

US EPA ARCHIVE DOCUMENT

1996 Modeled Ambient Concentration for Massachusetts

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 level; for smaller areas, the modeling becomes less certain. In addition, these results represent conditions in 1996 rather than current conditions.

- The modeled estimates presented here are not a direct indicator of risk because they do not factor in the extent to which people are exposed to these pollutants or the widely varying toxic potential of different substances. EPA uses these ambient concentration estimates in combination with exposure modeling and health effects information to estimate risk.
- 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.
- Note that based on the persistence and bioaccumulation potential of lead, mercury, PCBs (polychlorinated biphenyls), hexachlorobenzene, 7-PAH (polycyclic aromatic hydrocarbons), POM (polycyclic organic matter) and cadmium, ingestion rather than inhalation may contribute substantially to exposures of concern, and this assessment does not address pollutant levels that may be ingested from food, water, or soil.

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration

Estimated Annual Average Ambient Concentrations (µg/m ³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Statewide	N/A	N/A	Acetaldehyde	2.16E-01	2.85E-01	5.11E-01	7.91E-01	8.24E-01	1.05E+00	1.27E+00	1.52E+00	7.72E-05	4.67E-02	4.81E-01	2.97E-01	0.00E+00
Massachusetts	Statewide	N/A	N/A	Acrolein	3.72E-02	4.70E-02	7.31E-02	1.13E-01	1.20E-01	1.51E-01	1.89E-01	2.18E-01	5.71E-06	1.60E-02	6.23E-02	4.17E-02	0.00E+00
Massachusetts	Statewide	N/A	N/A	Acrylonitrile	2.12E-03	3.00E-03	4.33E-03	6.12E-03	8.02E-03	7.65E-03	9.74E-03	1.14E-02	6.32E-03	1.70E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Arsenic Compounds	1.09E-05	1.66E-05	3.85E-05	7.04E-05	9.17E-05	1.10E-04	1.70E-04	2.17E-04	9.76E-06	7.34E-05	7.72E-07	7.79E-06	0.00E+00
Massachusetts	Statewide	N/A	N/A	Benzene	7.77E-01	8.87E-01	1.11E+00	1.46E+00	1.58E+00	1.93E+00	2.47E+00	2.72E+00	1.64E-02	4.84E-02	7.64E-01	2.75E-01	4.80E-01
Massachusetts	Statewide	N/A	N/A	Beryllium Compounds	2.62E-06	3.98E-06	8.15E-06	1.46E-05	1.76E-05	2.46E-05	3.50E-05	4.18E-05	4.77E-07	1.71E-05	0.00E+00	6.99E-08	0.00E+00
Massachusetts	Statewide	N/A	N/A	1,3-Butadiene	1.53E-02	2.33E-02	3.60E-02	5.92E-02	7.73E-02	1.05E-01	1.59E-01	1.86E-01	5.92E-09	1.35E-03	5.89E-02	1.71E-02	0.00E+00
Massachusetts	Statewide	N/A	N/A	Cadmium Compounds	1.52E-05	2.23E-05	4.08E-05	7.32E-05	1.54E-04	1.17E-04	2.71E-04	6.38E-04	5.18E-06	1.48E-04	0.00E+00	9.76E-07	0.00E+00
Massachusetts	Statewide	N/A	N/A	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	1.16E-05	6.39E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Statewide	N/A	N/A	Chloroform	8.40E-02	8.43E-02	8.52E-02	8.65E-02	8.75E-02	8.77E-02	8.97E-02	9.19E-02	2.24E-04	4.23E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Statewide	N/A	N/A	Chromium Compounds	2.82E-04	5.94E-04	1.08E-03	1.91E-03	2.54E-03	2.86E-03	4.93E-03	6.81E-03	1.63E-05	2.32E-03	4.89E-05	1.47E-04	0.00E+00
Massachusetts	Statewide	N/A	N/A	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	1,3-Dichloropropene	2.09E-02	3.23E-02	5.98E-02	9.99E-02	1.28E-01	1.78E-01	2.67E-01	3.16E-01	0.00E+00	1.28E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Diesel Particulate Matter	1.22E+00	1.44E+00	1.72E+00	2.13E+00	2.91E+00	2.70E+00	4.68E+00	7.47E+00	0.00E+00	0.00E+00	7.63E-01	2.15E+00	***
Massachusetts	Statewide	N/A	N/A	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	7.71E-03	7.71E-03	3.54E-06	1.55E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Statewide	N/A	N/A	Ethylene Dichloride	6.13E-02	6.14E-02	6.15E-02	6.17E-02	6.20E-02	6.19E-02	6.22E-02	6.24E-02	7.64E-04	2.04E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Statewide	N/A	N/A	Ethylene Oxide	4.38E-04	6.77E-04	1.52E-03	2.76E-03	4.40E-03	4.49E-03	9.59E-03	1.56E-02	9.87E-09	4.40E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Formaldehyde	5.58E-01	6.44E-01	9.07E-01	1.27E+00	1.37E+00	1.63E+00	2.08E+00	2.44E+00	1.85E-03	5.19E-02	5.48E-01	5.15E-01	2.50E-01
Massachusetts	Statewide	N/A	N/A	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.60E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Statewide	N/A	N/A	Hydrazine	4.58E-09	1.96E-08	1.62E-07	3.78E-07	2.70E-06	7.94E-07	2.36E-06	6.45E-06	7.01E-09	2.06E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Lead Compounds	4.92E-04	7.81E-04	1.41E-03	2.45E-03	4.64E-03	5.33E-03	1.06E-02	1.36E-02	1.30E-04	1.72E-03	6.81E-05	2.72E-03	0.00E+00
Massachusetts	Statewide	N/A	N/A	Manganese Compounds	3.16E-04	4.67E-04	8.59E-04	1.50E-03	1.80E-03	2.50E-03	3.59E-03	4.20E-03	1.21E-05	1.62E-03	1.99E-05	1.51E-04	0.00E+00
Massachusetts	Statewide	N/A	N/A	Mercury Compounds	1.62E-03	1.66E-03	1.80E-03	2.05E-03	2.34E-03	2.31E-03	2.98E-03	4.12E-03	1.03E-04	7.06E-04	6.59E-07	3.05E-05	1.50E-03
Massachusetts	Statewide	N/A	N/A	Methylene Chloride	2.57E-01	3.00E-01	4.36E-01	6.75E-01	7.73E-01	9.54E-01	1.27E+00	1.53E+00	3.83E-02	5.85E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Statewide	N/A	N/A	Nickel Compounds	2.37E-04	3.27E-04	7.62E-04	1.48E-03	1.97E-03	2.53E-03	3.95E-03	5.10E-03	2.28E-05	1.57E-03	3.80E-05	3.37E-04	0.00E+00
Massachusetts	Statewide	N/A	N/A	Perchloroethylene	2.05E-01	2.43E-01	3.39E-01	5.20E-01	5.82E-01	7.38E-01	9.56E-01	1.11E+00	1.42E-02	4.28E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Statewide	N/A	N/A	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	4.84E-10	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Statewide	N/A	N/A	Polycyclic Organic Matter	1.82E-02	2.62E-02	4.69E-02	7.78E-02	9.48E-02	1.32E-01	1.87E-01	2.23E-01	1.13E-05	9.43E-02	3.39E-04	9.25E-05	0.00E+00
Massachusetts	Statewide	N/A	N/A	7-PAH	1.29E-03	1.65E-03	2.75E-03	4.31E-03	5.15E-03	6.91E-03	9.86E-03	1.16E-02	1.23E-06	4.96E-03	1.57E-04	2.79E-05	0.00E+00
Massachusetts	Statewide	N/A	N/A	Propylene Dichloride	1.27E-04	1.83E-04	2.65E-04	3.68E-04	4.85E-04	4.62E-04	5.89E-04	6.90E-04	3.83E-04	1.02E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Quinoline	3.78E-08	8.52E-08	2.72E-07	7.04E-07	8.90E-07	1.04E-06	1.77E-06	2.57E-06	0.00E+00	8.90E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	1,1,2,2-Tetrachloroethane	1.14E-03	1.61E-03	2.34E-03	3.24E-03	4.31E-03	4.12E-03	5.18E-03	6.16E-03	3.51E-03	8.06E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Statewide	N/A	N/A	Trichloroethylene	1.31E-01	1.60E-01	2.31E-01	3.84E-01	4.42E-01	5.47E-01	7.52E-01	9.49E-01	3.12E-02	3.30E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Statewide	N/A	N/A	Vinyl Chloride	2.86E-03	4.07E-03	6.22E-03	8.29E-03	1.10E-02	1.05E-02	1.34E-02	1.61E-02	8.63E-03	2.35E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Acetaldehyde	2.69E-01	3.33E-01	5.98E-01	8.25E-01	8.66E-01	1.07E+00	1.30E+00	1.53E+00	8.28E-05	4.87E-02	5.07E-01	3.11E-01	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Acrolein	4.18E-02	5.30E-02	8.31E-02	1.19E-01	1.25E-01	1.55E-01	1.92E-01	2.21E-01	5.99E-06	1.64E-02	6.55E-02	4.34E-02	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Acrylonitrile	3.02E-03	3.52E-03	4.79E-03	6.26E-03	8.42E-03	7.84E-03	9.83E-03	1.16E-02	6.67E-03	1.75E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Arsenic Compounds	1.47E-05	2.38E-05	4.41E-05	7.54E-05	9.71E-05	1.15E-04	1.79E-04	2.21E-04	1.03E-05	7.76E-05	8.06E-07	8.36E-06	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Benzene	8.16E-01	9.39E-01	1.19E+00	1.51E+00	1.63E+00	1.99E+00	2.52E+00	2.79E+00	4.98E-02	8.98E-02	8.06E-01	2.81E-01	4.80E-01
Massachusetts	All Urban Counties	N/A	U	Beryllium Compounds	3.44E-06	5.25E-06	9.02E-06	1.55E-05	1.85E-05	2.55E-05	3.56E-05	4.24E-05	4.91E-07	1.80E-05	0.00E+00	7.51E-08	0.00E+00
Massachusetts	All Urban Counties	N/A	U	1,3-Butadiene	1.70E-02	2.46E-02	4.00E-02	6.24E-02	8.08E-02	1.10E-01	1.61E-01	1.91E-01	0.00E+00	1.17E-03	6.22E-02	1.75E-02	0.00E+00

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	All Urban Counties	N/A	U	Cadmium Compounds	1.81E-05	2.53E-05	4.75E-05	7.63E-05	1.62E-04	1.22E-04	2.76E-04	6.80E-04	3.13E-06	1.57E-04	0.00E+00	1.05E-06	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	1.22E-05	6.77E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	All Urban Counties	N/A	U	Chloroform	8.42E-02	8.45E-02	8.54E-02	8.66E-02	8.76E-02	8.77E-02	8.97E-02	9.20E-02	1.15E-04	4.47E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	All Urban Counties	N/A	U	Chromium Compounds	5.52E-04	7.46E-04	1.24E-03	1.95E-03	2.65E-03	2.96E-03	5.19E-03	7.15E-03	8.74E-06	2.44E-03	5.10E-05	1.56E-04	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	1,3-Dichloropropene	2.90E-02	4.09E-02	6.61E-02	1.07E-01	1.35E-01	1.86E-01	2.73E-01	3.20E-01	0.00E+00	1.35E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Diesel Particulate Matter	1.47E+00	1.56E+00	1.80E+00	2.19E+00	3.04E+00	2.78E+00	4.93E+00	7.94E+00	0.00E+00	0.00E+00	7.91E-01	2.25E+00	***
Massachusetts	All Urban Counties	N/A	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	7.71E-03	7.71E-03	3.73E-06	1.62E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	All Urban Counties	N/A	U	Ethylene Dichloride	6.14E-02	6.14E-02	6.16E-02	6.18E-02	6.20E-02	6.20E-02	6.22E-02	6.22E-02	7.71E-03	8.07E-04	2.10E-04	0.00E+00	6.10E-02
Massachusetts	All Urban Counties	N/A	U	Ethylene Oxide	6.64E-04	1.02E-03	1.74E-03	2.94E-03	4.68E-03	4.73E-03	1.01E-02	1.60E-02	1.06E-08	4.68E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Formaldehyde	6.27E-01	7.18E-01	1.01E+00	1.32E+00	1.42E+00	1.67E+00	2.12E+00	2.48E+00	1.93E-03	5.20E-02	5.78E-01	5.40E-01	2.50E-01
Massachusetts	All Urban Counties	N/A	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.62E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	All Urban Counties	N/A	U	Hydrazine	2.07E-08	5.81E-08	2.01E-07	4.07E-07	2.22E-06	8.59E-07	2.58E-06	7.45E-06	0.00E+00	2.22E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Lead Compounds	5.77E-04	8.64E-04	1.53E-03	2.57E-03	4.77E-03	5.52E-03	1.07E-02	1.36E-02	1.00E-04	1.83E-03	7.11E-05	2.76E-03	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Manganese Compounds	4.35E-04	6.17E-04	9.72E-04	1.56E-03	1.90E-03	2.63E-03	3.67E-03	4.27E-03	1.28E-05	1.70E-03	2.07E-05	1.60E-04	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Mercury Compounds	1.66E-03	1.71E-03	1.85E-03	2.08E-03	2.39E-03	2.33E-03	3.01E-03	4.16E-03	1.04E-04	7.51E-04	6.88E-07	3.23E-05	1.50E-03
Massachusetts	All Urban Counties	N/A	U	Methylene Chloride	2.85E-01	3.53E-01	4.71E-01	7.20E-01	8.08E-01	9.79E-01	1.30E+00	1.54E+00	3.99E-02	6.18E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	All Urban Counties	N/A	U	Nickel Compounds	3.20E-04	4.97E-04	8.84E-04	1.58E-03	2.09E-03	2.65E-03	4.09E-03	5.42E-03	1.67E-05	1.67E-03	3.97E-05	3.61E-04	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Perchloroethylene	2.29E-01	2.69E-01	3.68E-01	5.49E-01	6.06E-01	7.52E-01	9.77E-01	1.13E+00	1.51E-02	4.51E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	All Urban Counties	N/A	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	All Urban Counties	N/A	U	Polycyclic Organic Matter	2.40E-02	3.37E-02	5.16E-02	8.14E-02	9.98E-02	1.36E-01	1.91E-01	2.25E-01	5.53E-06	9.94E-02	3.54E-04	9.35E-05	0.00E+00
Massachusetts	All Urban Counties	N/A	U	7-PAH	1.54E-03	2.00E-03	3.00E-03	4.47E-03	5.40E-03	7.18E-03	1.00E-02	1.18E-02	1.29E-06	5.21E-03	1.64E-04	2.79E-05	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Propylene Dichloride	1.85E-04	2.18E-04	2.89E-04	3.76E-04	5.09E-04	4.77E-04	5.97E-04	7.02E-04	4.04E-04	1.05E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Quinoline	1.04E-07	1.56E-07	3.37E-07	7.62E-07	1.10E-06	1.17E-06	1.81E-06	2.70E-06	0.00E+00	9.54E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	1.61E-03	1.91E-03	2.57E-03	3.31E-03	4.53E-03	4.20E-03	5.28E-03	6.28E-03	3.70E-03	8.25E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Urban Counties	N/A	U	Trichloroethylene	1.45E-01	1.81E-01	2.59E-01	4.03E-01	4.61E-01	5.60E-01	7.71E-01	9.63E-01	3.32E-02	3.47E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	All Urban Counties	N/A	U	Vinyl Chloride	4.12E-03	4.99E-03	6.81E-03	8.47E-03	1.15E-02	1.08E-02	1.36E-02	1.63E-02	9.12E-03	2.42E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Acetaldehyde	1.22E-01	1.61E-01	1.97E-01	2.53E-01	2.65E-01	3.25E-01	3.63E-01	4.47E-01	2.27E-06	1.91E-02	1.36E-01	1.10E-01	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Acrolein	2.06E-02	3.05E-02	3.87E-02	4.68E-02	4.98E-02	5.62E-02	6.35E-02	7.86E-02	1.97E-06	1.10E-02	2.06E-02	1.83E-02	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Acrylonitrile	7.40E-04	1.04E-03	1.49E-03	2.09E-03	2.67E-03	2.73E-03	4.09E-03	4.64E-03	1.62E-03	1.05E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Arsenic Compounds	4.06E-06	5.70E-06	9.41E-06	1.28E-05	1.92E-05	2.04E-05	4.25E-05	6.26E-05	2.18E-06	1.65E-05	3.17E-07	1.80E-07	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Benzene	6.95E-01	7.15E-01	8.09E-01	9.41E-01	9.26E-01	1.03E+00	1.12E+00	1.18E+00	4.21E-03	2.96E-02	2.06E-01	2.06E-01	4.80E-01
Massachusetts	All Rural Counties	N/A	R	Beryllium Compounds	1.07E-06	1.37E-06	2.70E-06	3.55E-06	5.21E-06	6.11E-06	1.09E-05	1.53E-05	2.93E-07	4.92E-06	0.00E+00	1.18E-09	0.00E+00
Massachusetts	All Rural Counties	N/A	R	1,3-Butadiene	8.66E-03	1.13E-02	1.96E-02	2.98E-02	3.13E-02	3.50E-02	4.47E-02	5.46E-02	8.47E-08	3.74E-03	1.58E-02	1.18E-02	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Cadmium Compounds	4.52E-06	8.77E-06	1.15E-05	2.43E-05	5.31E-05	3.65E-05	6.70E-05	2.27E-04	3.24E-05	2.06E-05	0.00E+00	1.63E-08	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	2.99E-06	1.30E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	All Rural Counties	N/A	R	Chloroform	8.33E-02	8.35E-02	8.38E-02	8.41E-02	8.56E-02	8.68E-02	8.95E-02	9.12E-02	1.67E-03	9.68E-04	0.00E+00	0.00E+00	8.30E-02
Massachusetts	All Rural Counties	N/A	R	Chromium Compounds	4.85E-05	7.40E-05	9.83E-05	1.88E-04	9.60E-04	8.16E-04	2.10E-03	5.24E-03	1.17E-04	7.95E-04	2.03E-05	2.75E-05	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	1,3-Dichloropropene	8.17E-03	9.80E-03	1.97E-02	2.91E-02	3.46E-02	3.88E-02	6.58E-02	8.28E-02	0.00E+00	3.46E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Diesel Particulate Matter	7.96E-01	8.63E-01	1.01E+00	1.18E+00	1.19E+00	1.31E+00	1.46E+00	1.63E+00	0.00E+00	0.00E+00	3.96E-01	7.98E-01	***
Massachusetts	All Rural Counties	N/A	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	9.06E-07	5.91E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	All Rural Counties	N/A	R	Ethylene Dichloride	6.11E-02	6.11E-02	6.12E-02	6.13E-02	6.13E-02	6.13E-02	6.15E-02	6.16E-02	1.96E-04	1.25E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	All Rural Counties	N/A	R	Ethylene Oxide	1.55E-04	1.87E-04	2.77E-04	4.33E-04	6.88E-04	7.28E-04	1.41E-03	1.89E-03	0.00E+00	6.88E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Formaldehyde	4.22E-01	4.58E-01	5.36E-01	6.04E-01	6.29E-01	6.78E-01	7.87E-01	9.29E-01	6.52E-04	5.10E-02	1.50E-01	1.77E-01	2.50E-01
Massachusetts	All Rural Counties	N/A	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.25E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	All Rural Counties	N/A	R	Hydrazine	5.32E-10	1.13E-09	1.69E-09	3.65E-09	1.04E-07	7.54E-09	5.67E-07	9.98E-07	1.00E-07	3.89E-09	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Lead Compounds	3.21E-04	3.91E-04	5.78E-04	8.98E-04	2.99E-03	1.97E-03	4.95E-03	1.00E-02	5.33E-04	2.23E-04	2.83E-05	2.20E-03	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Manganese Compounds	1.28E-04	1.66E-04	2.92E-04	4.08E-04	4.71E-04	5.38E-04	9.36E-04	1.07E-03	2.63E-06	4.31E-04	8.20E-06	2.99E-05	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Mercury Compounds	1.53E-03	1.55E-03	1.58E-03	1.62E-03	1.70E-03	1.66E-03	1.86E-03	2.16E-03	8.73E-05	1.09E-04	2.74E-07	7.64E-06	1.50E-03
Massachusetts	All Rural Counties	N/A	R	Methylene Chloride	1.95E-01	2.10E-01	2.44E-01	2.74E-01	3.16E-01	3.23E-01	4.71E-01	5.91E-01	1.59E-02	1.51E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	All Rural Counties	N/A	R	Nickel Compounds	1.05E-04	1.33E-04	2.14E-04	2.72E-04	4.10E-04	3.33E-04	7.18E-04	1.41E-03	1.05E-04	2.72E-04	1.58E-05	1.76E-05	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Perchloroethylene	1.64E-01	1.69E-01	2.00E-01	2.34E-01	2.62E-01	2.71E-01	3.80E-01	4.51E-01	3.05E-03	1.19E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	All Rural Counties	N/A	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	6.92E-09	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	All Rural Counties	N/A	R	Polycyclic Organic Matter	7.59E-03	1.07E-02	1.70E-02	2.31E-02	2.73E-02	3.11E-02	5.15E-02	6.43E-02	8.43E-05	2.70E-02	1.43E-04	8.03E-05	0.00E+00
Massachusetts	All Rural Counties	N/A	R	7-PAH	4.65E-04	9.11E-04	1.23E-03	1.50E-03	1.82E-03	1.94E-03	3.57E-03	3.89E-03	4.34E-07				

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	All Rural Counties	N/A	R	Quinoline	3.67E-09	1.11E-08	1.90E-08	2.82E-08	3.23E-08	4.15E-08	5.37E-08	8.24E-08	0.00E+00	3.23E-08	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	1,1,2,2-Tetrachloroethane	4.00E-04	5.63E-04	8.04E-04	1.14E-03	1.46E-03	1.48E-03	2.25E-03	2.55E-03	8.99E-04	5.58E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	All Rural Counties	N/A	R	Trichloroethylene	1.00E-01	1.07E-01	1.29E-01	1.56E-01	1.85E-01	1.94E-01	2.68E-01	4.05E-01	5.19E-03	9.90E-02	0.00E+00	0.00E+00	8.10E-02
Massachusetts	All Rural Counties	N/A	R	Vinyl Chloride	9.96E-04	1.39E-03	2.00E-03	2.83E-03	3.61E-03	3.70E-03	5.54E-03	6.33E-03	2.21E-03	1.39E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Acetaldehyde	1.57E-01	2.36E-01	2.70E-01	3.13E-01	3.21E-01	3.59E-01	4.38E-01	5.11E-01	2.69E-06	1.45E-02	1.61E-01	1.42E-01	0.00E+00
Massachusetts	Barnstable	25001	R	Acrolein	2.32E-02	3.55E-02	4.32E-02	4.94E-02	5.37E-02	6.01E-02	7.14E-02	8.79E-02	1.37E-06	6.14E-03	2.32E-02	2.44E-02	0.00E+00
Massachusetts	Barnstable	25001	R	Acrylonitrile	8.12E-04	1.27E-03	1.42E-03	1.84E-03	1.97E-03	2.20E-03	2.73E-03	3.67E-03	1.10E-03	8.71E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Arsenic Compounds	5.70E-06	8.78E-06	1.06E-05	1.28E-05	1.90E-05	1.76E-05	3.57E-05	6.26E-05	2.52E-06	1.61E-05	2.67E-07	2.12E-07	0.00E+00
Massachusetts	Barnstable	25001	R	Benzene	7.71E-01	8.90E-01	9.42E-01	9.90E-01	1.00E+00	1.07E+00	1.16E+00	1.19E+00	2.85E-03	1.63E-02	2.55E-01	2.50E-01	4.80E-01
Massachusetts	Barnstable	25001	R	Beryllium Compounds	1.37E-06	2.00E-06	2.72E-06	3.38E-06	3.39E-06	3.83E-06	4.90E-06	5.48E-06	1.33E-07	3.26E-06	0.00E+00	1.38E-09	0.00E+00
Massachusetts	Barnstable	25001	R	1,3-Butadiene	1.78E-02	2.45E-02	2.78E-02	3.27E-02	3.67E-02	4.32E-02	4.79E-02	6.06E-02	0.00E+00	1.41E-03	1.96E-02	1.57E-02	0.00E+00
Massachusetts	Barnstable	25001	R	Cadmium Compounds	4.76E-06	8.35E-06	1.03E-05	2.21E-05	2.30E-05	3.17E-05	4.34E-05	5.69E-05	5.10E-07	2.24E-05	0.00E+00	1.91E-08	0.00E+00
Massachusetts	Barnstable	25001	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	2.02E-06	1.45E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Barnstable	25001	R	Chloroform	8.34E-02	8.37E-02	8.38E-02	8.40E-02	8.40E-02	8.41E-02	8.44E-02	8.47E-02	1.17E-05	1.01E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Barnstable	25001	R	Chromium Compounds	3.52E-05	5.71E-05	8.19E-05	1.24E-04	1.47E-04	1.83E-04	2.42E-04	3.97E-04	2.80E-06	9.68E-05	1.71E-05	2.99E-05	0.00E+00
Massachusetts	Barnstable	25001	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	1,3-Dichloropropene	1.01E-02	2.06E-02	2.52E-02	2.94E-02	3.01E-02	3.48E-02	4.31E-02	4.61E-02	0.00E+00	3.01E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Diesel Particulate Matter	8.42E-01	8.93E-01	9.68E-01	1.11E+00	1.12E+00	1.22E+00	1.36E+00	1.59E+00	0.00E+00	0.00E+00	3.71E-01	7.52E-01	***
Massachusetts	Barnstable	25001	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	6.15E-07	4.89E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Barnstable	25001	R	Ethylene Dichloride	6.11E-02	6.12E-02	6.12E-02	6.12E-02	6.12E-02	6.13E-02	6.13E-02	6.13E-02	7.10E-02	1.02E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Barnstable	25001	R	Ethylene Oxide	1.55E-04	1.87E-04	3.09E-04	4.02E-04	4.59E-04	5.49E-04	7.28E-04	9.06E-04	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Formaldehyde	4.35E-01	5.36E-01	6.03E-01	6.49E-01	6.80E-01	7.12E-01	8.27E-01	1.03E+00	2.33E-05	2.34E-02	1.81E-01	2.25E-01	2.50E-01
Massachusetts	Barnstable	25001	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.95E-09	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Barnstable	25001	R	Hydrazine	1.30E-09	1.58E-09	2.05E-09	3.65E-09	4.09E-09	5.14E-09	6.94E-09	7.77E-09	0.00E+00	4.09E-09	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Lead Compounds	5.78E-04	6.63E-04	7.98E-04	1.00E-03	4.12E-03	2.47E-03	7.44E-03	1.61E-02	4.37E-05	2.03E-04	2.37E-05	3.85E-03	0.00E+00
Massachusetts	Barnstable	25001	R	Manganese Compounds	1.47E-04	2.74E-04	3.37E-04	4.08E-04	4.03E-04	4.67E-04	5.61E-04	6.07E-04	3.10E-06	3.60E-04	6.85E-06	3.27E-05	0.00E+00
Massachusetts	Barnstable	25001	R	Mercury Compounds	1.54E-03	1.57E-03	1.58E-03	1.60E-03	1.61E-03	1.63E-03	1.68E-03	1.71E-03	6.49E-06	9.31E-05	2.30E-07	8.27E-06	1.50E-03
Massachusetts	Barnstable	25001	R	Methylene Chloride	2.09E-01	2.20E-01	2.53E-01	2.69E-01	2.80E-01	3.19E-01	3.39E-01	3.52E-01	4.95E-03	1.25E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Barnstable	25001	R	Nickel Compounds	1.43E-04	1.98E-04	2.25E-04	2.75E-04	2.75E-04	3.09E-04	3.52E-04	4.01E-04	3.79E-06	2.38E-04	1.33E-05	1.98E-05	0.00E+00
Massachusetts	Barnstable	25001	R	Perchloroethylene	1.87E-01	1.95E-01	2.21E-01	2.37E-01	2.43E-01	2.67E-01	2.91E-01	2.95E-01	2.00E-03	1.01E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Barnstable	25001	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Barnstable	25001	R	Polycyclic Organic Matter	8.13E-03	1.61E-02	1.93E-02	2.31E-02	2.28E-02	2.65E-02	3.12E-02	3.32E-02	1.78E-07	2.26E-02	1.49E-04	1.08E-04	0.00E+00
Massachusetts	Barnstable	25001	R	7-PAH	5.38E-04	1.04E-03	1.23E-03	1.45E-03	1.43E-03	1.66E-03	1.90E-03	2.00E-03	1.05E-07	1.33E-03	6.43E-05	3.36E-05	0.00E+00
Massachusetts	Barnstable	25001	R	Propylene Dichloride	4.85E-05	7.62E-05	8.48E-05	1.11E-04	1.18E-04	1.32E-04	1.64E-04	2.20E-04	6.66E-05	5.15E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Quinoline	7.35E-09	1.11E-08	1.62E-08	2.88E-08	3.40E-08	4.82E-08	6.00E-08	8.78E-08	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	1,1,2,2-Tetrachloroethane	4.38E-04	6.87E-04	7.65E-04	9.96E-04	1.07E-03	1.19E-03	1.48E-03	1.99E-03	6.10E-04	4.56E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Barnstable	25001	R	Trichloroethylene	1.12E-01	1.18E-01	1.40E-01	1.56E-01	1.62E-01	1.88E-01	1.99E-01	2.26E-01	6.92E-03	7.45E-02	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Barnstable	25001	R	Vinyl Chloride	1.08E-03	1.72E-03	1.91E-03	2.48E-03	2.64E-03	2.96E-03	3.68E-03	4.91E-03	1.50E-03	1.14E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Acetaldehyde	1.48E-01	1.65E-01	1.76E-01	2.05E-01	2.05E-01	2.33E-01	2.45E-01	2.74E-01	2.18E-06	2.39E-02	1.16E-01	6.52E-02	0.00E+00
Massachusetts	Berkshire	25003	R	Acrolein	3.08E-02	3.17E-02	3.65E-02	4.52E-02	4.61E-02	5.50E-02	5.75E-02	6.35E-02	3.32E-06	1.56E-02	1.99E-02	1.06E-02	0.00E+00
Massachusetts	Berkshire	25003	R	Acrylonitrile	1.82E-03	2.09E-03	2.47E-03	2.85E-03	4.14E-03	4.03E-03	4.64E-03	7.15E-03	2.75E-03	1.40E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Arsenic Compounds	4.45E-06	5.17E-06	9.08E-06	1.47E-05	2.22E-05	3.24E-05	4.66E-05	6.46E-05	2.17E-06	1.98E-05	1.61E-07	1.45E-07	0.00E+00
Massachusetts	Berkshire	25003	R	Benzene	6.88E-01	7.00E-01	7.20E-01	8.23E-01	8.30E-01	8.99E-01	9.73E-01	1.03E+00	7.15E-03	3.56E-02	1.65E-01	1.42E-01	4.80E-01
Massachusetts	Berkshire	25003	R	Beryllium Compounds	1.08E-06	1.55E-06	4.06E-06	7.78E-06	8.74E-06	1.29E-05	1.70E-05	1.91E-05	6.03E-07	8.14E-06	0.00E+00	9.55E-10	0.00E+00
Massachusetts	Berkshire	25003	R	1,3-Butadiene	8.56E-03	9.15E-03	1.13E-02	1.94E-02	2.17E-02	2.96E-02	3.25E-02	4.33E-02	2.32E-07	2.78E-03	1.27E-02	6.18E-03	0.00E+00
Massachusetts	Berkshire	25003	R	Cadmium Compounds	1.96E-05	2.19E-05	2.64E-05	3.57E-05	1.08E-04	8.41E-05	2.61E-04	3.83E-04	8.78E-05	2.05E-05	0.00E+00	1.32E-08	0.00E+00
Massachusetts	Berkshire	25003	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	5.08E-06	1.26E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Berkshire	25003	R	Chloroform	8.58E-02	8.58E-02	8.66E-02	8.82E-02	8.86E-02	9.00E-02	9.16E-02	9.57E-02	4.55E-03	1.05E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Berkshire	25003	R	Chromium Compounds	3.64E-04	3.98E-04	7.55E-04	1.03E-03	2.38E-03	2.64E-03	6.16E-03	6.78E-03	3.17E-04	2.02E-03	1.12E-05	2.61E-05	0.00E+00
Massachusetts	Berkshire	25003	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	1,3-Dichloropropene	9.01E-03	9.70E-03	1.66E-02	3.20E-02	4.59E-02	7.25E-02	8.69E-02	1.29E-01	0.00E+00	4.59E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Diesel Particulate Matter	1.03E+00	1.14E+00	1.20E+00	1.29E+00	1.38E+00	1.40E+00	1.60E+00	1.68E+00	0.00E+00	0.00E+00	4.78E-01	9.06E-01	***
Massachusetts	Berkshire	25003	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	1.54E-06	7.92E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Berkshire	25003	R	Ethylene Dichloride	6.12E-02	6.13E-02	6.13E-02	6.13E-02	6.15E-02	6.15E-02	6.16E-02	6.19E-02	3.32E-04	1.68E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Berkshire	25003	R	Ethylene Oxide	2.17E-04	2.38E-04	4.11E-04	7.14E-04	1.12E-03	1.41E-03	2.32E-03	4.87E-03	0.00E+00	1.12E-03	0.00E		

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Berkshire	25003	R	Hydrazine	1.00E-09	1.16E-09	1.66E-09	2.31E-07	2.79E-07	5.68E-07	5.99E-07	6.45E-07	2.74E-07	4.37E-09	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Lead Compounds	1.84E-04	3.15E-04	3.67E-04	4.90E-04	1.69E-03	1.29E-03	4.13E-03	6.16E-03	1.39E-03	2.81E-04	1.54E-05	1.10E-05	0.00E+00
Massachusetts	Berkshire	25003	R	Manganese Compounds	1.65E-04	2.03E-04	2.80E-04	5.00E-04	6.37E-04	9.36E-04	1.13E-03	1.58E-03	2.55E-06	6.02E-04	4.31E-06	2.82E-05	0.00E+00
Massachusetts	Berkshire	25003	R	Mercury Compounds	1.61E-03	1.62E-03	1.64E-03	1.66E-03	1.89E-03	1.90E-03	2.33E-03	3.04E-03	2.28E-04	1.53E-04	1.48E-07	7.31E-06	1.50E-03
Massachusetts	Berkshire	25003	R	Methylene Chloride	2.11E-01	2.23E-01	2.62E-01	3.01E-01	3.94E-01	4.71E-01	6.06E-01	9.16E-01	3.58E-02	2.09E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Berkshire	25003	R	Nickel Compounds	1.05E-04	1.13E-04	2.10E-04	2.68E-04	6.65E-04	7.98E-04	1.55E-03	3.47E-03	2.81E-04	3.60E-04	8.64E-06	1.59E-05	0.00E+00
Massachusetts	Berkshire	25003	R	Perchloroethylene	1.65E-01	1.68E-01	1.95E-01	2.39E-01	3.10E-01	3.80E-01	4.65E-01	7.29E-01	5.27E-03	1.64E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Berkshire	25003	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	1.89E-08	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Berkshire	25003	R	Polycyclic Organic Matter	1.07E-02	1.11E-02	1.67E-02	2.78E-02	3.73E-02	5.71E-02	6.59E-02	9.06E-02	2.42E-04	3.69E-02	1.60E-04	4.17E-05	0.00E+00
Massachusetts	Berkshire	25003	R	7-PAH	9.51E-04	1.05E-03	1.36E-03	2.12E-03	2.60E-03	3.58E-03	4.67E-03	5.48E-03	1.02E-06	2.51E-03	7.16E-05	2.08E-05	0.00E+00
Massachusetts	Berkshire	25003	R	Propylene Dichloride	1.10E-04	1.26E-04	1.49E-04	1.72E-04	2.50E-04	2.42E-04	2.80E-04	4.32E-04	1.66E-04	8.41E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Quinoline	1.89E-08	1.96E-08	2.13E-08	3.29E-08	3.50E-08	4.05E-08	4.89E-08	6.44E-08	0.00E+00	3.50E-08	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	1,1,2,2-Tetrachloroethane	1.00E-03	1.14E-03	1.35E-03	1.57E-03	2.28E-03	2.20E-03	2.55E-03	3.93E-03	1.52E-03	7.54E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Berkshire	25003	R	Trichloroethylene	1.00E-01	1.04E-01	1.31E-01	1.61E-01	2.34E-01	2.68E-01	4.09E-01	6.68E-01	3.00E-03	1.50E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Berkshire	25003	R	Vinyl Chloride	2.47E-03	2.84E-03	3.35E-03	3.87E-03	5.63E-03	5.48E-03	6.33E-03	9.70E-03	3.75E-03	1.88E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Acetaldehyde	5.27E-01	5.61E-01	6.44E-01	7.05E-01	7.00E-01	7.61E-01	8.11E-01	8.46E-01	8.29E-04	3.51E-02	4.53E-01	2.11E-01	0.00E+00
Massachusetts	Bristol	25005	U	Acrolein	7.41E-02	7.94E-02	9.50E-02	1.03E-01	1.03E-01	1.13E-01	1.22E-01	1.32E-01	2.20E-05	1.73E-02	5.68E-02	2.93E-02	0.00E+00
Massachusetts	Bristol	25005	U	Acrylonitrile	2.65E-03	2.89E-03	3.45E-03	5.38E-03	5.34E-03	6.62E-03	7.63E-03	7.92E-03	3.91E-03	1.43E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Arsenic Compounds	5.93E-05	6.66E-05	9.31E-05	1.39E-04	2.42E-04	2.07E-04	7.42E-04	8.71E-04	3.45E-05	2.01E-04	7.84E-07	5.95E-06	0.00E+00
Massachusetts	Bristol	25005	U	Benzene	1.07E+00	1.12E+00	1.23E+00	1.47E+00	1.51E+00	1.72E+00	1.98E+00	2.15E+00	1.03E-02	4.29E-02	7.58E-01	2.21E-01	4.80E-01
Massachusetts	Bristol	25005	U	Beryllium Compounds	6.84E-06	7.48E-06	9.25E-06	1.51E-05	1.64E-05	2.19E-05	2.92E-05	2.95E-05	1.89E-06	1.45E-05	0.00E+00	5.12E-08	0.00E+00
Massachusetts	Bristol	25005	U	1,3-Butadiene	3.24E-02	3.47E-02	4.27E-02	7.39E-02	8.03E-02	1.11E-01	1.37E-01	1.55E-01	0.00E+00	2.11E-03	6.39E-02	1.43E-02	0.00E+00
Massachusetts	Bristol	25005	U	Cadmium Compounds	1.43E-04	1.82E-04	2.50E-04	6.43E-04	7.93E-04	1.15E-03	1.79E-03	2.21E-03	6.37E-06	7.86E-04	0.00E+00	7.15E-07	0.00E+00
Massachusetts	Bristol	25005	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.81E-01	7.16E-06	4.17E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Bristol	25005	U	Chloroform	8.50E-02	8.52E-02	8.56E-02	8.61E-02	8.61E-02	8.64E-02	8.69E-02	8.72E-02	9.21E-05	2.98E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Bristol	25005	U	Chromium Compounds	1.23E-03	1.27E-03	1.80E-03	2.94E-03	3.86E-03	5.53E-03	8.64E-03	9.14E-03	2.27E-05	3.68E-03	5.03E-05	1.07E-04	0.00E+00
Massachusetts	Bristol	25005	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	1,3-Dichloropropene	4.60E-02	5.27E-02	6.50E-02	1.05E-01	1.25E-01	1.86E-01	2.26E-01	2.48E-01	0.00E+00	1.25E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Diesel Particulate Matter	1.48E+00	1.56E+00	1.74E+00	1.91E+00	1.99E+00	2.24E+00	2.51E+00	2.65E+00	0.00E+00	0.00E+00	7.32E-01	1.26E+00	***
Massachusetts	Bristol	25005	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	2.19E-06	1.66E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Bristol	25005	U	Ethylene Dichloride	6.13E-02	6.14E-02	6.15E-02	6.17E-02	6.17E-02	6.18E-02	6.19E-02	6.20E-02	4.76E-04	1.78E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Bristol	25005	U	Ethylene Oxide	7.42E-04	1.02E-03	1.29E-03	1.76E-03	2.13E-03	2.52E-03	3.77E-03	4.50E-03	7.60E-08	2.13E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Formaldehyde	8.80E-01	9.30E-01	1.07E+00	1.18E+00	1.19E+00	1.31E+00	1.39E+00	1.51E+00	2.12E-04	5.53E-02	5.22E-01	3.62E-01	2.50E-01
Massachusetts	Bristol	25005	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	2.01E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Bristol	25005	U	Hydrazine	1.68E-07	2.26E-07	4.72E-07	1.30E-06	1.35E-06	1.68E-06	2.58E-06	3.42E-06	0.00E+00	1.35E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Lead Compounds	2.33E-03	2.62E-03	3.32E-03	5.47E-03	6.43E-03	9.43E-03	1.19E-02	1.31E-02	7.39E-05	4.67E-03	7.03E-05	1.61E-03	0.00E+00
Massachusetts	Bristol	25005	U	Manganese Compounds	7.79E-04	8.31E-04	1.03E-03	1.52E-03	1.82E-03	2.48E-03	3.34E-03	3.69E-03	4.17E-05	1.64E-03	2.05E-05	1.12E-04	0.00E+00
Massachusetts	Bristol	25005	U	Mercury Compounds	1.72E-03	1.73E-03	1.78E-03	1.91E-03	1.91E-03	2.00E-03	2.11E-03	2.17E-03	2.71E-05	3.57E-04	6.77E-07	2.19E-05	1.50E-03
Massachusetts	Bristol	25005	U	Methylene Chloride	3.59E-01	3.77E-01	4.63E-01	6.30E-01	6.90E-01	8.22E-01	1.09E+00	1.32E+00	3.78E-02	5.02E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Bristol	25005	U	Nickel Compounds	7.29E-04	7.90E-04	1.04E-03	1.31E-03	1.69E-03	2.20E-03	3.34E-03	3.46E-03	4.09E-05	1.36E-03	3.91E-05	2.49E-04	0.00E+00
Massachusetts	Bristol	25005	U	Perchloroethylene	2.84E-01	3.22E-01	3.70E-01	5.16E-01	5.62E-01	6.82E-01	8.63E-01	1.03E+00	1.52E-02	4.07E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Bristol	25005	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Bristol	25005	U	Polycyclic Organic Matter	3.83E-02	4.15E-02	5.16E-02	7.73E-02	9.23E-02	1.31E-01	1.61E-01	1.74E-01	4.03E-05	9.19E-02	3.05E-04	6.55E-05	0.00E+00
Massachusetts	Bristol	25005	U	7-PAH	2.30E-03	2.40E-03	3.03E-03	4.34E-03	5.11E-03	7.02E-03	8.67E-03	9.91E-03	1.32E-07	4.95E-03	1.38E-04	2.13E-05	0.00E+00
Massachusetts	Bristol	25005	U	Propylene Dichloride	1.68E-04	1.83E-04	2.19E-04	3.20E-04	3.23E-04	4.01E-04	4.62E-04	4.78E-04	2.37E-04	8.67E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Quinoline	3.27E-07	3.40E-07	5.00E-07	9.66E-07	1.23E-06	1.72E-06	2.66E-06	3.32E-06	0.00E+00	1.23E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	1,1,2,2-Tetrachloroethane	1.39E-03	1.58E-03	1.86E-03	2.85E-03	2.85E-03	3.54E-03	4.09E-03	4.20E-03	2.19E-03	6.59E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Bristol	25005	U	Trichloroethylene	2.07E-01	2.40E-01	3.00E-01	4.21E-01	4.93E-01	6.09E-01	8.52E-01	1.04E+00	8.52E-02	3.26E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Bristol	25005	U	Vinyl Chloride	3.44E-03	3.86E-03	4.59E-03	7.06E-03	7.06E-03	8.77E-03	1.01E-02	1.04E-02	5.35E-03	1.71E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Acetaldehyde	1.10E-01	1.10E-01	1.35E-01	1.80E-01	1.68E-01	2.00E-01	2.02E-01	2.02E-01	0.00E+00	1.68E-02	6.77E-02	8.34E-02	0.00E+00
Massachusetts	Dukes	25007	R	Acrolein	1.45E-02	1.45E-02	2.15E-02	3.41E-02	3.11E-02	4.08E-02	4.18E-02	4.18E-02	0.00E+00	1.05E-02	9.07E-03	1.16E-02	0.00E+00
Massachusetts	Dukes	25007	R	Acrylonitrile	6.48E-04	6.48E-04	8.25E-04	1.02E-03	9.59E-04	1.09E-03	1.15E-03	1.15E-03	2.90E-04	6.69E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Arsenic Compounds	3.41E-06	3.41E-06	4.77E-06	7.28E-06	7.39E-06	1.00E-05	1.16E-05	1.16E-05	7.96E-08	6.05E-06	1.01E-06	2.57E-07	0.00E+00
Massachusetts	Dukes	25007	R	Benzene	6.27E-01	6.27E-01	6.79E-01	7.69E-01	7.54E-01	8.29E-01	8.50E-01	8.50E-01	7.50E-04	5.53E-02	8.72E-02	1.31E-01	4.80E-01
Massachusetts	Dukes	25007	R	Beryllium Compounds	5.60E-07	5.60E-07	8.40E-07	1.49E-06	1.56E-06	2.28E-06	2.70E-06	2.70E-06	0.00E+00	1.56E-06			

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Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Dukes	25007	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	5.32E-07	5.60E-05	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Dukes	25007	R	Chloroform	8.33E-02	8.33E-02	8.33E-02	8.34E-02	8.34E-02	8.35E-02	8.35E-02	8.35E-02	3.10E-06	3.78E-04	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Dukes	25007	R	Chromium Compounds	8.81E-05	8.81E-05	9.97E-05	1.36E-04	1.33E-04	1.67E-04	1.74E-04	1.74E-04	1.02E-06	5.52E-05	6.30E-05	1.42E-05	0.00E+00
Massachusetts	Dukes	25007	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	1,3-Dichloropropene	5.11E-03	5.11E-03	7.46E-03	1.41E-02	1.34E-02	1.94E-02	2.04E-02	2.04E-02	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Diesel Particulate Matter	7.19E-01	7.19E-01	7.41E-01	8.05E-01	8.16E-01	8.91E-01	9.34E-01	9.34E-01	0.00E+00	0.00E+00	2.69E-01	5.47E-01	***
Massachusetts	Dukes	25007	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	1.62E-07	3.83E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Dukes	25007	R	Ethylene Dichloride	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.12E-02	6.12E-02	6.12E-02	3.51E-05	9.12E-05	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Dukes	25007	R	Ethylene Oxide	8.45E-05	8.45E-05	1.27E-04	2.01E-04	2.36E-04	4.58E-04	4.58E-04	4.58E-04	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Formaldehyde	3.70E-01	3.70E-01	4.18E-01	5.12E-01	4.99E-01	5.80E-01	6.02E-01	6.02E-01	1.73E-05	6.52E-02	7.34E-02	1.11E-01	2.50E-01
Massachusetts	Dukes	25007	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	3.82E-09	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Dukes	25007	R	Hydrazine	7.63E-10	7.63E-10	9.25E-10	1.16E-09	1.11E-09	1.30E-09	1.37E-09	1.37E-09	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Lead Compounds	5.96E-04	5.96E-04	1.20E-03	1.87E-03	1.69E-03	2.17E-03	2.41E-03	2.41E-03	3.48E-05	1.10E-04	8.87E-05	1.45E-03	0.00E+00
Massachusetts	Dukes	25007	R	Manganese Compounds	7.54E-05	7.54E-05	1.14E-04	2.05E-04	1.96E-04	2.78E-04	2.97E-04	2.97E-04	8.11E-08	1.55E-04	2.61E-05	1.48E-05	0.00E+00
Massachusetts	Dukes	25007	R	Mercury Compounds	1.53E-03	1.53E-03	1.53E-03	1.54E-03	1.54E-03	1.55E-03	1.55E-03	1.55E-03	4.77E-06	3.14E-05	8.53E-07	3.79E-06	1.50E-03
Massachusetts	Dukes	25007	R	Methylene Chloride	1.74E-01	1.74E-01	1.85E-01	2.05E-01	2.14E-01	2.43E-01	2.72E-01	2.72E-01	2.19E-03	6.16E-02	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Dukes	25007	R	Nickel Compounds	1.15E-04	1.15E-04	1.63E-04	2.19E-04	2.16E-04	2.69E-04	3.11E-04	3.11E-04	4.94E-07	1.53E-04	4.91E-05	1.31E-05	0.00E+00
Massachusetts	Dukes	25007	R	Perchloroethylene	1.57E-01	1.57E-01	1.65E-01	1.81E-01	1.87E-01	2.09E-01	2.30E-01	2.30E-01	5.20E-04	4.67E-02	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Dukes	25007	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Dukes	25007	R	Polycyclic Organic Matter	4.41E-03	4.41E-03	6.68E-03	1.30E-02	1.27E-02	1.87E-02	2.04E-02	2.04E-02	0.00E+00	1.26E-02	3.88E-05	5.17E-05	0.00E+00
Massachusetts	Dukes	25007	R	7-PAH	2.87E-04	2.87E-04	4.33E-04	8.93E-04	8.37E-04	1.24E-03	1.28E-03	1.28E-03	8.75E-08	8.01E-04	1.81E-05	1.81E-05	0.00E+00
Massachusetts	Dukes	25007	R	Propylene Dichloride	3.90E-05	3.90E-05	4.96E-05	6.13E-05	5.77E-05	6.58E-05	6.93E-05	6.93E-05	1.76E-05	4.01E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Quinoline	1.52E-08	1.52E-08	1.78E-08	2.15E-08	2.09E-08	2.40E-08	2.54E-08	2.54E-08	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	1,1,2,2-Tetrachloroethane	3.52E-04	3.52E-04	4.49E-04	5.55E-04	5.22E-04	5.95E-04	6.27E-04	6.27E-04	1.61E-04	3.61E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Dukes	25007	R	Trichloroethylene	1.02E-01	1.02E-01	1.07E-01	1.17E-01	1.25E-01	1.43E-01	1.63E-01	1.63E-01	6.81E-03	3.70E-02	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Dukes	25007	R	Vinyl Chloride	8.68E-04	8.68E-04	1.11E-03	1.37E-03	1.29E-03	1.47E-03	1.55E-03	1.55E-03	3.97E-04	8.91E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Acetaldehyde	4.62E-01	5.68E-01	7.16E-01	9.23E-01	8.78E-01	1.03E+00	1.13E+00	1.20E+00	1.01E-05	5.11E-02	5.45E-01	2.81E-01	0.00E+00
Massachusetts	Essex	25009	U	Acrolein	7.38E-02	8.50E-02	1.03E-01	1.32E-01	1.29E-01	1.54E-01	1.73E-01	1.87E-01	5.15E-06	1.91E-02	7.07E-02	3.96E-02	0.00E+00
Massachusetts	Essex	25009	U	Acrylonitrile	1.96E-03	3.03E-03	3.48E-03	4.35E-03	9.83E-03	5.89E-03	9.46E-03	1.21E-02	8.10E-03	1.73E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Arsenic Compounds	3.49E-05	3.91E-05	4.98E-05	7.07E-05	8.62E-05	1.00E-04	1.39E-04	1.70E-04	1.01E-05	6.79E-05	7.53E-07	7.42E-06	0.00E+00
Massachusetts	Essex	25009	U	Benzene	1.07E+00	1.14E+00	1.34E+00	1.58E+00	1.73E+00	1.99E+00	2.45E+00	2.76E+00	2.09E-02	5.17E-02	8.68E-01	3.09E-01	4.80E-01
Massachusetts	Essex	25009	U	Beryllium Compounds	6.18E-06	6.84E-06	1.08E-05	1.59E-05	1.93E-05	2.46E-05	3.54E-05	4.40E-05	4.28E-07	1.88E-05	0.00E+00	6.27E-08	0.00E+00
Massachusetts	Essex	25009	U	1,3-Butadiene	2.60E-02	3.38E-02	5.06E-02	6.98E-02	8.67E-02	1.10E-01	1.59E-01	1.91E-01	0.00E+00	2.03E-03	6.68E-02	1.79E-02	0.00E+00
Massachusetts	Essex	25009	U	Cadmium Compounds	2.78E-05	3.04E-05	4.08E-05	5.82E-05	8.87E-05	8.36E-05	1.05E-04	1.37E-04	6.16E-06	8.16E-05	0.00E+00	8.74E-07	0.00E+00
Massachusetts	Essex	25009	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	1.48E-05	8.80E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Essex	25009	U	Chloroform	8.46E-02	8.49E-02	8.52E-02	8.59E-02	8.86E-02	8.72E-02	8.89E-02	9.01E-02	8.64E-05	5.47E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Essex	25009	U	Chromium Compounds	6.64E-04	8.17E-04	1.32E-03	2.20E-03	3.92E-03	3.93E-03	6.84E-03	1.29E-02	9.40E-06	3.73E-03	4.80E-05	1.30E-04	0.00E+00
Massachusetts	Essex	25009	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	1,3-Dichloropropene	4.05E-02	4.97E-02	7.72E-02	1.10E-01	1.47E-01	1.90E-01	2.95E-01	3.42E-01	0.00E+00	1.47E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Diesel Particulate Matter	1.55E+00	1.63E+00	1.86E+00	2.22E+00	2.38E+00	2.58E+00	3.01E+00	3.41E+00	0.00E+00	0.00E+00	7.82E-01	1.60E+00	***
Massachusetts	Essex	25009	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.70E-03	7.71E-03	7.71E-03	4.53E-06	2.20E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Essex	25009	U	Ethylene Dichloride	6.12E-02	6.14E-02	6.14E-02	6.16E-02	6.22E-02	6.17E-02	6.22E-02	6.25E-02	9.79E-04	2.23E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Essex	25009	U	Ethylene Oxide	9.99E-04	1.10E-03	1.76E-03	2.67E-03	2.92E-03	3.55E-03	4.88E-03	6.34E-03	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Formaldehyde	9.14E-01	1.03E+00	1.18E+00	1.40E+00	1.41E+00	1.64E+00	1.85E+00	1.96E+00	2.10E-04	6.20E-02	6.19E-01	4.82E-01	2.50E-01
Massachusetts	Essex	25009	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	0.00E+00	2.20E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Essex	25009	U	Hydrazine	3.54E-07	5.84E-07	1.49E-06	3.75E-06	1.24E-05	1.10E-05	2.50E-05	5.47E-05	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Lead Compounds	9.27E-04	1.26E-03	2.17E-03	3.02E-03	4.69E-03	5.84E-03	9.58E-03	1.27E-02	2.55E-04	1.44E-03	6.71E-05	2.93E-03	0.00E+00
Massachusetts	Essex	25009	U	Manganese Compounds	6.60E-04	7.70E-04	1.18E-03	1.55E-03	2.01E-03	2.61E-03	3.85E-03	4.28E-03	1.36E-05	1.84E-03	1.96E-05	1.36E-04	0.00E+00
Massachusetts	Essex	25009	U	Mercury Compounds	1.76E-03	1.84E-03	1.93E-03	2.08E-03	2.39E-03	2.29E-03	2.46E-03	2.57E-03	1.94E-04	6.65E-04	6.47E-07	2.62E-05	1.50E-03
Massachusetts	Essex	25009	U	Methylene Chloride	3.53E-01	4.02E-01	5.28E-01	7.75E-01	1.03E+00	1.16E+00	1.67E+00	2.61E+00	5.21E-02	8.25E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Essex	25009	U	Nickel Compounds	6.25E-04	7.29E-04	1.06E-03	1.74E-03	2.33E-03	2.54E-03	3.70E-03	5.86E-03	1.97E-05	1.96E-03	3.74E-05	3.06E-04	0.00E+00
Massachusetts	Essex	25009	U	Perchloroethylene	2.61E-01	2.73E-01	3.76E-01	5.39E-01	6.56E-01	7.41E-01	1.06E+00	1.42E+00	1.48E-02	5.01E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Essex	25009	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Essex	25009	U	Polycyclic Organic Matter	3.36E-02	4.04E-02	6.27E-02	8.60E-02	1.11E-01	1.41E-01	2.15E-01	2.45E-01	6.00E-07	1.11E-01	5.32E-04	1.03E-04	0.00E+00
Massachusetts	Essex	25009	U	7-PAH	1.98E-03	2.36E-03	3.48E-03	4.74E-03	5.97E-03	7.53E-03	1.12E-02	1.30E-02	2.15E-06	5.68E-0			

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m ³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Essex	25009	U	1,1,2,2-Tetrachloroethane	1.05E-03	1.62E-03	1.86E-03	2.34E-03	5.30E-03	3.17E-03	5.07E-03	6.57E-03	4.49E-03	8.04E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Essex	25009	U	Trichloroethylene	1.76E-01	1.90E-01	2.74E-01	4.01E-01	5.33E-01	5.81E-01	9.04E-01	1.41E+00	2.19E-02	4.30E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Essex	25009	U	Vinyl Chloride	2.86E-03	4.45E-03	5.39E-03	6.63E-03	1.43E-02	9.00E-03	1.55E-02	2.06E-02	1.11E-02	3.19E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Acetaldehyde	1.10E-01	1.30E-01	1.51E-01	1.87E-01	1.89E-01	2.41E-01	2.43E-01	2.69E-01	3.76E-06	2.68E-02	8.33E-02	7.91E-02	0.00E+00
Massachusetts	Franklin	25011	U	Acrolein	2.22E-02	2.37E-02	2.56E-02	2.86E-02	3.31E-02	3.64E-02	5.39E-02	6.13E-02	1.91E-06	1.18E-02	1.64E-02	4.92E-03	0.00E+00
Massachusetts	Franklin	25011	U	Acrylonitrile	1.02E-03	1.07E-03	1.55E-03	2.16E-03	2.02E-03	2.49E-03	2.60E-03	3.13E-03	1.02E-03	1.00E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Arsenic Compounds	4.05E-06	5.34E-06	6.69E-06	1.36E-05	1.98E-05	2.29E-05	4.80E-05	6.85E-05	2.76E-06	1.47E-05	2.31E-06	1.37E-09	0.00E+00
Massachusetts	Franklin	25011	U	Benzene	5.85E-01	5.86E-01	6.11E-01	6.38E-01	7.14E-01	7.37E-01	9.60E-01	1.21E+00	2.63E-03	7.70E-02	1.14E-01	4.04E-02	4.80E-01
Massachusetts	Franklin	25011	U	Beryllium Compounds	8.75E-07	1.06E-06	1.50E-06	2.61E-06	4.34E-06	4.80E-06	1.13E-05	1.71E-05	1.46E-07	4.19E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	1,3-Butadiene	4.23E-03	4.33E-03	5.12E-03	6.52E-03	1.15E-02	1.39E-02	3.15E-02	4.11E-02	0.00E+00	1.81E-03	7.46E-03	2.19E-03	0.00E+00
Massachusetts	Franklin	25011	U	Cadmium Compounds	5.26E-06	5.45E-06	6.52E-06	1.52E-05	1.59E-05	2.07E-05	2.90E-05	3.71E-05	7.24E-07	1.52E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	1.86E-06	1.08E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Franklin	25011	U	Chloroform	8.34E-02	8.34E-02	8.35E-02	8.38E-02	8.38E-02	8.40E-02	8.43E-02	8.44E-02	5.91E-05	7.44E-04	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Franklin	25011	U	Chromium Compounds	1.16E-04	1.16E-04	1.73E-04	2.70E-04	3.51E-04	4.03E-04	6.98E-04	9.53E-04	3.45E-06	1.72E-04	1.59E-04	1.56E-05	0.00E+00
Massachusetts	Franklin	25011	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	1,3-Dichloropropene	6.82E-03	8.32E-03	1.13E-02	1.94E-02	3.17E-02	3.62E-02	8.93E-02	1.25E-01	0.00E+00	3.17E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Diesel Particulate Matter	1.00E+00	1.07E+00	1.09E+00	1.19E+00	1.25E+00	1.33E+00	1.53E+00	1.74E+00	0.00E+00	0.00E+00	4.35E-01	8.14E-01	***
Massachusetts	Franklin	25011	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	5.68E-07	6.18E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Franklin	25011	U	Ethylene Dichloride	6.11E-02	6.11E-02	6.12E-02	6.13E-02	6.13E-02	6.14E-02	6.14E-02	6.14E-02	1.23E-04	1.45E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Franklin	25011	U	Ethylene Oxide	3.42E-04	3.50E-04	6.13E-04	9.12E-04	1.59E-03	1.75E-03	4.65E-03	6.15E-03	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Formaldehyde	4.08E-01	4.26E-01	4.39E-01	4.74E-01	4.89E-01	5.19E-01	6.03E-01	6.50E-01	2.58E-03	4.71E-02	9.36E-02	9.62E-02	2.50E-01
Massachusetts	Franklin	25011	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.31E-05	9.31E-05	0.00E+00	3.29E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Franklin	25011	U	Hydrazine	1.05E-09	2.17E-09	2.63E-09	3.83E-09	6.78E-09	1.02E-08	1.93E-08	2.15E-08	0.00E+00	6.78E-09	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Lead Compounds	1.63E-04	2.43E-04	2.54E-04	3.17E-04	4.42E-04	5.19E-04	9.24E-04	1.25E-03	8.49E-06	1.66E-04	2.25E-04	4.27E-05	0.00E+00
Massachusetts	Franklin	25011	U	Manganese Compounds	1.80E-04	1.98E-04	2.09E-04	3.33E-04	5.24E-04	6.07E-04	1.36E-03	1.82E-03	3.42E-06	4.37E-04	6.54E-05	1.81E-05	0.00E+00
Massachusetts	Franklin	25011	U	Mercury Compounds	1.55E-03	1.55E-03	1.56E-03	1.59E-03	1.59E-03	1.62E-03	1.64E-03	1.65E-03	6.58E-06	8.07E-05	2.10E-06	4.39E-06	1.50E-03
Massachusetts	Franklin	25011	U	Methylene Chloride	1.81E-01	2.00E-01	2.07E-01	2.37E-01	3.25E-01	3.20E-01	7.12E-01	8.82E-01	5.03E-03	1.70E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Franklin	25011	U	Nickel Compounds	9.10E-05	1.36E-04	1.41E-04	2.15E-04	4.10E-04	4.24E-04	1.18E-03	1.54E-03	3.07E-06	2.77E-04	1.23E-04	7.88E-06	0.00E+00
Massachusetts	Franklin	25011	U	Perchloroethylene	1.56E-01	1.71E-01	1.74E-01	2.01E-01	2.62E-01	2.59E-01	5.44E-01	6.65E-01	4.23E-03	1.17E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Franklin	25011	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Franklin	25011	U	Polycyclic Organic Matter	9.62E-03	9.67E-03	1.27E-02	1.99E-02	3.17E-02	3.61E-02	7.97E-02	1.16E-01	1.52E-07	3.16E-02	1.46E-04	9.17E-06	0.00E+00
Massachusetts	Franklin	25011	U	7-PAH	8.25E-04	9.66E-04	1.05E-03	1.43E-03	2.08E-03	2.42E-03	4.88E-03	6.26E-03	4.22E-08	2.01E-03	6.50E-05	4.09E-06	0.00E+00
Massachusetts	Franklin	25011	U	Propylene Dichloride	6.14E-05	6.48E-05	9.36E-05	1.30E-04	1.22E-04	1.51E-04	1.57E-04	1.90E-04	6.15E-05	6.06E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Quinoline	3.58E-08	5.32E-08	5.85E-08	7.75E-08	8.49E-08	1.18E-07	1.29E-07	1.49E-07	0.00E+00	8.49E-08	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	1,1,2,2-Tetrachloroethane	5.52E-04	5.83E-04	8.45E-04	1.18E-03	1.10E-03	1.36E-03	1.42E-03	1.71E-03	5.64E-04	5.38E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Franklin	25011	U	Trichloroethylene	9.37E-02	1.05E-01	1.08E-01	1.28E-01	1.86E-01	1.81E-01	4.54E-01	5.50E-01	2.53E-03	1.03E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Franklin	25011	U	Vinyl Chloride	1.37E-03	1.45E-03	2.10E-03	2.91E-03	2.74E-03	3.37E-03	3.55E-03	4.28E-03	1.39E-03	1.35E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Acetaldehyde	4.08E-01	5.05E-01	6.36E-01	7.34E-01	7.02E-01	7.88E-01	8.23E-01	8.45E-01	2.92E-05	5.31E-02	4.32E-01	2.17E-01	0.00E+00
Massachusetts	Hampden	25013	U	Acrolein	6.06E-02	7.36E-02	8.32E-02	9.25E-02	9.32E-02	1.04E-01	1.15E-01	1.17E-01	1.49E-05	1.81E-02	5.44E-02	2.06E-02	0.00E+00
Massachusetts	Hampden	25013	U	Acrylonitrile	2.37E-03	2.85E-03	4.08E-03	6.03E-03	9.99E-03	9.50E-03	1.47E-02	2.09E-02	7.04E-03	2.94E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Arsenic Compounds	1.83E-05	3.17E-05	4.78E-05	6.93E-05	7.14E-05	9.03E-05	1.19E-04	1.31E-04	2.13E-05	4.94E-05	7.21E-07	5.70E-09	0.00E+00
Massachusetts	Hampden	25013	U	Benzene	8.81E-01	1.01E+00	1.16E+00	1.28E+00	1.30E+00	1.46E+00	1.62E+00	1.70E+00	1.82E-02	4.97E-02	5.97E-01	1.59E-01	4.80E-01
Massachusetts	Hampden	25013	U	Beryllium Compounds	3.94E-06	6.53E-06	1.05E-05	1.43E-05	1.45E-05	1.79E-05	2.30E-05	2.59E-05	1.08E-06	1.34E-05	0.00E+00	1.12E-12	0.00E+00
Massachusetts	Hampden	25013	U	1,3-Butadiene	2.32E-02	2.48E-02	4.03E-02	5.10E-02	5.49E-02	6.92E-02	8.41E-02	9.97E-02	0.00E+00	1.95E-03	4.34E-02	9.54E-03	0.00E+00
Massachusetts	Hampden	25013	U	Cadmium Compounds	2.06E-05	3.16E-05	4.81E-05	6.96E-05	8.07E-05	9.11E-05	1.22E-04	1.46E-04	3.88E-06	7.68E-05	0.00E+00	1.56E-11	0.00E+00
Massachusetts	Hampden	25013	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	1.29E-05	5.86E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Hampden	25013	U	Chloroform	8.41E-02	8.46E-02	8.55E-02	8.65E-02	8.73E-02	8.74E-02	8.91E-02	8.99E-02	3.91E-04	3.86E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Hampden	25013	U	Chromium Compounds	1.19E-03	1.44E-03	2.21E-03	3.18E-03	3.86E-03	4.77E-03	7.62E-03	9.32E-03	2.05E-05	3.74E-03	4.91E-05	5.82E-05	0.00E+00
Massachusetts	Hampden	25013	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	1,3-Dichloropropene	2.81E-02	4.09E-02	6.79E-02	9.22E-02	9.99E-02	1.17E-01	1.80E-01	2.04E-01	0.00E+00	9.99E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Diesel Particulate Matter	1.63E+00	1.72E+00	1.81E+00	1.92E+00	1.97E+00	2.13E+00	2.31E+00	2.39E+00	0.00E+00	0.00E+00	7.38E-01	1.23E+00	***
Massachusetts	Hampden	25013	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	7.71E-03	7.71E-03	3.94E-06	2.28E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Hampden	25013	U	Ethylene Dichloride	6.13E-02	6.14E-02	6.15E-02	6.17E-02	6.22E-02	6.22E-02	6.28E-02	6.35E-02	8.53E-04	3.57E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Hampden	25013	U	Ethylene Oxide	7.21E-04	1.06E-03	1.86E-03	2.54E-03	2.74E-03	3.28E-03	4.67E-03	5.16E-03	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Formaldehyde	7.78E-01	9.02E-01	9.80E-01	1.07E+00	1.07E+0								

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Hampden	25013	U	Lead Compounds	5.50E-04	6.40E-04	1.16E-03	1.74E-03	1.78E-03	2.13E-03	2.55E-03	2.94E-03	3.12E-05	9.09E-04	6.84E-05	7.67E-04	0.00E+00
Massachusetts	Hampden	25013	U	Manganese Compounds	4.78E-04	7.09E-04	1.15E-03	1.52E-03	1.55E-03	1.85E-03	2.65E-03	2.80E-03	2.62E-05	1.44E-03	1.97E-05	6.68E-05	0.00E+00
Massachusetts	Hampden	25013	U	Mercury Compounds	1.66E-03	1.73E-03	1.85E-03	1.97E-03	2.10E-03	2.12E-03	2.34E-03	2.51E-03	6.37E-05	5.17E-04	6.44E-07	1.64E-05	1.50E-03
Massachusetts	Hampden	25013	U	Methylene Chloride	2.85E-01	3.50E-01	4.51E-01	5.93E-01	6.43E-01	7.75E-01	9.83E-01	1.18E+00	4.27E-02	4.51E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Hampden	25013	U	Nickel Compounds	3.71E-04	6.00E-04	8.99E-04	1.18E-03	1.23E-03	1.48E-03	1.99E-03	2.16E-03	1.89E-05	1.14E-03	3.80E-05	2.91E-05	0.00E+00
Massachusetts	Hampden	25013	U	Perchloroethylene	2.41E-01	2.78E-01	3.83E-01	4.94E-01	5.13E-01	6.38E-01	7.56E-01	8.42E-01	3.36E-02	3.39E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Hampden	25013	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Hampden	25013	U	Polycyclic Organic Matter	2.50E-02	3.83E-02	5.65E-02	7.46E-02	7.97E-02	9.21E-02	1.40E-01	1.51E-01	1.00E-06	7.94E-02	2.78E-04	4.10E-05	0.00E+00
Massachusetts	Hampden	25013	U	7-PAH	1.69E-03	2.45E-03	3.37E-03	4.27E-03	4.57E-03	5.34E-03	7.61E-03	8.42E-03	9.05E-07	4.43E-03	1.25E-04	1.52E-05	0.00E+00
Massachusetts	Hampden	25013	U	Propylene Dichloride	1.45E-04	1.75E-04	2.50E-04	3.67E-04	6.06E-04	5.85E-04	9.04E-04	1.26E-03	4.26E-04	1.80E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Quinoline	2.88E-07	4.18E-07	5.37E-07	7.65E-07	9.14E-07	1.12E-06	1.73E-06	2.17E-06	0.00E+00	9.14E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	1,1,2,2-Tetrachloroethane	1.26E-03	1.54E-03	2.20E-03	3.28E-03	5.42E-03	5.13E-03	7.97E-03	1.14E-02	3.91E-03	1.52E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampden	25013	U	Trichloroethylene	1.45E-01	1.67E-01	2.23E-01	2.90E-01	3.25E-01	3.99E-01	5.23E-01	6.25E-01	7.95E-03	2.36E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Hampden	25013	U	Vinyl Chloride	3.37E-03	4.09E-03	5.86E-03	8.52E-03	1.39E-02	1.38E-02	2.13E-02	2.83E-02	9.62E-03	4.24E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Acetaldehyde	2.07E-01	2.67E-01	3.29E-01	4.09E-01	4.24E-01	5.21E-01	5.86E-01	6.12E-01	1.41E-05	3.08E-02	2.12E-01	1.81E-01	0.00E+00
Massachusetts	Hampshire	25015	U	Acrolein	3.65E-02	3.86E-02	4.52E-02	6.02E-02	5.87E-02	7.14E-02	7.36E-02	8.04E-02	7.16E-06	1.33E-02	3.21E-02	1.33E-02	0.00E+00
Massachusetts	Hampshire	25015	U	Acrylonitrile	2.34E-03	3.43E-03	4.21E-03	5.18E-03	2.70E-02	7.51E-03	1.17E-02	1.32E-01	1.85E-02	8.49E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Arsenic Compounds	1.09E-05	1.38E-05	2.39E-05	4.19E-05	4.33E-05	5.75E-05	6.71E-05	1.09E-04	1.03E-05	3.24E-05	6.19E-07	3.28E-09	0.00E+00
Massachusetts	Hampshire	25015	U	Benzene	6.82E-01	7.18E-01	7.85E-01	8.91E-01	9.71E-01	1.02E+00	1.19E+00	1.59E+00	4.78E-02	6.75E-02	2.75E-01	1.01E-01	4.80E-01
Massachusetts	Hampshire	25015	U	Beryllium Compounds	1.95E-06	2.60E-06	4.56E-06	7.21E-06	8.73E-06	1.05E-05	1.57E-05	2.00E-05	5.28E-07	8.20E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	1,3-Butadiene	9.49E-03	1.21E-02	1.60E-02	2.39E-02	2.64E-02	3.40E-02	4.84E-02	5.31E-02	0.00E+00	2.73E-03	1.78E-02	5.86E-03	0.00E+00
Massachusetts	Hampshire	25015	U	Cadmium Compounds	1.57E-05	2.23E-05	3.05E-05	5.59E-05	9.42E-05	7.98E-05	1.23E-04	2.74E-04	3.17E-06	9.10E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.80E-01	8.81E-01	8.84E-01	3.39E-05	8.51E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Hampshire	25015	U	Chloroform	8.39E-02	8.46E-02	8.48E-02	8.58E-02	8.90E-02	8.63E-02	8.70E-02	1.07E-01	7.97E-04	5.24E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Hampshire	25015	U	Chromium Compounds	3.47E-04	3.97E-04	4.47E-04	6.52E-04	6.73E-04	8.85E-04	9.57E-04	1.14E-03	1.37E-05	5.78E-04	4.38E-05	3.77E-05	0.00E+00
Massachusetts	Hampshire	25015	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	1,3-Dichloropropene	1.48E-02	2.08E-02	3.37E-02	4.55E-02	6.11E-02	7.82E-02	9.42E-02	1.50E-01	0.00E+00	6.11E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Diesel Particulate Matter	1.29E+00	1.39E+00	1.43E+00	1.55E+00	1.60E+00	1.74E+00	1.90E+00	2.06E+00	0.00E+00	0.00E+00	5.55E-01	1.04E+00	***
Massachusetts	Hampshire	25015	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.72E-03	7.71E-03	7.71E-03	7.77E-03	1.03E-05	5.41E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Hampshire	25015	U	Ethylene Dichloride	6.13E-02	6.14E-02	6.15E-02	6.16E-02	6.43E-02	6.19E-02	6.24E-02	7.69E-02	2.24E-03	1.03E-03	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Hampshire	25015	U	Ethylene Oxide	3.89E-04	4.73E-04	7.31E-04	1.13E-03	1.86E-03	2.00E-03	3.74E-03	7.49E-03	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Formaldehyde	5.44E-01	5.85E-01	6.53E-01	7.92E-01	7.82E-01	8.72E-01	9.68E-01	1.12E+00	3.61E-02	5.34E-02	2.16E-01	2.27E-01	2.50E-01
Massachusetts	Hampshire	25015	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.32E-05	0.00E+00	4.68E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Hampshire	25015	U	Hydrazine	8.76E-09	1.54E-08	7.89E-08	1.83E-07	2.87E-07	3.19E-07	6.18E-07	1.40E-06	0.00E+00	2.87E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Lead Compounds	2.18E-04	3.17E-04	7.51E-04	1.24E-03	1.62E-03	1.50E-03	1.84E-03	4.25E-03	3.50E-05	9.88E-04	6.03E-05	5.36E-04	0.00E+00
Massachusetts	Hampshire	25015	U	Manganese Compounds	2.80E-04	3.16E-04	5.64E-04	7.50E-04	9.11E-04	1.15E-03	1.32E-03	2.00E-03	1.25E-05	8.38E-04	1.70E-05	4.30E-05	0.00E+00
Massachusetts	Hampshire	25015	U	Mercury Compounds	1.63E-03	1.63E-03	1.69E-03	1.82E-03	2.22E-03	1.88E-03	2.01E-03	4.33E-03	3.83E-05	6.73E-04	5.72E-07	1.07E-05	1.50E-03
Massachusetts	Hampshire	25015	U	Methylene Chloride	2.17E-01	2.48E-01	2.81E-01	4.12E-01	5.58E-01	5.59E-01	9.39E-01	1.14E+00	7.46E-02	3.34E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Hampshire	25015	U	Nickel Compounds	1.48E-04	1.87E-04	2.44E-04	4.97E-04	4.94E-04	6.27E-04	7.54E-04	1.16E-03	1.24E-05	4.30E-04	3.37E-05	1.86E-05	0.00E+00
Massachusetts	Hampshire	25015	U	Perchloroethylene	1.90E-01	2.17E-01	2.36E-01	3.35E-01	4.19E-01	4.40E-01	6.41E-01	8.89E-01	4.19E-02	2.37E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Hampshire	25015	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Hampshire	25015	U	Polycyclic Organic Matter	1.49E-02	1.83E-02	2.91E-02	4.01E-02	5.13E-02	6.50E-02	7.55E-02	1.13E-01	5.06E-07	5.11E-02	2.05E-04	2.75E-05	0.00E+00
Massachusetts	Hampshire	25015	U	7-PAH	1.13E-03	1.33E-03	1.99E-03	2.65E-03	3.09E-03	3.76E-03	4.56E-03	6.21E-03	1.64E-07	2.99E-03	9.13E-05	1.01E-05	0.00E+00
Massachusetts	Hampshire	25015	U	Propylene Dichloride	1.42E-04	2.08E-04	2.56E-04	3.16E-04	1.64E-03	4.55E-04	7.13E-04	7.99E-03	1.12E-03	5.17E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Quinoline	1.36E-07	1.70E-07	3.73E-07	7.69E-07	9.78E-07	1.17E-06	1.94E-06	3.71E-06	0.00E+00	9.78E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	1,1,2,2-Tetrachloroethane	1.28E-03	1.88E-03	2.29E-03	2.83E-03	1.48E-02	4.09E-03	6.37E-03	7.28E-02	1.03E-02	4.58E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Hampshire	25015	U	Trichloroethylene	1.14E-01	1.25E-01	1.50E-01	2.14E-01	2.92E-01	3.08E-01	4.80E-01	6.69E-01	2.11E-02	1.90E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Hampshire	25015	U	Vinyl Chloride	3.20E-03	4.69E-03	5.83E-03	7.26E-03	3.69E-02	1.03E-02	1.62E-02	1.80E-01	2.53E-02	1.16E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Acetaldehyde	6.20E-01	7.02E-01	9.15E-01	9.85E-01	1.02E+00	1.08E+00	1.17E+00	1.21E+00	4.34E-06	5.39E-02	6.11E-01	3.57E-01	0.00E+00
Massachusetts	Middlesex	25017	U	Acrolein	8.46E-02	9.55E-02	1.23E-01	1.35E-01	1.43E-01	1.56E-01	1.68E-01	1.83E-01	2.21E-06	1.77E-02	7.97E-02	4.58E-02	0.00E+00
Massachusetts	Middlesex	25017	U	Acrylonitrile	5.86E-03	6.06E-03	6.86E-03	8.05E-03	1.09E-02	9.75E-03	1.19E-02	1.36E-02	9.34E-03	1.57E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Arsenic Compounds	2.61E-05	3.01E-05	4.95E-05	7.28E-05	7.62E-05	9.76E-05	1.24E-04	1.41E-04	4.85E-06	6.79E-05	8.43E-07	2.54E-06	0.00E+00
Massachusetts	Middlesex	25017	U	Benzene	1.17E+00	1.25E+00	1.51E+00	1.71E+00	1.81E+00	2.11E+00	2.43E+00	2.63E+00	2.41E-02	4.69E-02	9.23E-01	3.40E-01	4.80E-01
Massachusetts	Middlesex	25017	U	Beryllium Compounds	6.41E-06	8.30E-06	1.33E-05	1.97E-05	2.08E-05	2.81E-05	3.57E-05	3.89E-05	1.79E-07	2.06E-05	0.00E+00	2.10E-08	0.00E+00
Massachusetts	Middlesex	25017	U	1,3-Butadiene	3.50E-02	3.97E-02	5.45E-02	7.37E-02	8.80E-02								

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Middlesex	25017	U	Chloroform	8.58E-02	8.60E-02	8.66E-02	8.71E-02	8.79E-02	8.77E-02	8.83E-02	8.87E-02	9.96E-05	4.81E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Middlesex	25017	U	Chromium Compounds	8.87E-04	1.01E-03	1.37E-03	1.94E-03	2.33E-03	2.57E-03	3.95E-03	5.32E-03	5.54E-06	2.12E-03	5.28E-05	1.52E-04	0.00E+00
Massachusetts	Middlesex	25017	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	1,3-Dichloropropene	5.15E-02	6.06E-02	9.13E-02	1.27E-01	1.59E-01	2.20E-01	3.00E-01	3.35E-01	0.00E+00	1.59E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Diesel Particulate Matter	1.89E+00	1.97E+00	2.19E+00	2.40E+00	2.73E+00	2.69E+00	3.15E+00	3.35E+00	0.00E+00	0.00E+00	8.39E-01	1.89E+00	***
Massachusetts	Middlesex	25017	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	7.71E-03	7.71E-03	7.71E-03	5.23E-06	1.67E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Middlesex	25017	U	Ethylene Dichloride	6.17E-02	6.17E-02	6.18E-02	6.20E-02	6.23E-02	6.22E-02	6.24E-02	6.27E-02	1.13E-03	1.91E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Middlesex	25017	U	Ethylene Oxide	1.42E-03	1.67E-03	2.59E-03	3.61E-03	3.93E-03	4.52E-03	6.35E-03	7.99E-03	7.24E-10	3.93E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Formaldehyde	1.08E+00	1.17E+00	1.39E+00	1.55E+00	1.61E+00	1.66E+00	1.86E+00	1.96E+00	5.95E-04	5.49E-02	6.78E-01	6.26E-01	2.50E-01
Massachusetts	Middlesex	25017	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.45E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Middlesex	25017	U	Hydrazine	6.51E-08	1.52E-07	2.98E-07	4.21E-07	5.44E-07	6.77E-07	1.10E-06	1.35E-06	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Lead Compounds	1.16E-03	1.35E-03	1.62E-03	1.92E-03	2.27E-03	2.53E-03	3.39E-03	3.91E-03	1.41E-04	1.14E-03	7.35E-05	9.10E-04	0.00E+00
Massachusetts	Middlesex	25017	U	Manganese Compounds	7.55E-04	8.67E-04	1.28E-03	1.78E-03	2.12E-03	2.88E-03	3.77E-03	4.30E-03	5.98E-06	1.93E-03	2.15E-05	1.64E-04	0.00E+00
Massachusetts	Middlesex	25017	U	Mercury Compounds	1.95E-03	1.99E-03	2.08E-03	2.22E-03	2.31E-03	2.31E-03	2.39E-03	2.48E-03	1.71E-04	6.00E-04	7.17E-07	3.95E-05	1.50E-03
Massachusetts	Middlesex	25017	U	Methylene Chloride	3.88E-01	4.40E-01	6.15E-01	8.35E-01	8.82E-01	1.05E+00	1.29E+00	1.48E+00	4.71E-02	6.85E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Middlesex	25017	U	Nickel Compounds	6.70E-04	7.55E-04	1.23E-03	1.86E-03	2.09E-03	2.48E-03	3.48E-03	4.46E-03	1.04E-05	1.89E-03	4.11E-05	1.54E-04	0.00E+00
Massachusetts	Middlesex	25017	U	Perchloroethylene	2.98E-01	3.42E-01	4.73E-01	6.31E-01	6.61E-01	7.91E-01	9.90E-01	1.11E+00	1.72E-02	5.04E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Middlesex	25017	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Middlesex	25017	U	Polycyclic Organic Matter	4.07E-02	4.75E-02	7.12E-02	9.70E-02	1.16E-01	1.56E-01	2.13E-01	2.36E-01	5.75E-07	1.16E-01	4.10E-04	8.21E-05	0.00E+00
Massachusetts	Middlesex	25017	U	7-PAH	2.39E-03	2.55E-03	2.87E-03	5.23E-03	6.21E-03	8.29E-03	1.11E-02	1.24E-02	1.60E-06	5.98E-03	1.90E-04	3.29E-05	0.00E+00
Massachusetts	Middlesex	25017	U	Propylene Dichloride	3.59E-04	3.70E-04	4.19E-04	4.91E-04	6.62E-04	5.94E-04	7.22E-04	8.41E-04	5.66E-04	9.61E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Quinoline	2.34E-07	2.90E-07	5.55E-07	9.07E-07	1.14E-06	1.34E-06	1.99E-06	2.97E-06	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	1,1,2,2-Tetrachloroethane	3.15E-03	3.25E-03	3.72E-03	4.34E-03	5.91E-03	5.27E-03	6.48E-03	7.32E-03	5.18E-03	7.24E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Middlesex	25017	U	Trichloroethylene	1.97E-01	2.54E-01	3.38E-01	4.71E-01	5.01E-01	5.98E-01	7.67E-01	9.02E-01	4.08E-02	3.79E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Middlesex	25017	U	Vinyl Chloride	8.15E-03	8.36E-03	9.46E-03	1.11E-02	1.49E-02	1.34E-02	1.63E-02	1.89E-02	1.28E-02	2.15E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Acetaldehyde	9.70E-02	9.70E-02	1.03E-01	1.28E-01	1.65E-01	2.27E-01	3.07E-01	3.07E-01	0.00E+00	3.86E-02	1.96E-02	1.07E-01	0.00E+00
Massachusetts	Nantucket	25019	R	Acrolein	1.75E-02	1.75E-02	1.90E-02	2.55E-02	5.01E-02	8.11E-02	1.32E-01	1.32E-01	0.00E+00	3.36E-02	3.68E-03	1.28E-02	0.00E+00
Massachusetts	Nantucket	25019	R	Acrylonitrile	5.85E-04	5.85E-04	6.02E-04	7.22E-04	7.64E-04	8.29E-04	1.03E-03	1.03E-03	3.54E-05	7.29E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Arsenic Compounds	2.80E-06	2.80E-06	3.13E-06	4.86E-06	7.46E-06	1.18E-05	1.73E-05	1.73E-05	0.00E+00	5.87E-06	1.59E-06	3.32E-10	0.00E+00
Massachusetts	Nantucket	25019	R	Benzene	7.37E-01	7.37E-01	7.49E-01	8.06E-01	9.05E-01	1.06E+00	1.27E+00	1.27E+00	9.13E-05	1.22E-01	3.72E-02	2.66E-01	4.80E-01
Massachusetts	Nantucket	25019	R	Beryllium Compounds	6.62E-07	6.62E-07	7.55E-07	1.22E-06	2.01E-06	3.26E-06	4.92E-06	4.92E-06	0.00E+00	2.01E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	1,3-Butadiene	1.48E-02	1.48E-02	1.78E-02	2.60E-02	5.56E-02	9.34E-02	1.55E-01	1.55E-01	0.00E+00	3.84E-02	3.41E-03	1.38E-02	0.00E+00
Massachusetts	Nantucket	25019	R	Cadmium Compounds	2.18E-06	2.18E-06	2.34E-06	3.23E-06	4.37E-06	6.40E-06	8.85E-06	8.85E-06	0.00E+00	4.37E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	6.48E-08	3.99E-05	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Nantucket	25019	R	Chloroform	8.32E-02	8.32E-02	8.32E-02	8.32E-02	8.33E-02	8.34E-02	8.34E-02	8.34E-02	3.77E-07	2.78E-04	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Nantucket	25019	R	Chromium Compounds	6.06E-05	6.06E-05	6.53E-05	9.79E-05	1.25E-04	1.84E-04	2.42E-04	2.42E-04	0.00E+00	6.44E-06	9.64E-05	2.19E-05	0.00E+00
Massachusetts	Nantucket	25019	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	1,3-Dichloropropene	5.91E-03	5.91E-03	6.73E-03	1.20E-02	1.59E-02	2.51E-02	3.39E-02	3.39E-02	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Diesel Particulate Matter	6.73E-01	6.73E-01	6.96E-01	7.91E-01	8.68E-01	1.04E+00	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.56E-01	7.12E-01	***
Massachusetts	Nantucket	25019	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	1.98E-08	4.01E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Nantucket	25019	R	Ethylene Dichloride	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	4.27E-06	8.74E-05	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Nantucket	25019	R	Ethylene Oxide	1.21E-04	1.21E-04	1.39E-04	1.99E-04	4.33E-04	7.26E-04	1.21E-03	1.21E-03	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Formaldehyde	3.84E-01	3.84E-01	4.06E-01	4.76E-01	7.06E-01	1.01E+00	1.49E+00	1.49E+00	0.00E+00	2.84E-01	2.84E-02	1.43E-01	2.50E-01
Massachusetts	Nantucket	25019	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	3.13E-09	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Nantucket	25019	R	Hydrazine	2.09E-11	2.09E-11	2.14E-11	2.26E-11	2.33E-11	2.52E-11	2.71E-11	2.71E-11	0.00E+00	2.33E-11	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Nantucket	25019	R	Lead Compounds	6.56E-04	6.56E-04	6.57E-04	7.23E-04	7.92E-04	9.27E-04	1.07E-03	1.07E-03	0.00E+00	1.04E-04	1.36E-04	5.52E-04	0.00E+00
Massachusetts	Nantucket	25019	R	Manganese Compounds	8.98E-05	8.98E-05	9.94E-05	1.64E-04	2.18E-04	3.37E-04	4.53E-04	4.53E-04	0.00E+00	1.55E-04	4.04E-05	2.28E-05	0.00E+00
Massachusetts	Nantucket	25019	R	Mercury Compounds	1.52E-03	1.52E-03	1.52E-03	1.53E-03	1.53E-03	1.55E-03	1.56E-03	1.56E-03	9.76E-09	2.53E-05	1.33E-06	6.24E-06	1.50E-03
Massachusetts	Nantucket	25019	R	Methylene Chloride	1.71E-01	1.71E-01	1.74E-01	1.88E-01	2.18E-01	2.62E-01	3.26E-01	3.26E-01	1.23E-04	6.79E-02	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Nantucket	25019	R	Nickel Compounds	6.32E-05	6.32E-05	6.98E-05	1.03E-04	1.58E-04	2.47E-04	3.64E-04	3.64E-04	0.00E+00	7.33E-05	7.51E-05	9.79E-06	0.00E+00
Massachusetts	Nantucket	25019	R	Perchloroethylene	1.53E-01	1.53E-01	1.55E-01	1.63E-01	1.83E-01	2.11E-01	2.53E-01	2.53E-01	6.29E-05	4.31E-02	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Nantucket	25019	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Nantucket	25019	R	Polycyclic Organic Matter	4.68E-03	4.68E-03	5.37E-03	9.01E-03	1.40E-02	2.27E-02	3.34E-02	3.34E-02	0.00E+00	1.39E-02	3.08E-05	7.94E-05	0.00E+00
Massachusetts	Nantucket	25019	R	7-PAH	3.47E-04	3.47E-04	4.06E-04	6.55E-04	1.25E-03	2.10E-03	3.36E-03	3.36E-03	0.00E+00	1.20E-03	1.38E-05	3.73E-05	0.00E+00
Massachusetts	Nantucket	25019	R	Propylene Dichloride	3.52E-05	3.52E-05	3.61E-05	4.33E-05	4.59E-05	5.56E-05	6.17E-05	6.17E-05					

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration

Estimated Annual Average Ambient Concentrations ($\mu\text{g}/\text{m}^3$) for Massachusetts

State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Nantucket	25019	R	Trichloroethylene	9.20E-02	9.20E-02	9.41E-02	1.01E-01	1.20E-01	1.46E-01	1.87E-01	1.87E-01	3.77E-05	3.90E-02	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Nantucket	25019	R	Vinyl Chloride	7.88E-04	7.88E-04	8.10E-04	9.71E-04	1.03E-03	1.25E-03	1.38E-03	1.38E-03	4.83E-05	9.80E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Norfolk	25021	U	Acetaldehyde	6.54E-01	7.21E-01	8.32E-01	9.07E-01	9.13E-01	9.94E-01	1.12E+00	1.17E+00	1.86E-05	5.14E-02	5.37E-01	3.25E-01	0.00E+00
Massachusetts	Norfolk	25021	U	Acrolein	9.48E-02	1.03E-01	1.18E-01	1.32E-01	1.35E-01	1.51E-01	1.73E-01	1.88E-01	6.54E-06	1.44E-02	7.28E-02	4.83E-02	0.00E+00
Massachusetts	Norfolk	25021	U	Acrylonitrile	5.70E-03	5.82E-03	6.56E-03	7.82E-03	7.87E-03	8.69E-03	9.77E-03	1.04E-02	4.45E-03	1.42E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Norfolk	25021	U	Arsenic Compounds	3.49E-05	4.14E-05	5.72E-05	6.99E-05	7.42E-05	8.79E-05	1.07E-04	1.21E-04	8.39E-06	5.77E-05	7.04E-07	7.38E-06	0.00E+00
Massachusetts	Norfolk	25021	U	Benzene	1.20E+00	1.27E+00	1.40E+00	1.50E+00	1.58E+00	1.70E+00	2.03E+00	2.20E+00	1.67E-02	3.77E-02	7.40E-01	3.01E-01	4.80E-01
Massachusetts	Norfolk	25021	U	Beryllium Compounds	7.18E-06	8.41E-06	1.21E-05	1.46E-05	1.62E-05	1.80E-05	2.64E-05	3.24E-05	3.70E-07	1.58E-05	0.00E+00	6.02E-08	0.00E+00
Massachusetts	Norfolk	25021	U	1,3-Butadiene	3.70E-02	4.02E-02	4.75E-02	5.91E-02	6.68E-02	7.69E-02	1.09E-01	1.29E-01	0.00E+00	1.42E-03	4.88E-02	1.66E-02	0.00E+00
Massachusetts	Norfolk	25021	U	Cadmium Compounds	5.57E-05	6.16E-05	7.16E-05	8.96E-05	8.94E-05	1.00E-04	1.25E-04	1.36E-04	2.61E-06	8.59E-05	0.00E+00	8.38E-07	0.00E+00
Massachusetts	Norfolk	25021	U	Carbon Tetrachloride	8.80E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	1.18E-05	6.35E-04	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Norfolk	25021	U	Chloroform	8.61E-02	8.64E-02	8.68E-02	8.72E-02	8.73E-02	8.77E-02	8.84E-02	8.89E-02	6.98E-05	4.21E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Norfolk	25021	U	Chromium Compounds	7.83E-04	1.02E-03	1.44E-03	1.72E-03	2.12E-03	2.15E-03	3.13E-03	4.84E-03	6.09E-06	1.92E-03	4.41E-05	1.50E-04	0.00E+00
Massachusetts	Norfolk	25021	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Norfolk	25021	U	1,3-Dichloropropene	6.07E-02	6.53E-02	8.26E-02	1.00E-01	1.19E-01	1.27E-01	2.11E-01	2.80E-01	0.00E+00	1.19E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Norfolk	25021	U	Diesel Particulate Matter	1.84E+00	1.91E+00	2.12E+00	2.41E+00	2.57E+00	2.83E+00	3.43E+00	3.91E+00	0.00E+00	0.00E+00	7.23E-01	1.85E+00	***
Massachusetts	Norfolk	25021	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	7.71E-03	3.61E-06	1.25E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Norfolk	25021	U	Ethylene Dichloride	6.17E-02	6.17E-02	6.18E-02	6.19E-02	6.19E-02	6.20E-02	6.22E-02	6.22E-02	7.80E-04	1.58E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Norfolk	25021	U	Ethylene Oxide	1.48E-03	1.99E-03	2.63E-03	3.41E-									

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Plymouth	25023	U	Manganese Compounds	4.76E-04	5.49E-04	7.70E-04	1.04E-03	1.16E-03	1.50E-03	1.78E-03	2.58E-03	1.60E-05	1.04E-03	1.18E-05	9.17E-05	0.00E+00
Massachusetts	Plymouth	25023	U	Mercury Compounds	1.71E-03	1.73E-03	1.78E-03	1.88E-03	1.87E-03	1.95E-03	2.01E-03	2.04E-03	2.27E-05	3.30E-04	4.01E-07	1.98E-05	1.50E-03
Massachusetts	Plymouth	25023	U	Methylene Chloride	2.98E-01	3.25E-01	3.75E-01	4.70E-01	5.21E-01	6.31E-01	7.69E-01	8.39E-01	2.52E-02	3.46E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Plymouth	25023	U	Nickel Compounds	2.94E-04	3.93E-04	5.14E-04	8.77E-04	8.95E-04	1.25E-03	1.47E-03	1.65E-03	1.99E-05	6.99E-04	2.31E-05	1.53E-04	0.00E+00
Massachusetts	Plymouth	25023	U	Perchloroethylene	2.45E-01	2.63E-01	2.99E-01	3.75E-01	4.10E-01	4.93E-01	5.95E-01	6.37E-01	7.77E-03	2.62E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Plymouth	25023	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Plymouth	25023	U	Polycyclic Organic Matter	2.48E-02	2.83E-02	4.22E-02	5.61E-02	6.24E-02	7.86E-02	9.44E-02	1.41E-01	5.20E-06	6.21E-02	2.42E-04	7.29E-05	0.00E+00
Massachusetts	Plymouth	25023	U	7-PAH	1.61E-03	1.83E-03	2.50E-03	3.24E-03	3.56E-03	4.38E-03	5.21E-03	7.62E-03	8.64E-07	3.43E-03	1.09E-04	2.59E-05	0.00E+00
Massachusetts	Plymouth	25023	U	Propylene Dichloride	2.04E-04	2.11E-04	2.63E-04	3.12E-04	3.06E-04	3.49E-04	3.76E-04	4.22E-04	2.01E-04	1.04E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Plymouth	25023	U	Quinoline	1.00E-07	1.16E-07	1.64E-07	2.44E-07	2.62E-07	3.42E-07	4.10E-07	4.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Plymouth	25023	U	1,1,2,2-Tetrachloroethane	1.84E-03	1.90E-03	2.37E-03	2.80E-03	2.75E-03	3.12E-03	3.37E-03	3.79E-03	1.85E-03	9.00E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Plymouth	25023	U	Trichloroethylene	1.80E-01	1.96E-01	2.30E-01	2.84E-01	3.28E-01	4.00E-01	5.23E-01	5.84E-01	4.40E-02	2.03E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Plymouth	25023	U	Vinyl Chloride	4.54E-03	4.70E-03	5.85E-03	7.00E-03	6.83E-03	7.81E-03	8.41E-03	9.37E-03	4.55E-03	2.28E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Acetaldehyde	1.10E+00	1.13E+00	1.22E+00	1.38E+00	1.48E+00	1.58E+00	1.79E+00	2.04E+00	8.81E-06	8.13E-02	7.79E-01	6.18E-01	0.00E+00
Massachusetts	Suffolk	25025	U	Acrolein	1.52E-01	1.58E-01	1.71E-01	1.99E-01	2.17E-01	2.30E-01	2.82E-01	3.31E-01	4.48E-06	2.28E-02	9.46E-02	9.96E-02	0.00E+00
Massachusetts	Suffolk	25025	U	Acrylonitrile	5.71E-03	5.76E-03	5.92E-03	6.29E-03	6.50E-03	6.80E-03	7.31E-03	7.62E-03	4.95E-03	1.55E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Arsenic Compounds	8.89E-05	9.66E-05	1.22E-04	1.53E-04	1.70E-04	1.99E-04	2.49E-04	3.06E-04	8.80E-06	1.25E-04	1.40E-06	3.50E-05	0.00E+00
Massachusetts	Suffolk	25025	U	Benzene	1.83E+00	1.91E+00	2.16E+00	2.43E+00	2.53E+00	2.76E+00	3.24E+00	3.72E+00	1.28E-02	9.43E-02	1.48E+00	4.61E-01	4.80E-01
Massachusetts	Suffolk	25025	U	Beryllium Compounds	2.16E-05	2.26E-05	2.82E-05	3.30E-05	3.61E-05	4.24E-05	5.44E-05	5.88E-05	3.53E-07	3.54E-05	0.00E+00	3.28E-07	0.00E+00
Massachusetts	Suffolk	25025	U	1,3-Butadiene	8.64E-02	9.39E-02	1.20E-01	1.65E-01	1.63E-01	1.86E-01	2.42E-01	2.87E-01	0.00E+00	3.06E-04	1.55E-01	3.43E-02	0.00E+00
Massachusetts	Suffolk	25025	U	Cadmium Compounds	1.05E-04	1.12E-04	1.34E-04	1.87E-04	2.44E-04	2.71E-04	3.72E-04	4.79E-04	2.83E-06	2.36E-04	0.00E+00	4.59E-06	0.00E+00
Massachusetts	Suffolk	25025	U	Carbon Tetrachloride	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.82E-01	8.82E-01	9.06E-06	1.20E-03	0.00E+00	0.00E+00	8.80E-01
Massachusetts	Suffolk	25025	U	Chloroform	8.73E-02	8.76E-02	8.83E-02	8.97E-02	9.11E-02	9.21E-02	9.43E-02	9.65E-02	5.27E-05	8.07E-03	0.00E+00	0.00E+00	8.30E-02
Massachusetts	Suffolk	25025	U	Chromium Compounds	1.85E-03	1.88E-03	1.96E-03	2.19E-03	2.57E-03	2.84E-03	3.73E-03	4.48E-03	7.34E-06	2.06E-03	8.57E-05	4.19E-04	0.00E+00
Massachusetts	Suffolk	25025	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	1,3-Dichloropropene	1.31E-01	1.46E-01	1.72E-01	2.22E-01	2.38E-01	2.77E-01	3.69E-01	4.06E-01	0.00E+00	2.38E-01	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Diesel Particulate Matter	3.10E+00	3.32E+00	4.24E+00	5.75E+00	7.58E+00	8.37E+00	1.18E+01	1.48E+01	0.00E+00	0.00E+00	1.17E+00	6.41E+00	***
Massachusetts	Suffolk	25025	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.71E-03	2.77E-06	1.56E-06	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Suffolk	25025	U	Ethylene Dichloride	6.17E-02	6.17E-02	6.17E-02	6.18E-02	6.18E-02	6.18E-02	6.19E-02	6.19E-02	5.98E-04	1.84E-04	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Suffolk	25025	U	Ethylene Oxide	5.71E-03	6.66E-03	8.64E-03	1.27E-02	1.47E-02	1.77E-02	2.76E-02	3.23E-02	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Formaldehyde	1.70E+00	1.76E+00	1.92E+00	2.25E+00	2.43E+00	2.55E+00	3.01E+00	3.63E+00	1.66E-04	5.77E-02	9.90E-01	1.13E+00	2.50E-01
Massachusetts	Suffolk	25025	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.29E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Suffolk	25025	U	Hydrazine	2.12E-07	2.26E-07	2.50E-07	3.71E-07	4.81E-07	5.94E-07	1.01E-06	1.08E-06	0.00E+00	4.81E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Lead Compounds	3.92E-03	4.72E-03	7.05E-03	9.91E-03	1.33E-02	1.36E-02	2.69E-02	3.46E-02	1.03E-04	3.25E-03	1.20E-04	9.84E-03	0.00E+00
Massachusetts	Suffolk	25025	U	Manganese Compounds	2.06E-03	2.29E-03	2.62E-03	3.20E-03	3.37E-03	3.83E-03	4.86E-03	5.53E-03	1.09E-05	2.92E-03	3.53E-05	4.06E-04	0.00E+00
Massachusetts	Suffolk	25025	U	Mercury Compounds	2.36E-03	2.45E-03	2.69E-03	3.19E-03	3.92E-03	4.27E-03	5.43E-03	6.30E-03	1.45E-04	2.20E-03	1.16E-06	6.89E-05	1.50E-03
Massachusetts	Suffolk	25025	U	Methylene Chloride	7.94E-01	8.28E-01	9.16E-01	1.07E+00	1.21E+00	1.33E+00	1.81E+00	2.25E+00	2.97E-02	1.03E+00	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Suffolk	25025	U	Nickel Compounds	2.24E-03	2.40E-03	2.93E-03	3.58E-03	4.44E-03	5.06E-03	7.35E-03	9.84E-03	2.13E-05	2.91E-03	6.70E-05	1.44E-03	0.00E+00
Massachusetts	Suffolk	25025	U	Perchloroethylene	6.10E-01	6.44E-01	7.23E-01	8.37E-01	9.39E-01	1.03E+00	1.36E+00	1.68E+00	9.03E-03	7.90E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Suffolk	25025	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Suffolk	25025	U	Polycyclic Organic Matter	9.70E-02	1.11E-01	1.31E-01	1.60E-01	1.69E-01	1.93E-01	2.52E-01	2.91E-01	5.85E-07	1.69E-01	4.22E-04	2.18E-04	0.00E+00
Massachusetts	Suffolk	25025	U	7-PAH	5.12E-03	5.76E-03	6.76E-03	8.30E-03	8.80E-03	1.01E-02	1.30E-02	1.50E-02	2.25E-06	8.55E-03	2.01E-04	4.36E-05	0.00E+00
Massachusetts	Suffolk	25025	U	Propylene Dichloride	3.47E-04	3.49E-04	3.59E-04	3.78E-04	3.90E-04	4.09E-04	4.43E-04	4.62E-04	2.99E-04	9.08E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Quinoline	7.11E-07	7.56E-07	8.04E-07	8.68E-07	1.10E-06	1.17E-06	1.79E-06	2.08E-06	0.00E+00	1.10E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	1,1,2,2-Tetrachloroethane	3.05E-03	3.08E-03	3.13E-03	3.29E-03	3.38E-03	3.52E-03	3.81E-03	3.97E-03	2.74E-03	6.33E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Suffolk	25025	U	Trichloroethylene	4.29E-01	4.48E-01	4.99E-01	5.99E-01	7.16E-01	8.03E-01	1.16E+00	1.50E+00	0.316E-02	6.03E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Suffolk	25025	U	Vinyl Chloride	7.79E-03	7.85E-03	8.00E-03	8.34E-03	8.62E-03	8.99E-03	9.85E-03	1.03E-02	6.76E-03	1.86E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Acetaldehyde	1.89E-01	2.05E-01	2.57E-01	3.13E-01	3.35E-01	4.10E-01	4.80E-01	5.32E-01	1.17E-05	1.52E-02	2.09E-01	1.11E-01	0.00E+00
Massachusetts	Worcester	25027	U	Acrolein	2.85E-02	3.30E-02	4.17E-02	5.14E-02	5.23E-02	6.14E-02	7.28E-02	7.78E-02	1.70E-07	8.45E-03	2.97E-02	1.41E-02	0.00E+00
Massachusetts	Worcester	25027	U	Acrylonitrile	3.48E-03	3.66E-03	4.12E-03	5.04E-03	5.42E-03	6.29E-03	7.35E-03	8.17E-03	4.64E-03	7.83E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Arsenic Compounds	6.88E-06	9.19E-06	1.43E-05	2.53E-05	3.07E-05	4.13E-05	5.86E-05	7.25E-05	4.46E-07	2.96E-05	3.42E-07	3.34E-07	0.00E+00
Massachusetts	Worcester	25027	U	Benzene	6.95E-01	7.29E-01	8.29E-01	9.39E-01	9.59E-01	1.05E+00	1.25E+00	1.29E+00	1.20E-02	2.11E-02	3.23E-01	1.23E-01	4.80E-01
Massachusetts	Worcester	25027	U	Beryllium Compounds	1.53E-06	1.85E-06	3.65E-06	5.90E-06	7.07E-06	9.39E-06	1.45E-05	1.58E-05	1.36E-08	7.05E-06	0.00E+00	2.57E-09	0.00E+00
Massachusetts	Worcester	25027	U	1,3-Butadiene	1.14E-02	1.37E-02	1.95E-02	2.81E-02	3.24E-02	4.22E-02	6.16E-02	6.57E-02	0.00E+00	6.32E-04	2.48E-02	7.02E-03	0.00E+00
Massachusetts	Worcester	25027	U	Cadmium Compounds	1.16E-05	1.35E-05	1.76E-05	2.39E-05	2.								

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Massachusetts	Worcester	25027	U	Chromium Compounds	4.31E-04	5.66E-04	8.92E-04	1.49E-03	2.66E-03	3.34E-03	5.78E-03	8.50E-03	5.29E-07	2.59E-03	2.10E-05	4.67E-05	0.00E+00
Massachusetts	Worcester	25027	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	1,3-Dichloropropene	1.35E-02	1.65E-02	3.25E-02	5.16E-02	5.97E-02	8.10E-02	1.16E-01	1.53E-01	0.00E+00	5.97E-02	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Diesel Particulate Matter	1.44E+00	1.48E+00	1.58E+00	1.68E+00	1.74E+00	1.85E+00	2.06E+00	2.21E+00	0.00E+00	0.00E+00	6.01E-01	1.14E+00	***
Massachusetts	Worcester	25027	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	2.60E-06	5.65E-07	0.00E+00	0.00E+00	7.70E-03
Massachusetts	Worcester	25027	U	Ethylene Dichloride	6.14E-02	6.14E-02	6.15E-02	6.16E-02	6.16E-02	6.17E-02	6.19E-02	6.20E-02	5.60E-04	8.82E-05	0.00E+00	0.00E+00	6.10E-02
Massachusetts	Worcester	25027	U	Ethylene Oxide	4.12E-04	5.21E-04	8.85E-04	1.54E-03	1.85E-03	2.49E-03	3.64E-03	4.41E-03	3.33E-09	1.85E-03	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Formaldehyde	5.09E-01	5.47E-01	6.27E-01	7.03E-01	7.27E-01	8.17E-01	9.32E-01	1.03E+00	4.03E-03	2.42E-02	2.51E-01	1.98E-01	2.50E-01
Massachusetts	Worcester	25027	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.20E-08	0.00E+00	0.00E+00	9.30E-05
Massachusetts	Worcester	25027	U	Hydrazine	9.24E-09	1.70E-08	7.51E-08	1.74E-07	1.65E-06	3.08E-07	8.94E-07	3.93E-06	0.00E+00	1.65E-06	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Lead Compounds	3.34E-04	3.90E-04	6.25E-04	1.07E-03	1.37E-03	1.69E-03	2.58E-03	3.30E-03	1.47E-05	1.19E-03	2.91E-05	1.38E-04	0.00E+00
Massachusetts	Worcester	25027	U	Manganese Compounds	2.17E-04	2.59E-04	4.56E-04	6.65E-04	7.75E-04	9.95E-04	1.46E-03	1.77E-03	5.01E-07	7.14E-04	8.47E-06	5.24E-05	0.00E+00
Massachusetts	Worcester	25027	U	Mercury Compounds	1.63E-03	1.64E-03	1.67E-03	1.70E-03	1.74E-03	1.79E-03	1.87E-03	1.92E-03	2.81E-05	2.00E-04	2.88E-07	1.28E-05	1.50E-03
Massachusetts	Worcester	25027	U	Methylene Chloride	2.31E-01	2.48E-01	3.11E-01	4.25E-01	4.85E-01	5.74E-01	7.43E-01	9.58E-01	3.09E-02	3.04E-01	0.00E+00	0.00E+00	1.50E-01
Massachusetts	Worcester	25027	U	Nickel Compounds	1.83E-04	2.19E-04	3.67E-04	6.52E-04	9.67E-04	1.18E-03	1.85E-03	2.65E-03	3.85E-07	9.18E-04	1.63E-05	3.28E-05	0.00E+00
Massachusetts	Worcester	25027	U	Perchloroethylene	1.84E-01	1.93E-01	2.34E-01	3.11E-01	3.47E-01	4.08E-01	5.07E-01	6.34E-01	8.89E-03	1.98E-01	0.00E+00	0.00E+00	1.40E-01
Massachusetts	Worcester	25027	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
Massachusetts	Worcester	25027	U	Polycyclic Organic Matter	1.21E-02	1.45E-02	2.49E-02	3.83E-02	4.34E-02	5.79E-02	8.13E-02	1.01E-01	2.59E-06	4.32E-02	1.92E-04	2.86E-05	0.00E+00
Massachusetts	Worcester	25027	U	7-PAH	8.39E-04	9.61E-04	1.61E-03	2.23E-03	2.48E-03	3.15E-03	4.46E-03	5.30E-03	1.97E-07	2.38E-03	8.49E-05	1.27E-05	0.00E+00
Massachusetts	Worcester	25027	U	Propylene Dichloride	2.08E-04	2.22E-04	2.48E-04	3.01E-04	3.24E-04	3.70E-04	4.42E-04	4.91E-04	2.81E-04	4.32E-05	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Quinoline	5.58E-08	7.04E-08	1.03E-07	1.57E-07	2.49E-07	2.78E-07	4.60E-07	6.99E-07	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	1,1,2,2-Tetrachloroethane	1.89E-03	1.99E-03	2.25E-03	2.72E-03	2.93E-03	3.35E-03	3.99E-03	4.46E-03	2.57E-03	3.56E-04	0.00E+00	0.00E+00	0.00E+00
Massachusetts	Worcester	25027	U	Trichloroethylene	1.14E-01	1.23E-01	1.53E-01	2.17E-01	2.56E-01	3.13E-01	4.35E-01	6.20E-01	1.87E-02	1.56E-01	0.00E+00	0.00E+00	8.10E-02
Massachusetts	Worcester	25027	U	Vinyl Chloride	4.70E-03	5.14E-03	5.67E-03	6.96E-03	7.42E-03	8.54E-03	1.03E-02	1.13E-02	6.34E-03	1.08E-03	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Acetaldehyde	5.96E-02	9.84E-02	2.26E-01	5.62E-01	8.02E-01	1.05E+00	1.68E+00	2.26E+00	6.83E-03	7.45E-02	4.38E-01	2.83E-01	0.00E+00
National	Nationwide	N/A	N/A	Acrolein	1.36E-02	2.35E-02	4.48E-02	8.45E-02	1.19E-01	1.43E-01	2.42E-01	3.56E-01	3.48E-03	2.52E-02	4.93E-02	4.13E-02	0.00E+00
National	Nationwide	N/A	N/A	Acrylonitrile	2.70E-05	5.84E-05	2.04E-04	7.85E-04	5.04E-03	2.76E-03	7.94E-03	1.73E-02	4.21E-03	8.33E-04	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Arsenic Compounds	2.23E-06	6.05E-06	2.25E-05	6.21E-05	1.46E-04	1.37E-04	2.52E-04	4.00E-04	5.00E-05	8.75E-05	6.47E-07	7.65E-06	0.00E+00
National	Nationwide	N/A	N/A	Benzene	5.62E-01	6.10E-01	7.87E-01	1.21E+00	1.39E+00	1.78E+00	2.37E+00	2.84E+00	3.70E-02	8.72E-02	5.54E-01	2.34E-01	4.80E-01
National	Nationwide	N/A	N/A	Beryllium Compounds	3.14E-07	7.40E-07	3.13E-06	1.08E-05	3.11E-05	2.16E-05	3.93E-05	6.10E-05	2.43E-06	2.86E-05	0.00E+00	6.69E-08	0.00E+00
National	Nationwide	N/A	N/A	1,3-Butadiene	5.92E-03	9.52E-03	2.25E-02	5.39E-02	7.18E-02	9.38E-02	1.46E-01	1.89E-01	1.43E-03	9.24E-03	4.63E-02	1.48E-02	0.00E+00
National	Nationwide	N/A	N/A	Cadmium Compounds	1.37E-06	3.29E-06	1.39E-05	5.13E-05	2.12E-04	1.74E-04	5.01E-04	7.83E-04	2.51E-05	1.86E-04	0.00E+00	9.34E-07	0.00E+00
National	Nationwide	N/A	N/A	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.82E-01	8.83E-01	5.42E-04	6.63E-04	0.00E+00	0.00E+00	8.80E-01
National	Nationwide	N/A	N/A	Chloroform	8.31E-02	8.32E-02	8.35E-02	8.47E-02	8.94E-02	8.73E-02	9.61E-02	1.06E-01	2.73E-03	3.69E-03	0.00E+00	0.00E+00	8.30E-02
National	Nationwide	N/A	N/A	Chromium Compounds	1.70E-05	3.97E-05	1.68E-04	7.95E-04	2.33E-03	2.65E-03	5.56E-03	8.43E-03	3.51E-04	1.79E-03	4.22E-05	1.39E-04	0.00E+00
National	Nationwide	N/A	N/A	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	7.38E-04	4.79E-03	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,3-Dichloropropene	2.53E-03	5.17E-03	2.01E-02	6.45E-02	9.53E-02	1.19E-01	2.24E-01	3.33E-01	3.13E-06	9.53E-02	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Diesel Particulate Matter	3.28E-01	4.86E-01	8.49E-01	1.53E+00	2.06E+00	2.45E+00	3.66E+00	5.37E+00	0.00E+00	0.00E+00	6.30E-01	1.43E+00	***
National	Nationwide	N/A	N/A	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.73E-03	7.70E-03	7.71E-03	7.72E-03	1.21E-05	2.09E-05	0.00E+00	0.00E+00	7.70E-03
National	Nationwide	N/A	N/A	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.11E-02	6.32E-02	6.15E-02	6.29E-02	6.71E-02	1.90E-03	2.75E-04	0.00E+00	0.00E+00	6.10E-02
National	Nationwide	N/A	N/A	Ethylene Oxide	2.82E-05	7.07E-05	3.53E-04	1.60E-03	4.14E-03	4.13E-03	8.47E-03	1.40E-02	4.64E-04	3.67E-03	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Formaldehyde	3.45E-01	4.05E-01	5.61E-01	8.90E-01	1.25E+00	1.44E+00	2.24E+00	3.15E+00	1.15E-02	1.38E-01	3.76E-01	4.77E-01	2.50E-01
National	Nationwide	N/A	N/A	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.34E-05	9.31E-05	9.34E-05	9.42E-05	7.55E-08	3.48E-07	0.00E+00	0.00E+00	9.30E-05
National	Nationwide	N/A	N/A	Hydrazine	3.66E-11	2.90E-10	4.99E-09	4.40E-08	9.77E-06	3.01E-07	6.46E-06	2.18E-05	3.27E-06	6.50E-06	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Lead Compounds	3.67E-05	8.95E-05	3.98E-04	1.88E-03	5.99E-03	6.10E-03	1.54E-02	2.50E-02	4.93E-04	2.16E-03	5.88E-05	3.28E-03	0.00E+00
National	Nationwide	N/A	N/A	Manganese Compounds	5.71E-05	1.43E-04	5.63E-04	1.46E-03	3.13E-03	3.27E-03	6.54E-03	9.27E-03	9.06E-04	2.06E-03	1.72E-05	1.41E-04	0.00E+00
National	Nationwide	N/A	N/A	Mercury Compounds	1.51E-03	1.52E-03	1.56E-03	1.69E-03	2.06E-03	2.00E-03	2.67E-03	3.77E-03	6.17E-05	4.69E-04	5.60E-07	2.90E-05	1.50E-03
National	Nationwide	N/A	N/A	Methylene Chloride	1.56E-01	1.63E-01	2.09E-01	3.40E-01	4.70E-01	5.62E-01	9.22E-01	1.19E+00	6.20E-02	2.58E-01	0.00E+00	0.00E+00	1.50E-01
National	Nationwide	N/A	N/A	Nickel Compounds	2.43E-05	5.57E-05	2.47E-04	9.48E-04	2.22E-03	2.79E-03	5.29E-03	7.58E-03	3.39E-04	1.53E-03	3.28E-05	3.22E-04	0.00E+00
National	Nationwide	N/A	N/A	Perchloroethylene	1.42E-01	1.46E-01	1.66E-01	2.43E-01	3.23E-01	3.68E-01	5.98E-01	7.80E-01	2.30E-02	1.60E-01	0.00E+00	0.00E+00	1.40E-01
National	Nationwide	N/A	N/A	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.81E-04	3.80E-04	3.80E-04	3.80E-04	3.67E-09	1.09E-06	0.00E+00	0.00E+00	3.80E-04
National	Nationwide	N/A	N/A	Polycyclic Organic Matter	4.74E-03	8.13E-03	2.25E-02	5.79E-02	9.07E-02	1.10E-01	2.13E-01	3.06E-01	6.63E-03	8.37E-02	2.60E-04	9.44E-05	0.00E+00
National	Nationwide	N/A	N/A	7-PAH	2.91E-04	5.22E-04	1.11E-03	2.70E-03	4.36E-03	5.09E-03	1.02E-02	1.52E-02	2.17E-04	4.00E-03	1.18E-04	2.55E-05	0.00E+00
National	Nationwide	N/A	N/A	Propylene Dichloride	1.51E-06	3.50E-06	1.20E-05	4.16E-05	4.04E-04	1.34E-04	3.98E-04	8.71E-04	3.55E-04	4.90E-05	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Quinoline	7.86E-10	4.86E-09	4.10E-08	2.53E-07	4.33E-05	1.05E-06	3.31E-06	5.44E-05	2.96E-05	1.36E-05	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,1,2,													

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
National	Nationwide	N/A	N/A	Vinyl Chloride	2.96E-05	7.20E-05	2.62E-04	1.06E-03	5.66E-03	3.95E-03	1.14E-02	2.04E-02	4.37E-03	1.29E-03	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Acetaldehyde	1.26E-01	2.01E-01	4.01E-01	7.43E-01	9.67E-01	1.19E+00	1.84E+00	2.59E+00	7.02E-03	8.33E-02	5.29E-01	3.48E-01	0.00E+00
National	All Urban Counties	N/A	U	Acrolein	2.27E-02	3.49E-02	6.21E-02	1.03E-01	1.39E-01	1.63E-01	2.67E-01	3.97E-01	4.21E-03	2.48E-02	5.93E-02	5.07E-02	0.00E+00
National	All Urban Counties	N/A	U	Acrylonitrile	7.60E-05	1.42E-04	4.09E-04	1.16E-03	6.16E-03	3.83E-03	1.01E-02	2.07E-02	5.16E-03	9.97E-04	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Arsenic Compounds	7.67E-06	1.55E-05	3.74E-05	8.05E-05	1.69E-04	1.55E-04	2.77E-04	4.44E-04	5.69E-05	1.02E-04	7.70E-07	9.52E-06	0.00E+00
National	All Urban Counties	N/A	U	Benzene	6.48E-01	7.48E-01	1.00E+00	1.41E+00	1.57E+00	1.94E+00	2.52E+00	2.98E+00	4.57E-02	9.18E-02	6.67E-01	2.82E-01	4.80E-01
National	All Urban Counties	N/A	U	Beryllium Compounds	1.06E-06	2.35E-06	6.74E-06	1.39E-05	3.70E-05	2.48E-05	4.40E-05	6.75E-05	2.16E-06	3.48E-05	0.00E+00	8.34E-08	0.00E+00
National	All Urban Counties	N/A	U	1,3-Butadiene	1.11E-02	1.76E-02	3.63E-02	6.65E-02	8.41E-02	1.06E-01	1.58E-01	2.03E-01	1.74E-03	8.68E-03	5.57E-02	1.79E-02	0.00E+00
National	All Urban Counties	N/A	U	Cadmium Compounds	4.93E-06	1.04E-05	2.70E-05	7.72E-05	2.49E-04	2.35E-04	5.80E-04	8.79E-04	2.20E-04	2.81E-05	0.00E+00	1.16E-06	0.00E+00
National	All Urban Counties	N/A	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	8.81E-01	8.82E-01	8.84E-01	6.68E-04	8.12E-04	0.00E+00	0.00E+00	8.80E-01
National	All Urban Counties	N/A	U	Chloroform	8.33E-02	8.35E-02	8.40E-02	8.53E-02	9.08E-02	8.84E-02	9.91E-02	1.08E-01	3.20E-03	4.56E-03	0.00E+00	0.00E+00	8.30E-02
National	All Urban Counties	N/A	U	Chromium Compounds	5.60E-05	1.17E-04	3.65E-04	1.26E-03	2.77E-03	3.26E-03	6.29E-03	9.37E-03	4.05E-04	2.14E-03	5.02E-05	1.72E-04	0.00E+00
National	All Urban Counties	N/A	U	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	1.92E-03	6.37E-03	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	1,3-Dichloropropene	8.34E-03	1.65E-02	4.38E-02	8.18E-02	1.16E-01	1.41E-01	2.58E-01	3.71E-01	3.83E-06	1.16E-01	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Diesel Particulate Matter	5.13E-01	7.18E-01	1.17E+00	1.86E+00	2.41E+00	2.70E+00	4.09E+00	6.06E+00	0.00E+00	0.00E+00	7.25E-01	1.69E+00	***
National	All Urban Counties	N/A	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.74E-03	7.70E-03	7.71E-03	7.73E-03	1.50E-05	2.63E-05	0.00E+00	0.00E+00	7.70E-03
National	All Urban Counties	N/A	U	Ethylene Dichloride	6.10E-02	6.10E-02	6.11E-02	6.12E-02	6.37E-02	6.17E-02	6.35E-02	6.95E-02	2.34E-03	3.37E-04	0.00E+00	0.00E+00	6.10E-02
National	All Urban Counties	N/A	U	Ethylene Oxide	1.20E-04	2.66E-04	8.55E-04	2.30E-03	5.02E-03	5.01E-03	9.87E-03	1.63E-02	5.26E-04	4.49E-03	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Formaldehyde	4.21E-01	5.10E-01	7.18E-01	1.06E+00	1.44E+00	1.62E+00	2.46E+00	3.73E+00	1.28E-02	1.34E-01	4.54E-01	5.88E-01	2.50E-01
National	All Urban Counties	N/A	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.35E-05	9.31E-05	9.36E-05	9.46E-05	9.13E-08	4.16E-07	0.00E+00	0.00E+00	9.30E-05
National	All Urban Counties	N/A	U	Hydrazine	8.29E-10	3.00E-09	1.51E-08	7.86E-08	1.21E-05	5.18E-07	9.97E-06	2.74E-05	4.01E-06	8.13E-06	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Lead Compounds	1.38E-04	2.86E-04	9.04E-04	3.03E-03	7.30E-03	7.88E-03	1.79E-02	2.84E-02	5.61E-04	2.58E-03	7.00E-05	4.10E-03	0.00E+00
National	All Urban Counties	N/A	U	Manganese Compounds	1.77E-04	3.76E-04	9.10E-04	1.82E-03	3.45E-03	3.79E-03	7.09E-03	9.81E-03	9.40E-04	2.32E-03	2.05E-05	1.74E-04	0.00E+00
National	All Urban Counties	N/A	U	Mercury Compounds	1.52E-03	1.55E-03	1.61E-03	1.78E-03	2.19E-03	2.11E-03	2.95E-03	4.15E-03	6.99E-05	5.79E-04	6.65E-07	3.57E-05	1.50E-03
National	All Urban Counties	N/A	U	Methylene Chloride	1.73E-01	1.97E-01	2.69E-01	4.02E-01	5.34E-01	6.45E-01	1.00E+00	1.27E+00	7.21E-02	3.12E-01	0.00E+00	0.00E+00	1.50E-01
National	All Urban Counties	N/A	U	Nickel Compounds	8.55E-05	1.78E-04	5.15E-04	1.41E-03	2.66E-03	3.37E-03	5.84E-03	8.35E-03	3.98E-04	1.82E-03	3.90E-05	4.00E-04	0.00E+00
National	All Urban Counties	N/A	U	Perchloroethylene	1.51E-01	1.62E-01	2.03E-01	2.83E-01	3.65E-01	4.20E-01	6.57E-01	8.40E-01	2.84E-02	1.97E-01	0.00E+00	0.00E+00	1.40E-01
National	All Urban Counties	N/A	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.81E-04	3.80E-04	3.80E-04	3.81E-04	3.74E-09	1.38E-06	0.00E+00	0.00E+00	3.80E-04
National	All Urban Counties	N/A	U	Polycyclic Organic Matter	1.03E-02	1.78E-02	4.00E-02	7.15E-02	1.08E-01	1.30E-01	2.41E-01	3.33E-01	7.54E-03	9.97E-02	3.07E-04	1.13E-04	0.00E+00
National	All Urban Counties	N/A	U	7-PAH	4.71E-04	7.69E-04	1.70E-03	3.36E-03	5.13E-03	5.98E-03	1.17E-02	1.68E-02	2.72E-04	4.69E-03	1.39E-04	2.91E-05	0.00E+00
National	All Urban Counties	N/A	U	Propylene Dichloride	4.71E-06	8.70E-06	2.28E-05	6.25E-05	5.06E-04	1.89E-04	4.93E-04	1.09E-03	4.47E-04	5.85E-05	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Quinoline	9.00E-09	2.52E-08	1.02E-07	4.40E-07	5.33E-05	1.33E-06	4.94E-06	8.54E-05	3.67E-05	1.66E-05	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	2.82E-05	5.28E-05	1.67E-04	4.63E-04	2.12E-03	1.38E-03	3.76E-03	7.69E-03	1.72E-03	3.97E-04	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Trichloroethylene	8.41E-02	8.80E-02	1.01E-01	1.35E-01	2.00E-01	2.11E-01	3.54E-01	5.14E-01	3.25E-02	8.66E-02	0.00E+00	0.00E+00	8.10E-02
National	All Urban Counties	N/A	U	Vinyl Chloride	8.98E-05	1.84E-04	5.36E-04	1.62E-03	7.01E-03	5.63E-03	1.40E-02	2.36E-02	5.47E-03	1.54E-03	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Acetaldehyde	2.47E-02	4.10E-02	7.84E-02	1.33E-01	1.72E-01	2.24E-01	3.45E-01	4.30E-01	6.12E-03	4.10E-02	8.84E-02	3.69E-02	0.00E+00
National	All Rural Counties	N/A	R	Acrolein	4.11E-03	9.31E-03	2.17E-02	3.65E-02	4.39E-02	5.50E-02	8.13E-02	1.04E-01	6.92E-04	2.67E-02	1.10E-02	5.49E-03	0.00E+00
National	All Rural Counties	N/A	R	Acrylonitrile	5.38E-06	1.39E-05	3.97E-05	1.05E-04	7.97E-04	2.80E-04	7.00E-04	1.29E-03	5.87E-04	2.11E-04	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Arsenic Compounds	4.04E-07	1.08E-06	3.95E-06	1.28E-05	5.79E-05	3.72E-05	9.44E-05	1.94E-04	2.35E-05	3.37E-05	1.78E-07	5.02E-07	0.00E+00
National	All Rural Counties	N/A	R	Benzene	5.10E-01	5.36E-01	5.84E-01	6.58E-01	7.32E-01	7.99E-01	1.00E+00	1.17E+00	4.07E-03	6.98E-02	1.25E-01	5.29E-02	4.80E-01
National	All Rural Counties	N/A	R	Beryllium Compounds	7.74E-08	1.81E-07	5.14E-07	1.31E-06	8.51E-06	3.84E-06	9.78E-06	1.81E-05	3.46E-06	5.04E-06	0.00E+00	4.17E-09	0.00E+00
National	All Rural Counties	N/A	R	1,3-Butadiene	2.06E-03	3.94E-03	8.00E-03	1.39E-02	2.51E-02	2.94E-02	5.31E-02	7.36E-02	2.57E-04	1.14E-02	1.03E-02	3.19E-03	0.00E+00
National	All Rural Counties	N/A	R	Cadmium Compounds	2.96E-07	7.67E-07	2.19E-06	6.08E-06	7.14E-05	1.63E-05	5.51E-05	1.36E-04	1.37E-05	5.77E-05	0.00E+00	5.81E-08	0.00E+00
National	All Rural Counties	N/A	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	6.21E-05	9.88E-05	0.00E+00	0.00E+00	8.80E-01
National	All Rural Counties	N/A	R	Chloroform	8.30E-02	8.30E-02	8.31E-02	8.33E-02	8.43E-02	8.35E-02	8.42E-02	8.64E-02	9.45E-04	4.02E-04	0.00E+00	0.00E+00	8.30E-02
National	All Rural Counties	N/A	R	Chromium Compounds	2.83E-06	8.42E-06	2.55E-05	7.47E-05	6.53E-04	2.48E-04	1.06E-03	2.43E-03	1.46E-04	4.81E-04	1.17E-05	1.41E-05	0.00E+00
National	All Rural Counties	N/A	R	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	1,3-Dichloropropene	5.52E-04	1.39E-03	3.47E-03	7.68E-03	1.72E-02	2.08E-02	4.69E-02	6.53E-02	4.52E-07	1.72E-02	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Diesel Particulate Matter	1.45E-01	2.25E-01	4.24E-01	6.66E-01	7.40E-01	9.66E-01	1.32E+00	1.56E+00	0.00E+00	0.00E+00	2.71E-01	4.69E-01	***
National	All Rural Counties	N/A	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.70E-03	9.10E-07	4.24E-07	0.00E+00	0.00E+00	7.70E-03
National	All Rural Counties	N/A	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.13E-02	6.10E-02	6.11E-02	6.12E-02	2.11E-04	4.08E-05	0.00E+00	0.00E+00	6.10E-02
National	All Rural Counties	N/A	R	Ethylene Oxide	4.98E-06	1.24E-05	4.10E-05	1.25E-04	7.64E-04	4.14E-04	1.23E-03	2.27E-03	2.25E-04	5.38E-04	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Formaldehyde	2.84E-01	3.13E-01	3.81E-01	4.67E-01	5.48E-01	5.93E-01	7.69E-01	9.16E-01	6.47E-03	1.56E-01	7.92E-02	5.61E-02	2.50E-01
National	All Rural Counties	N/A	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.31E-05	9.32E-05	9.33E-05	1.50E-08	8.66E-08	0.00E+00	0.00E+00	9.30E-05
National	All Rural Counties	N/A	R	Hydrazine	0.00E+00	4.45E-12	9.09E-11	9.62E-10	7.52E-07	8.89E-09	8.65E-08	3.65E-07	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Lead Compounds	7.89E-06	1.76E-05	5.26E-05	1.71E-04	9.65E-04	5.23E-04	1.53E-03	3.13E-03	2.33E-04	5.66E-04	1.64E-05	1.50E-04	0.00E+

KEY-- *** onroad and nonroad concentrations include a model-estimated background concentration																	
Estimated Annual Average Ambient Concentrations (µg/m ³) for Massachusetts																	
State	County	FIPS	Urban or Rural	Pollutant	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
					5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
National	All Rural Counties	N/A	R	Mercury Compounds	1.50E-03	1.50E-03	1.51E-03	1.53E-03	1.59E-03	1.56E-03	1.62E-03	1.69E-03	3.04E-05	5.14E-05	1.57E-07	3.31E-06	1.50E-03
National	All Rural Counties	N/A	R	Methylene Chloride	1.51E-01	1.53E-01	1.58E-01	1.72E-01	2.25E-01	2.17E-01	3.21E-01	4.34E-01	2.34E-02	5.15E-02	0.00E+00	0.00E+00	1.50E-01
National	All Rural Counties	N/A	R	Nickel Compounds	4.25E-06	1.20E-05	3.51E-05	1.01E-04	5.65E-04	3.28E-04	9.65E-04	1.98E-03	1.17E-04	4.16E-04	9.04E-06	2.27E-05	0.00E+00
National	All Rural Counties	N/A	R	Perchloroethylene	1.40E-01	1.41E-01	1.43E-01	1.49E-01	1.65E-01	1.65E-01	2.06E-01	2.41E-01	2.26E-03	2.25E-02	0.00E+00	0.00E+00	1.40E-01
National	All Rural Counties	N/A	R	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.42E-09	1.17E-08	0.00E+00	0.00E+00	3.80E-04
National	All Rural Counties	N/A	R	Polycyclic Organic Matter	1.32E-03	2.90E-03	6.21E-03	1.18E-02	2.61E-02	2.71E-02	5.54E-02	8.67E-02	3.16E-03	2.28E-02	8.05E-05	2.55E-05	0.00E+00
National	All Rural Counties	N/A	R	7-PAH	8.42E-05	1.89E-04	5.10E-04	9.11E-04	1.41E-03	1.65E-03	3.04E-03	4.11E-03	9.20E-06	1.35E-03	3.88E-05	1.19E-05	0.00E+00
National	All Rural Counties	N/A	R	Propylene Dichloride	2.43E-07	6.71E-07	2.34E-06	6.42E-06	1.82E-05	1.58E-05	3.57E-05	5.62E-05	5.71E-06	1.24E-05	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Quinoline	0.00E+00	1.21E-10	1.90E-09	1.44E-08	5.06E-06	7.37E-08	3.29E-07	9.54E-07	2.77E-06	2.29E-06	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	1,1,2,2-Tetrachloroethane	1.34E-06	4.65E-06	1.69E-05	4.77E-05	1.31E-04	1.23E-04	2.84E-04	4.57E-04	3.28E-05	9.84E-05	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Trichloroethylene	8.11E-02	8.13E-02	8.19E-02	8.40E-02	9.96E-02	9.29E-02	1.17E-01	1.51E-01	6.09E-03	1.25E-02	0.00E+00	0.00E+00	8.10E-02
National	All Rural Counties	N/A	R	Vinyl Chloride	3.96E-06	1.33E-05	5.03E-05	1.45E-04	5.19E-04	3.78E-04	9.56E-04	1.57E-03	1.99E-04	3.20E-04	0.00E+00	0.00E+00	0.00E+00