-06					
North Dakota	Ransom County	38073	R	3.01E-04	1.07E-01	1.25E-03	3.31E-07	0.00E+00	6.77E-02	6.79E-06					
North Dakota	Renville County	38075	R	3.00E-04	1.06E-01	5.77E-04	1.14E-06	3.73E-10	6.76E-02	2.42E-05					
North Dakota	Richland County	38077	U	3.00E-04	1.06E-01	1.33E-03	4.38E-07	1.19E-09	6.83E-02	8.47E-06					
North Dakota	Rolette County	38079	R	3.00E-04	1.06E-01	5.22E-03	1.62E-06	2.51E-11	6.77E-02	3.44E-05					
North Dakota	Sargent County	38081	R	3.00E-04	1.05E-01	8.27E-04	7.94E-07	0.00E+00	6.72E-02	1.67E-05					
North Dakota	Sheridan County	38083	R	3.00E-04	1.05E-01	1.02E-04	1.20E-07	0.00E+00	6.73E-02	2.49E-06					
North Dakota	Sioux County	38085	R	3.00E-04	1.06E-01	2.22E-04	1.06E-07	0.00E+00	6.72E-02	2.14E-06					
North Dakota	Slope County	38087	R	3.01E-04	1.06E-01	1.91E-04	3.73E-08	0.00E+00	6.72E-02	7.31E-07					
North Dakota	Stark County	38089	U	3.00E-04	1.24E-01	7.98E-03	8.99E-07	0.00E+00	6.88E-02	1.87E-05					
North Dakota	Steele County	38091	R	3.00E-04	1.06E-01	4.02E-04	2.48E-06	9.07E-12	6.75E-02	5.33E-05					
North Dakota	Stutsman County	38093	U	3.00E-04	1.18E-01	5.20E-03	1.75E-07	0.00E+00	7.03E-02	3.18E-06					
North Dakota	Towner County	38095	R	3.01E-04	1.06E-01	3.90E-04	2.11E-07	1.32E-10	6.75E-02	4.31E-06					
North Dakota	Traill County	38097	R	3.00E-04	1.12E-01	5.73E-03	1.31E-06	1.50E-10	6.82E-02	2.73E-05					
North Dakota	Walsh County	38099	R	3.00E-04	1.09E-01	6.53E-03	1.75E-06	4.81E-08	6.86E-02	2.93E-05					
North Dakota	Ward County	38101	U	3.00E-04	1.26E-01	1.63E-02	4.64E-06	0.00E+00	7.16E-02	9.75E-05					
North Dakota	Wells County	38103	R	3.00E-04	1.06E-01	1.94E-04	9.07E-08	0.00E+00	6.76E-02	1.77E-06					
North Dakota	Williams County	38105	U	3.00E-04	1.17E-01	1.70E-02	8.43E-07	0.00E+00	7.11E-02	1.73E-05					