

US EPA ARCHIVE DOCUMENT

1999 DRAFT Modeled Ambient Concentrations for Massachusetts: For Review Only

The purpose of presenting these estimates is to provide additional information for State, local, and tribal organization review of the draft 1999 NEI for HAPs posted October 2002. EPA strongly cautions that these model estimates should not be used to draw conclusions about air quality or risk. They should also not be used for comparison with 1996 NATA results to perform trends analysis because, in addition to being draft, changes have been made to emission inventory and processing methodologies.

[See www.epa.gov/ttn/chief/net/index.html#1999](http://www.epa.gov/ttn/chief/net/index.html#1999) for more information on the draft 1999 NEI for HAPs.

Please also note:

- The general approach for emission inventory development and modeling is similar to that used for the National-Scale Assessment for 1996
[For a discussion of limitations, please see http://www.epa.gov/ttn/atw/nata1999/natsalim2.htm](http://www.epa.gov/ttn/atw/nata1999/natsalim2.htm)
- The emission processing and modeling procedures utilize 1999 meteorology, 1999 emissions and updated and new spatial information including the 2000 census for population and census tract centroid location
[Background concentrations are the same as those used in the 1996 NATA.](#)
- For formaldehyde and acetaldehyde, secondary contributions were estimated outside of the ASPEN model using the same proportion of secondary to primary concentrations as was used in the 1996 NATA assessment.
- Because the emissions used are from 1999, they do not reflect potentially significant emission reductions that have taken effect since then, 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.

DRAFT FOR REVIEW ONLY 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 | Statewide | N/A | N/A | Acetaldehyde | 1.58E-01 | 2.12E-01 | 4.11E-01 | 6.47E-01 | 7.24E-01 | 8.91E-01 | 1.30E+00 | 1.61E+00 | 3.97E-05 | 5.43E-02 | 4.90E-01 | 1.80E-01 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Acrolein | 3.33E-02 | 4.20E-02 | 6.73E-02 | 1.04E-01 | 9.89E-02 | 1.25E-01 | 1.48E-01 | 1.59E-01 | 1.24E-06 | 1.38E-02 | 6.64E-02 | 1.87E-02 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Acrylonitrile | 1.14E-03 | 1.55E-03 | 2.39E-03 | 3.28E-03 | 4.69E-03 | 4.36E-03 | 6.50E-03 | 9.97E-03 | 2.80E-03 | 1.88E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Arsenic Compounds | 3.59E-05 | 5.76E-05 | 1.04E-04 | 1.77E-04 | 2.03E-04 | 2.60E-04 | 3.69E-04 | 4.76E-04 | 2.13E-05 | 7.13E-05 | 6.59E-05 | 4.43E-05 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Benzene | 8.17E-01 | 9.29E-01 | 1.14E+00 | 1.43E+00 | 1.48E+00 | 1.70E+00 | 2.10E+00 | 2.34E+00 | 7.94E-03 | 1.51E-01 | 6.33E-01 | 2.13E-01 | 4.80E-01 | | |
| Massachusetts | Statewide | N/A | N/A | Benzidine | 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 | Beryllium Compounds | 9.20E-06 | 1.56E-05 | 4.40E-05 | 1.84E-04 | 2.29E-04 | 2.91E-04 | 4.10E-04 | 2.87E-07 | 2.92E-04 | 6.41E-04 | 2.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | 1,3-Butadiene | 1.45E-02 | 2.03E-02 | 3.48E-02 | 5.54E-02 | 7.15E-02 | 8.71E-02 | 1.41E-01 | 1.89E-01 | 2.05E-09 | 8.43E-04 | 5.09E-02 | 1.98E-02 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Cadmium Compounds | 1.19E-05 | 1.85E-05 | 3.35E-05 | 5.86E-05 | 6.34E-05 | 7.94E-05 | 1.04E-04 | 1.27E-04 | 2.74E-06 | 6.02E-05 | 0.00E+00 | 4.44E-07 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Carbon Disulfide | 4.76E-02 | 4.81E-02 | 4.94E-02 | 5.06E-02 | 5.15E-02 | 5.22E-02 | 5.22E-02 | 5.46E-02 | 3.69E-04 | 4.08E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 | | |
| Massachusetts | Statewide | N/A | N/A | 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 | 5.13E-06 | 6.46E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 | | |
| Massachusetts | Statewide | N/A | N/A | Chloroform | 9.42E-02 | 9.99E-02 | 1.13E-01 | 1.48E-01 | 1.61E-01 | 1.88E-01 | 2.54E-01 | 2.83E-01 | 3.11E-05 | 7.80E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 | | |
| Massachusetts | Statewide | N/A | N/A | Chromium Compounds (includes Hexavalent) | 5.08E-05 | 8.01E-05 | 1.70E-04 | 2.97E-04 | 3.76E-04 | 4.05E-04 | 6.09E-04 | 9.39E-04 | 7.55E-05 | 2.42E-04 | 5.46E-05 | 3.43E-06 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Chromium VI | 1.64E-05 | 2.62E-05 | 5.42E-05 | 8.80E-05 | 1.14E-04 | 1.23E-04 | 2.00E-04 | 2.92E-04 | 9.66E-06 | 8.15E-05 | 2.18E-05 | 1.17E-06 | 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 | 1,4-Dichlorobenzene | 1.12E-02 | 1.75E-02 | 3.23E-02 | 5.17E-02 | 5.86E-02 | 7.67E-02 | 1.12E-01 | 1.31E-01 | 2.57E-04 | 5.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | 1,3-Dichloropropene | 2.24E-02 | 3.38E-02 | 6.37E-02 | 1.02E-01 | 1.17E-01 | 1.53E-01 | 2.24E-01 | 2.65E-01 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Ethylene Dibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.71E-03 | 1.57E-06 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 | | |
| Massachusetts | Statewide | N/A | N/A | Ethylene Dichloride | 6.11E-02 | 6.12E-02 | 6.13E-02 | 6.14E-02 | 6.16E-02 | 6.15E-02 | 6.18E-02 | 6.23E-02 | 3.39E-04 | 2.39E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 | | |
| Massachusetts | Statewide | N/A | N/A | Ethylene Oxide | 7.06E-05 | 1.27E-04 | 3.90E-04 | 7.26E-04 | 9.93E-04 | 1.13E-03 | 2.01E-03 | 2.66E-03 | 0.00E+00 | 9.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Formaldehyde | 4.44E-01 | 5.16E-01 | 7.29E-01 | 9.98E-01 | 1.15E+00 | 1.32E+00 | 1.86E+00 | 2.50E+00 | 2.65E+00 | 3.87E-02 | 5.09E-01 | 3.31E-01 | 2.50E-01 | | |
| Massachusetts | Statewide | N/A | N/A | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.33E-05 | 9.34E-05 | 9.37E-05 | 9.40E-05 | 0.00E+00 | 3.14E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | | |
| Massachusetts | Statewide | N/A | N/A | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 3.74E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | | |
| Massachusetts | Statewide | N/A | N/A | Hexamethylene Diisocyanate | 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 | Hydrazine | 1.76E-09 | 4.79E-09 | 2.29E-08 | 3.82E-07 | 4.61E-06 | 9.66E-07 | 2.10E-06 | 4.67E-06 | 8.41E-09 | 4.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Lead Compounds | 4.45E-04 | 6.30E-04 | 9.19E-04 | 1.24E-03 | 1.51E-03 | 1.61E-03 | 2.56E-03 | 3.22E-03 | 2.82E-05 | 6.20E-04 | 0.00E+00 | 8.59E-04 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Manganese Compounds | 4.63E-05 | 7.31E-05 | 1.18E-04 | 1.72E-04 | 1.84E-04 | 2.36E-04 | 2.90E-04 | 3.40E-04 | 1.41E-05 | 1.46E-04 | 1.74E-05 | 5.95E-06 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Mercury Compounds | 1.54E-03 | 1.56E-03 | 1.60E-03 | 1.67E-03 | 1.70E-03 | 1.74E-03 | 1.85E-03 | 1.96E-03 | 1.77E-05 | 7.39E-05 | 6.60E-05 | 3.88E-05 | 1.50E-03 | | |
| Massachusetts | Statewide | N/A | N/A | Methylene Chloride | 1.97E-01 | 2.25E-01 | 3.10E-01 | 4.04E-01 | 4.40E-01 | 5.06E-01 | 6.50E-01 | 8.02E-01 | 1.83E-02 | 2.72E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 | | |
| Massachusetts | Statewide | N/A | N/A | Nickel Compounds | 1.47E-04 | 2.24E-04 | 5.10E-04 | 9.73E-04 | 1.16E-03 | 1.78E-03 | 4.03E-03 | 5.92E-03 | 2.17E-04 | 1.30E-03 | 4.05E-05 | 5.22E-05 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Perchloroethylene | 1.55E-01 | 1.63E-01 | 1.85E-01 | 2.23E-01 | 2.30E-01 | 2.58E-01 | 2.93E-01 | 3.29E-01 | 5.16E-03 | 8.45E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | | |
| Massachusetts | Statewide | N/A | N/A | Polychlorinated Biphenyls | 3.90E-04 | 3.90E-04 | 3.92E-04 | 4.00E-04 | 4.17E-04 | 4.28E-04 | 4.67E-04 | 5.00E-04 | 0.00E+00 | 3.67E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | | |
| Massachusetts | Statewide | N/A | N/A | Polycyclic Organic Matter | 2.87E-02 | 3.79E-02 | 5.77E-02 | 8.30E-02 | 8.61E-02 | 1.09E-01 | 1.34E-01 | 1.56E-01 | 1.16E-03 | 6.39E-02 | 1.68E-02 | 4.25E-03 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | 7-PAH | 8.69E-04 | 9.95E-04 | 1.24E-03 | 1.46E-03 | 1.68E-03 | 1.92E-03 | 2.60E-03 | 3.16E-03 | 8.95E-08 | 1.52E-03 | 1.14E-04 | 4.74E-05 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Propylene Dichloride | 6.70E-05 | 8.62E-05 | 1.42E-04 | 1.93E-04 | 2.79E-04 | 2.59E-04 | 3.88E-04 | 5.86E-04 | 1.70E-04 | 1.09E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Quinoline | 2.21E-08 | 4.83E-08 | 1.27E-07 | 2.35E-07 | 4.43E-07 | 8.46E-07 | 1.32E-06 | 0.00E+00 | 4.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | 1,1,2,2-Tetrachloroethane | 5.87E-04 | 7.13E-04 | 1.22E-03 | 1.65E-03 | 2.46E-03 | 2.28E-03 | 3.48E-03 | 5.24E-03 | 1.55E-03 | 9.08E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | Statewide | N/A | N/A | Trichloroethylene | 9.06E-02 | 9.90E-02 | 1.21E-01 | 1.42E-01 | 1.60E-01 | 1.68E-01 | 2.13E-01 | 2.57E-01 | 2.67E-02 | 5.25E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | | |
| Massachusetts | Statewide | N/A | N/A | Vinyl Chloride | 1.48E-03 | 1.77E-03 | 3.03E-03 | 4.08E-03 | 6.09E-03 | 5.63E-03 | 8.61E-03 | 1.29E-02 | 3.83E-03 | 2.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | Acetaldehyde | 2.07E-01 | 2.94E-01 | 4.78E-01 | 6.73E-01 | 7.67E-01 | 9.33E-01 | 1.33E+00 | 1.63E+00 | 4.22E-05 | 5.76E-02 | 5.17E-01 | 1.92E-01 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | Acrolein | 4.04E-02 | 5.16E-02 | 7.56E-02 | 1.06E-01 | 1.04E-01 | 1.27E-01 | 1.48E-01 | 1.61E-01 | 1.31E-06 | 1.41E-02 | 7.01E-02 | 1.96E-02 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | Acrylonitrile | 1.52E-03 | 1.79E-03 | 2.53E-03 | 3.35E-03 | 4.87E-03 | 4.42E-03 | 6.53E-03 | 1.05E-02 | 3.00E-03 | 1.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | Arsenic Compounds | 5.82E-05 | 7.75E-05 | 1.18E-04 | 1.89E-04 | 2.15E-04 | 2.70E-04 | 3.77E-04 | 4.82E-04 | 2.29E-05 | 7.55E-05 | 6.97E-05 | 4.74E-05 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | Benzene | 8.92E-01 | 1.01E+00 | 1.21E+00 | 1.47E+00 | 1.53E+00 | 1.73E+00 | 2.14E+00 | 2.37E+00 | 8.50E-03 | 1.53E-01 | 6.68E-01 | 2.19E-01 | 4.80E-01 | | |
| Massachusetts | All Urban Counties | N/A | U | Benzidine | 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 | Beryllium Compounds | 1.85E-05 | 2.69E-05 | 5.52E-05 | 2.09E-04 | 2.47E-04 | 3.01E-04 | 4.25E-04 | 6.90E-04 | 3.08E-07 | 2.46E-04 | 0.00E+00 | 2.43E-07 | 0.00E+00 | | |
| Massachusetts | All Urban Counties | N/A | U | 1,3-Butadiene | 1.65E-02 | 2.37E-02 | 3.85E-02 | 5.89E-02 | 7.50E-02 | 9.05E-02 | 1.47E-01 | 1.94E-01 | 2.21E-09 | 7.73E-04 | 5.37E-02 | 2.05E-02 | 0.00E+00 | | |

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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 | All Urban Counties | N/A | U | Cadmium Compounds | 1.86E-05 | 2.47E-05 | 3.83E-05 | 6.11E-05 | 6.63E-05 | 8.09E-05 | 1.05E-04 | 1.27E-04 | 1.84E-06 | 6.40E-05 | 0.00E+00 | 4.65E-07 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Carbon Disulfide | 4.82E-02 | 4.86E-02 | 4.97E-02 | 5.07E-02 | 5.17E-02 | 5.24E-02 | 5.49E-02 | 5.80E-02 | 3.95E-04 | 4.34E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| 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 | 8.82E-01 | 5.49E-06 | 6.84E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | All Urban Counties | N/A | U | Chloroform | 9.84E-02 | 1.05E-01 | 1.19E-01 | 1.52E-01 | 1.66E-01 | 1.94E-01 | 2.56E-01 | 2.87E-01 | 3.20E-05 | 8.30E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | All Urban Counties | N/A | U | Chromium Compounds (includes Hexavalent) | 7.76E-05 | 1.21E-04 | 1.96E-04 | 3.07E-04 | 3.93E-04 | 4.13E-04 | 6.15E-04 | 9.45E-04 | 7.20E-05 | 2.60E-04 | 5.77E-05 | 3.57E-06 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Chromium VI | 2.62E-05 | 3.58E-05 | 6.23E-05 | 9.25E-05 | 1.21E-04 | 1.27E-04 | 2.13E-04 | 3.03E-04 | 9.82E-06 | 8.70E-05 | 2.31E-05 | 1.21E-06 | 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 | 1,4-Dichlorobenzene | 1.68E-02 | 2.25E-02 | 3.70E-02 | 5.36E-02 | 6.21E-02 | 7.93E-02 | 1.14E-01 | 1.32E-01 | 2.76E-04 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | 1,3-Dichloropropene | 3.20E-02 | 4.42E-02 | 7.32E-02 | 1.06E-01 | 1.24E-01 | 1.58E-01 | 2.29E-01 | 2.67E-01 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Ethylene Dibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.71E-03 | 1.68E-06 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | All Urban Counties | N/A | U | Ethylene Dichloride | 6.12E-02 | 6.12E-02 | 6.13E-02 | 6.14E-02 | 6.16E-02 | 6.15E-02 | 6.18E-02 | 6.23E-02 | 3.62E-04 | 2.38E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | All Urban Counties | N/A | U | Ethylene Oxide | 1.32E-04 | 2.35E-04 | 4.94E-04 | 7.59E-04 | 1.06E-03 | 1.18E-03 | 2.03E-03 | 2.71E-03 | 0.00E+00 | 1.06E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Formaldehyde | 5.06E-01 | 6.10E-01 | 7.93E-01 | 1.04E+00 | 1.20E+00 | 1.36E+00 | 1.95E+00 | 2.55E+00 | 2.84E-03 | 4.00E-02 | 5.59E-01 | 3.53E-01 | 2.50E-01 |
| Massachusetts | All Urban Counties | N/A | U | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.33E-05 | 9.34E-05 | 9.37E-05 | 9.40E-05 | 0.00E+00 | 3.01E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | All Urban Counties | N/A | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 3.96E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | All Urban Counties | N/A | U | Hexamethylene Diisocyanate | 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 | Hydrazine | 4.69E-09 | 7.97E-09 | 5.56E-08 | 4.41E-07 | 4.98E-06 | 1.01E-06 | 2.27E-06 | 6.43E-06 | 0.00E+00 | 4.98E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Lead Compounds | 5.71E-04 | 7.21E-04 | 9.64E-04 | 1.27E-03 | 1.52E-03 | 1.64E-03 | 2.56E-03 | 3.23E-03 | 2.51E-05 | 6.59E-04 | 0.00E+00 | 8.40E-04 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Manganese Compounds | 7.30E-05 | 9.10E-05 | 1.32E-04 | 1.80E-04 | 1.94E-04 | 2.43E-04 | 2.94E-04 | 3.46E-04 | 1.51E-05 | 1.54E-04 | 1.83E-05 | 6.35E-06 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Mercury Compounds | 1.56E-03 | 1.58E-03 | 1.62E-03 | 1.68E-03 | 1.70E-03 | 1.75E-03 | 1.86E-03 | 1.96E-03 | 1.37E-05 | 7.83E-05 | 6.97E-05 | 4.15E-05 | 1.50E-03 |
| Massachusetts | All Urban Counties | N/A | U | Methylene Chloride | 2.27E-01 | 2.58E-01 | 3.30E-01 | 4.13E-01 | 4.58E-01 | 5.18E-01 | 6.60E-01 | 8.33E-01 | 1.97E-02 | 2.88E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | All Urban Counties | N/A | U | Nickel Compounds | 2.49E-04 | 3.45E-04 | 5.72E-04 | 1.09E-03 | 1.72E-03 | 1.91E-03 | 4.29E-03 | 6.02E-03 | 2.23E-04 | 1.40E-03 | 4.28E-05 | 5.62E-05 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Perchloroethylene | 1.61E-01 | 1.71E-01 | 1.91E-01 | 2.26E-01 | 2.35E-01 | 2.60E-01 | 2.96E-01 | 3.34E-01 | 5.53E-03 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | All Urban Counties | N/A | U | Polychlorinated Biphenyls | 3.89E-04 | 3.90E-04 | 3.91E-04 | 3.98E-04 | 4.15E-04 | 4.23E-04 | 4.66E-04 | 5.00E-04 | 0.00E+00 | 3.51E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | All Urban Counties | N/A | U | Polycyclic Organic Matter | 3.61E-02 | 4.46E-02 | 6.45E-02 | 8.62E-02 | 9.00E-02 | 1.12E-01 | 1.35E-01 | 1.57E-01 | 1.26E-03 | 6.66E-02 | 1.77E-02 | 4.37E-03 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | 7-PAH | 8.78E-04 | 1.01E-03 | 1.26E-03 | 1.47E-03 | 1.71E-03 | 1.94E-03 | 2.64E-03 | 3.18E-03 | 6.13E-08 | 1.54E-03 | 1.02E-04 | 4.76E-05 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Propylene Dichloride | 8.47E-05 | 1.02E-04 | 1.49E-04 | 1.96E-04 | 2.90E-04 | 2.62E-04 | 3.91E-04 | 6.24E-04 | 1.82E-04 | 1.08E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Quinoline | 5.98E-08 | 9.12E-08 | 1.62E-07 | 2.57E-07 | 4.77E-07 | 4.30E-07 | 8.97E-07 | 1.38E-06 | 0.00E+00 | 4.77E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | 1,1,2,2-Tetrachloroethane | 6.90E-04 | 8.04E-04 | 1.28E-03 | 1.67E-03 | 2.56E-03 | 2.33E-03 | 3.50E-03 | 5.65E-03 | 1.66E-03 | 8.94E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Urban Counties | N/A | U | Trichloroethylene | 1.00E-01 | 1.09E-01 | 1.26E-01 | 1.45E-01 | 1.66E-01 | 1.70E-01 | 2.19E-01 | 2.61E-01 | 2.86E-02 | 5.59E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | All Urban Counties | N/A | U | Vinyl Chloride | 1.71E-03 | 2.00E-03 | 3.17E-03 | 4.13E-03 | 6.31E-03 | 5.75E-03 | 8.63E-03 | 1.39E-02 | 4.10E-03 | 2.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Acetaldehyde | 6.07E-02 | 8.13E-02 | 1.17E-01 | 1.75E-01 | 1.94E-01 | 2.39E-01 | 2.98E-01 | 4.09E-01 | 8.64E-06 | 1.34E-02 | 1.48E-01 | 3.31E-02 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Acrolein | 1.55E-02 | 1.93E-02 | 3.00E-02 | 3.79E-02 | 3.81E-02 | 4.83E-02 | 5.34E-02 | 6.05E-02 | 3.18E-07 | 9.92E-03 | 1.98E-02 | 8.31E-03 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Acrylonitrile | 3.27E-04 | 4.31E-04 | 8.34E-04 | 1.14E-03 | 2.39E-03 | 2.19E-03 | 5.20E-03 | 6.69E-03 | 3.53E-04 | 2.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Arsenic Compounds | 1.23E-05 | 1.76E-05 | 2.81E-05 | 3.99E-05 | 4.64E-05 | 6.13E-05 | 7.78E-05 | 1.02E-04 | 1.28E-06 | 1.87E-05 | 1.98E-05 | 6.57E-06 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Benzene | 6.85E-01 | 7.14E-01 | 7.64E-01 | 9.26E-01 | 9.38E-01 | 1.07E+00 | 1.20E+00 | 1.30E+00 | 9.74E-04 | 1.26E-01 | 1.88E-01 | 1.43E-01 | 4.80E-01 |
| Massachusetts | All Rural Counties | N/A | R | Benzidine | 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 | Beryllium Compounds | 2.94E-06 | 4.10E-06 | 6.72E-06 | 9.34E-06 | 1.21E-05 | 1.29E-05 | 2.47E-05 | 3.04E-05 | 2.76E-08 | 1.19E-05 | 0.00E+00 | 1.84E-07 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | 1,3-Butadiene | 9.18E-03 | 1.12E-02 | 1.52E-02 | 2.32E-02 | 2.85E-02 | 3.54E-02 | 5.13E-02 | 6.82E-02 | 0.00E+00 | 1.71E-03 | 1.57E-02 | 1.11E-02 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Cadmium Compounds | 3.48E-06 | 6.69E-06 | 1.03E-05 | 1.28E-05 | 2.77E-05 | 2.01E-05 | 5.62E-05 | 1.23E-04 | 1.39E-05 | 1.36E-05 | 0.00E+00 | 1.88E-07 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Carbon Disulfide | 4.72E-02 | 4.73E-02 | 4.74E-02 | 4.76E-02 | 4.80E-02 | 4.80E-02 | 4.91E-02 | 5.04E-02 | 4.64E-05 | 9.56E-04 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| 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 | 6.44E-07 | 1.77E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | All Rural Counties | N/A | R | Chloroform | 8.70E-02 | 8.75E-02 | 9.13E-02 | 9.72E-02 | 9.89E-02 | 1.02E-01 | 1.12E-01 | 1.17E-01 | 2.02E-05 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | All Rural Counties | N/A | R | Chromium Compounds (includes Hexavalent) | 9.30E-06 | 1.53E-05 | 2.98E-05 | 5.21E-05 | 1.60E-04 | 1.00E-04 | 3.60E-04 | 8.45E-04 | 1.19E-04 | 2.32E-05 | 1.61E-05 | 1.69E-06 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Chromium VI | 3.61E-06 | 6.29E-06 | 1.23E-05 | 1.62E-05 | 2.77E-05 | 2.93E-05 | 5.23E-05 | 1.00E-04 | 7.61E-06 | 1.31E-05 | 6.41E-06 | 5.76E-07 | 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 | 1,4-Dichlorobenzene | 3.33E-03 | 4.51E-03 | 8.00E-03 | 1.28E-02 | 1.54E-02 | 1.79E-02 | 2.88E-02 | 3.46E-02 | 3.23E-05 | 1.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | 1,3-Dichloropropene | 6.17E-03 | 8.46E-03 | 1.53E-02 | 2.53E-02 | 3.03E-02 | 3.56E-02 | 5.78E-02 | 6.84E-02 | 0.00E+00 | 3.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 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 | 1.96E-07 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | All Rural Counties | N/A | R | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.11E-02 | 6.11E-02 | 6.13E-02 | 6.13E-02 | 6.16E-02 | 6.18E-02 | 4.25E-05 | 2.45E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | All Rural Counties | N/A | R | Ethylene Oxide | 1.44E-05 | 2.63E-05 | 3.62E-05 | 6.14E-05 | 1.22E-04 | 1.30E-04 | 2.52E-04 | 3.71E-04 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Formaldehyde | 3.31E-01 | 3.58E-01 | 4.00E-01 | 4.63E-01 | 4.87E-01 | 5.52E-01 | 6.30E-01 | 6.92E-01 | 2.87E-04 | 2.24E-02 | 1.56E-01 | 5.83E-02 | 2.50E-01 |
| Massachusetts | All Rural Counties | N/A | R | Hexachlorobenzene | 9.31E-05 | 9.32E-05 | 9.33E-05 | 9.34E-05 | 9.35E-05 | 9.36E-05 | 9.38E-05 | 9.40E-05 | 0.00E+00 | 4.76E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | All Rural Counties | N/A | R | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 1.00E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | All Rural Counties | N/A | R | Hexamethylene Diisocyanate | 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 | Hydrazine | 1.93E-11 | 3.54E-10 | 6.26E-10 | 1.57E-09 | 1.16E-07 | 8.90E-09 | 6.36E-07 | 6.80E-07 | 1.13E-07 | 3.02E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Lead Compounds | 1.89E-04 | 2.36E-04 | 3.46E-04 | 5.83E-04 | 1.29E-03 | 1.04E-03 | 2.07E-03 | 3.01E-03 | 6.61E-05 | 1.28E-04 | 0.00E+00 | 1.09E-03 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Manganese Compounds | 1.08E-05 | 1.85E-05 | 3.09E-05 | 4.56E-05 | 6.17E-05 | 8.15E | | | | | | | |

DRAFT FOR REVIEW ONLY
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 | 7-PAH | 5.14E-04 | 8.25E-04 | 1.07E-03 | 1.34E-03 | 1.42E-03 | 1.80E-03 | 2.07E-03 | 2.22E-03 | 4.38E-07 | 1.34E-03 | 3.41E-05 | 4.50E-05 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Propylene Dichloride | 1.86E-05 | 2.46E-05 | 4.89E-05 | 6.67E-05 | 1.42E-04 | 1.32E-04 | 3.12E-04 | 4.04E-04 | 2.13E-05 | 1.21E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Quinoline | 4.80E-10 | 3.77E-09 | 7.70E-09 | 1.64E-08 | 2.12E-08 | 2.99E-08 | 4.39E-08 | 5.20E-08 | 0.00E+00 | 2.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | 1,1,2,2-Tetrachloroethane | 1.61E-04 | 2.23E-04 | 4.22E-04 | 5.94E-04 | 1.29E-03 | 1.18E-03 | 2.85E-03 | 3.69E-03 | 1.95E-04 | 1.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | All Rural Counties | N/A | R | Trichloroethylene | 8.28E-02 | 8.41E-02 | 8.59E-02 | 9.01E-02 | 9.42E-02 | 9.63E-02 | 1.06E-01 | 1.16E-01 | 3.01E-03 | 1.02E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | All Rural Counties | N/A | R | Vinyl Chloride | 3.95E-04 | 5.49E-04 | 1.12E-03 | 1.56E-03 | 3.28E-03 | 2.93E-03 | 7.15E-03 | 9.09E-03 | 4.88E-04 | 2.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Acetaldehyde | 8.94E-02 | 1.20E-01 | 1.63E-01 | 1.89E-01 | 2.21E-01 | 2.64E-01 | 3.58E-01 | 4.17E-01 | 4.46E-06 | 1.42E-02 | 1.66E-01 | 4.06E-02 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Acrolein | 1.93E-02 | 2.97E-02 | 3.33E-02 | 3.88E-02 | 3.88E-02 | 4.44E-02 | 5.20E-02 | 5.74E-02 | 2.26E-07 | 4.83E-03 | 2.24E-02 | 1.16E-02 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Acrylonitrile | 3.42E-04 | 4.31E-04 | 8.24E-04 | 1.11E-03 | 2.21E-03 | 1.76E-03 | 2.39E-03 | 6.30E-03 | 1.21E-04 | 2.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Arsenic Compounds | 1.60E-05 | 2.81E-05 | 3.54E-05 | 4.11E-05 | 4.67E-05 | 5.99E-05 | 7.37E-05 | 7.66E-05 | 6.61E-07 | 1.59E-05 | 2.35E-05 | 6.61E-06 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Benzene | 8.45E-01 | 8.69E-01 | 9.27E-01 | 1.02E+00 | 1.04E+00 | 1.13E+00 | 1.23E+00 | 1.33E+00 | 3.12E-04 | 1.35E-01 | 2.32E-01 | 1.93E-01 | 4.80E-01 |
| Massachusetts | Barnstable County | 25001 | R | Benzidine | 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 County | 25001 | R | Beryllium Compounds | 5.12E-06 | 6.99E-06 | 8.76E-06 | 1.01E-05 | 1.07E-05 | 1.18E-05 | 1.48E-05 | 1.70E-05 | 1.80E-08 | 1.07E-05 | 0.00E+00 | 1.55E-09 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | 1,3-Butadiene | 1.62E-02 | 1.65E-02 | 2.18E-02 | 2.88E-02 | 3.50E-02 | 4.56E-02 | 6.59E-02 | 6.92E-02 | 0.00E+00 | 7.54E-04 | 2.02E-02 | 1.40E-02 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Cadmium Compounds | 5.64E-06 | 8.09E-06 | 1.03E-05 | 1.19E-05 | 1.24E-05 | 1.41E-05 | 1.66E-05 | 1.99E-05 | 1.40E-07 | 1.22E-05 | 0.00E+00 | 4.23E-09 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Carbon Disulfide | 4.72E-02 | 4.74E-02 | 4.75E-02 | 4.76E-02 | 4.79E-02 | 4.79E-02 | 4.81E-02 | 4.91E-02 | 1.60E-05 | 8.58E-04 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Barnstable County | 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 | 2.21E-07 | 1.45E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Barnstable County | 25001 | R | Chloroform | 8.75E-02 | 9.39E-02 | 9.56E-02 | 9.87E-02 | 9.88E-02 | 1.02E-01 | 1.05E-01 | 1.07E-01 | 1.29E-06 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Barnstable County | 25001 | R | Chromium Compounds (includes Hexavalent) | 1.37E-05 | 2.13E-05 | 2.82E-05 | 3.59E-05 | 3.90E-05 | 4.80E-05 | 6.07E-05 | 7.38E-05 | 1.51E-06 | 1.61E-05 | 1.92E-05 | 2.17E-06 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Chromium VI | 5.83E-06 | 8.28E-06 | 1.16E-05 | 1.45E-05 | 1.57E-05 | 1.99E-05 | 2.36E-05 | 2.65E-05 | 1.58E-07 | 1.70E-06 | 7.66E-06 | 7.39E-07 | 0.00E+00 |
| Massachusetts | Barnstable County | 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 County | 25001 | R | 1,4-Dichlorobenzene | 4.24E-03 | 1.02E-02 | 1.22E-02 | 1.49E-02 | 1.49E-02 | 1.79E-02 | 2.08E-02 | 2.27E-02 | 1.11E-05 | 1.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | 1,3-Dichloropropene | 8.24E-03 | 1.94E-02 | 2.34E-02 | 2.77E-02 | 2.92E-02 | 3.54E-02 | 4.17E-02 | 4.54E-02 | 0.00E+00 | 2.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 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 | 6.74E-08 | 1.16E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Barnstable County | 25001 | R | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.11E-02 | 6.11E-02 | 6.13E-02 | 6.12E-02 | 6.13E-02 | 6.18E-02 | 1.46E-05 | 2.51E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Barnstable County | 25001 | R | Ethylene Oxide | 1.45E-05 | 2.81E-05 | 3.43E-05 | 4.36E-05 | 6.62E-05 | 7.48E-05 | 9.09E-05 | 1.32E-04 | 0.00E+00 | 6.62E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Formaldehyde | 3.50E-01 | 3.99E-01 | 4.44E-01 | 4.77E-01 | 5.08E-01 | 5.69E-01 | 6.31E-01 | 7.39E-01 | 1.51E-05 | 1.42E-02 | 1.79E-01 | 6.54E-02 | 2.50E-01 |
| Massachusetts | Barnstable County | 25001 | R | Hexachlorobenzene | 9.31E-05 | 9.34E-05 | 9.34E-05 | 9.35E-05 | 9.35E-05 | 9.36E-05 | 9.37E-05 | 9.37E-05 | 0.00E+00 | 4.89E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Barnstable County | 25001 | R | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 8.40E-08 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Barnstable County | 25001 | R | Hexamethylene Diisocyanate | 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 County | 25001 | R | Hydrazine | 3.94E-10 | 5.76E-10 | 1.06E-09 | 1.68E-09 | 3.27E-09 | 3.31E-09 | 5.06E-09 | 8.90E-09 | 0.00E+00 | 3.27E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Lead Compounds | 3.45E-04 | 3.56E-04 | 5.12E-04 | 6.54E-04 | 1.63E-03 | 1.12E-03 | 2.89E-03 | 7.33E-03 | 2.95E-06 | 8.04E-05 | 0.00E+00 | 1.55E-03 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Manganese Compounds | 1.52E-05 | 2.44E-05 | 3.17E-05 | 3.84E-05 | 4.05E-05 | 4.63E-05 | 6.38E-05 | 6.74E-05 | 2.13E-06 | 3.12E-05 | 6.13E-06 | 1.05E-06 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Mercury Compounds | 1.51E-03 | 1.53E-03 | 1.54E-03 | 1.55E-03 | 1.55E-03 | 1.56E-03 | 1.57E-03 | 1.58E-03 | 3.46E-06 | 1.78E-05 | 2.37E-05 | 4.29E-06 | 1.50E-03 |
| Massachusetts | Barnstable County | 25001 | R | Methylene Chloride | 1.70E-01 | 1.85E-01 | 1.92E-01 | 2.03E-01 | 2.12E-01 | 2.22E-01 | 2.33E-01 | 3.08E-01 | 4.19E-04 | 6.15E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Barnstable County | 25001 | R | Nickel Compounds | 1.05E-04 | 1.10E-04 | 1.29E-04 | 1.47E-04 | 1.46E-04 | 1.61E-04 | 1.76E-04 | 1.84E-04 | 8.47E-05 | 4.42E-05 | 1.43E-05 | 2.53E-06 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Perchloroethylene | 1.43E-01 | 1.49E-01 | 1.52E-01 | 1.57E-01 | 1.61E-01 | 1.63E-01 | 1.73E-01 | 1.90E-01 | 2.13E-04 | 2.03E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Barnstable County | 25001 | R | Polychlorinated Biphenyls | 3.94E-04 | 4.22E-04 | 4.27E-04 | 4.36E-04 | 4.38E-04 | 4.50E-04 | 4.61E-04 | 4.68E-04 | 0.00E+00 | 5.75E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Barnstable County | 25001 | R | Polycyclic Organic Matter | 1.91E-02 | 2.52E-02 | 3.04E-02 | 3.73E-02 | 3.93E-02 | 4.86E-02 | 5.68E-02 | 6.43E-02 | 2.89E-08 | 2.97E-02 | 5.93E-03 | 3.69E-03 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | 7-PAH | 8.24E-04 | 1.02E-03 | 1.16E-03 | 1.53E-03 | 1.59E-03 | 1.95E-03 | 2.22E-03 | 2.49E-03 | 1.06E-07 | 1.48E-03 | 4.03E-05 | 6.28E-05 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Propylene Dichloride | 1.96E-05 | 2.46E-05 | 4.89E-05 | 6.58E-05 | 1.33E-04 | 1.05E-04 | 1.44E-04 | 3.81E-04 | 7.30E-06 | 1.25E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Quinoline | 2.92E-09 | 5.14E-09 | 6.18E-09 | 1.65E-08 | 2.14E-08 | 2.67E-08 | 4.22E-08 | 5.93E-08 | 0.00E+00 | 2.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | 1,1,2,2-Tetrachloroethane | 1.66E-04 | 2.12E-04 | 4.39E-04 | 5.87E-04 | 1.20E-03 | 9.58E-04 | 1.30E-03 | 3.48E-03 | 6.68E-05 | 1.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Barnstable County | 25001 | R | Trichloroethylene | 8.30E-02 | 8.45E-02 | 8.74E-02 | 9.18E-02 | 9.39E-02 | 9.73E-02 | 1.06E-01 | 1.12E-01 | 4.85E-03 | 8.00E-03 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Barnstable County | 25001 | R | Vinyl Chloride | 4.09E-04 | 5.22E-04 | 1.08E-03 | 1.45E-03 | 2.96E-03 | 2.36E-03 | 3.19E-03 | 8.57E-03 | 1.65E-04 | 2.80E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Acetaldehyde | 8.31E-02 | 9.53E-02 | 1.12E-01 | 1.66E-01 | 1.91E-01 | 2.09E-01 | 2.86E-01 | 2.98E-01 | 1.59E-05 | 1.51E-02 | 1.54E-01 | 2.24E-02 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Acrolein | 2.44E-02 | 2.60E-02 | 3.28E-02 | 3.97E-02 | 4.25E-02 | 5.21E-02 | 5.53E-02 | 6.22E-02 | 5.10E-07 | 1.82E-02 | 2.03E-02 | 4.07E-03 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Acrylonitrile | 7.68E-04 | 8.70E-04 | 1.06E-03 | 1.56E-03 | 3.09E-03 | 3.69E-03 | 6.53E-03 | 8.97E-03 | 7.27E-04 | 2.37E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Arsenic Compounds | 2.33E-05 | 2.34E-05 | 2.78E-05 | 3.73E-05 | 5.37E-05 | 6.51E-05 | 1.02E-04 | 1.21E-04 | 2.34E-06 | 2.55E-05 | 1.90E-05 | 6.88E-06 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Benzene | 6.84E-01 | 6.95E-01 | 7.27E-01 | 7.95E-01 | 8.49E-01 | 9.38E-01 | 1.02E+00 | 1.30E+00 | 2.03E-03 | 1.30E-01 | 1.68E-01 | 6.86E-02 | 4.80E-01 |
| Massachusetts | Berkshire County | 25003 | R | Benzidine | 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 County | 25003 | R | Beryllium Compounds | 4.10E-06 | 4.68E-06 | 5.89E-06 | 9.26E-06 | 1.58E-05 | 2.20E-05 | 3.44E-05 | 3.94E-05 | 4.63E-08 | 1.53E-05 | 0.00E+00 | 4.56E-07 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | 1,3-Butadiene | 8.64E-03 | 9.46E-03 | 1.14E-02 | 1.64E-02 | 2.29E-02 | 2.71E-02 | 4.50E-02 | 5.04E-02 | 0.00E+00 | 3.20E-03 | 1.32E-02 | 6.56E-03 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Cadmium Compounds | 9.96E-06 | 1.08E-05 | 1.48E-05 | 2.08E-05 | 5.24E-05 | 5.62E-05 | 1.37E-04 | 1.99E-04 | 3.44E-05 | 1.75E-05 | 0.00E+00 | 4.62E-07 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Carbon Disulfide | 4.73E-02 | 4.74E-02 | 4.75E-02 | 4.78E-02 | 4.84E-02 | 4.87E-02 | 4.97E-02 | 5.12E-02 | 9.54E-05 | 1.26E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Berkshire County | 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 | 1.33E-06 | 2.51E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Berkshire County | 25003 | R | Chloroform | 8.70E-02 | 8.74E-02 | 8.93E-02 | 9.30E-02 | 9.87E-02 | 1 | | | | | | | |

DRAFT FOR REVIEW ONLY
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 County | 25003 | R | Ethylene Oxide | 3.66E-05 | 4.84E-05 | 9.45E-05 | 1.52E-04 | 2.13E-04 | 2.31E-04 | 3.71E-04 | 4.64E-04 | 0.00E+00 | 2.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Formaldehyde | 3.72E-01 | 3.79E-01 | 4.12E-01 | 4.53E-01 | 4.95E-01 | 5.34E-01 | 6.28E-01 | 6.92E-01 | 6.95E-04 | 3.65E-02 | 1.57E-01 | 5.08E-02 | 2.50E-01 | 2.50E-01 |
| Massachusetts | Berkshire County | 25003 | R | Hexachlorobenzene | 9.32E-05 | 9.32E-05 | 9.33E-05 | 9.34E-05 | 9.35E-05 | 9.37E-05 | 9.40E-05 | 9.42E-05 | 0.00E+00 | 5.21E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | 9.30E-05 |
| Massachusetts | Berkshire County | 25003 | R | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 1.40E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.80E-03 |
| Massachusetts | Berkshire County | 25003 | R | Hexamethylene Diisocyanate | 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 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Hydrazine | 3.54E-10 | 3.67E-10 | 5.60E-10 | 1.38E-08 | 2.84E-07 | 6.36E-07 | 7.32E-07 | 7.32E-07 | 2.80E-07 | 3.37E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Lead Compounds | 1.40E-04 | 1.47E-04 | 2.36E-04 | 3.38E-04 | 6.29E-04 | 7.05E-04 | 1.38E-03 | 2.18E-03 | 1.60E-04 | 2.11E-04 | 0.00E+00 | 2.58E-04 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Manganese Compounds | 1.96E-05 | 3.09E-05 | 6.19E-05 | 9.81E-05 | 9.97E-05 | 1.23E-04 | 1.61E-04 | 1.90E-04 | 2.76E-06 | 9.13E-05 | 4.76E-06 | 8.24E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Mercury Compounds | 1.55E-03 | 1.55E-03 | 1.56E-03 | 1.59E-03 | 1.71E-03 | 1.73E-03 | 2.03E-03 | 2.29E-03 | 1.62E-04 | 2.40E-05 | 1.95E-05 | 5.88E-06 | 1.50E-03 | 1.50E-03 |
| Massachusetts | Berkshire County | 25003 | R | Methylene Chloride | 1.70E-01 | 1.75E-01 | 1.81E-01 | 2.02E-01 | 2.41E-01 | 2.58E-01 | 3.13E-01 | 4.36E-01 | 2.60E-03 | 8.83E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 1.50E-01 |
| Massachusetts | Berkshire County | 25003 | R | Nickel Compounds | 8.14E-05 | 8.25E-05 | 1.11E-04 | 2.04E-04 | 4.47E-04 | 4.91E-04 | 1.39E-03 | 1.63E-03 | 2.46E-04 | 1.87E-04 | 1.12E-05 | 2.89E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Perchloroethylene | 1.48E-01 | 1.49E-01 | 1.55E-01 | 1.70E-01 | 1.81E-01 | 2.02E-01 | 2.22E-01 | 2.38E-01 | 1.32E-03 | 3.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.40E-01 |
| Massachusetts | Berkshire County | 25003 | R | Polychlorinated Biphenyls | 4.02E-04 | 4.07E-04 | 4.13E-04 | 4.29E-04 | 4.43E-04 | 4.64E-04 | 5.02E-04 | 5.29E-04 | 0.00E+00 | 6.32E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | 3.80E-04 |
| Massachusetts | Berkshire County | 25003 | R | Polycyclic Organic Matter | 2.03E-02 | 2.10E-02 | 2.64E-02 | 3.18E-02 | 3.89E-02 | 4.54E-02 | 6.37E-02 | 7.44E-02 | 9.92E-08 | 3.31E-02 | 4.81E-03 | 1.02E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | 7-PAH | 9.22E-04 | 9.98E-04 | 1.08E-03 | 1.17E-03 | 1.37E-03 | 1.75E-03 | 1.98E-03 | 2.06E-03 | 9.51E-07 | 1.32E-03 | 3.29E-05 | 1.38E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Propylene Dichloride | 4.58E-05 | 4.96E-05 | 6.06E-05 | 9.17E-05 | 1.83E-04 | 2.20E-04 | 3.85E-04 | 5.38E-04 | 4.38E-05 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Quinoline | 7.63E-09 | 7.70E-09 | 1.05E-08 | 1.95E-08 | 2.48E-08 | 3.22E-08 | 4.83E-08 | 5.01E-08 | 0.00E+00 | 2.48E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | 1,1,2,2-Tetrachloroethane | 4.04E-04 | 4.15E-04 | 5.46E-04 | 8.32E-04 | 1.65E-03 | 2.01E-03 | 3.45E-03 | 4.89E-03 | 4.02E-04 | 1.25E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Berkshire County | 25003 | R | Trichloroethylene | 8.42E-02 | 8.46E-02 | 8.55E-02 | 8.66E-02 | 9.66E-02 | 1.02E-01 | 1.11E-01 | 1.38E-01 | 8.40E-04 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | 8.10E-02 |
| Massachusetts | Berkshire County | 25003 | R | Vinyl Chloride | 1.11E-03 | 1.20E-03 | 1.56E-03 | 2.38E-03 | 4.34E-03 | 5.15E-03 | 8.89E-03 | 1.23E-02 | 1.01E-03 | 3.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Acetaldehyde | 2.19E-01 | 2.67E-01 | 3.83E-01 | 5.16E-01 | 5.55E-01 | 6.97E-01 | 8.56E-01 | 9.68E-01 | 1.17E-04 | 3.17E-02 | 4.51E-01 | 7.26E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Acrolein | 5.08E-02 | 6.29E-02 | 7.23E-02 | 8.48E-02 | 8.70E-02 | 1.03E-01 | 1.12E-01 | 1.17E-01 | 7.37E-06 | 1.33E-02 | 6.08E-02 | 1.29E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Acrylonitrile | 1.77E-03 | 1.99E-03 | 2.32E-03 | 3.32E-03 | 4.02E-03 | 4.25E-03 | 5.62E-03 | 7.66E-03 | 2.14E-03 | 1.89E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Arsenic Compounds | 6.93E-05 | 8.96E-05 | 1.17E-04 | 1.44E-04 | 1.56E-04 | 1.87E-04 | 2.38E-04 | 2.73E-04 | 1.74E-05 | 5.88E-05 | 6.45E-05 | 1.57E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Benzene | 9.02E-01 | 1.03E+00 | 1.16E+00 | 1.31E+00 | 1.39E+00 | 1.61E+00 | 1.87E+00 | 1.98E+00 | 5.72E-03 | 1.22E-01 | 6.29E-01 | 1.54E-01 | 4.80E-01 | 4.80E-01 |
| Massachusetts | Bristol County | 25005 | U | Benzidine | 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 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Beryllium Compounds | 2.09E-05 | 2.42E-05 | 3.65E-05 | 5.11E-05 | 1.31E-04 | 1.91E-04 | 3.73E-04 | 4.26E-04 | 1.57E-06 | 1.29E-04 | 0.00E+00 | 9.09E-08 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | 1,3-Butadiene | 1.85E-02 | 2.37E-02 | 3.77E-02 | 5.66E-02 | 6.93E-02 | 8.74E-02 | 1.36E-01 | 1.56E-01 | 2.44E-09 | 8.17E-04 | 5.49E-02 | 1.35E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Cadmium Compounds | 4.11E-05 | 4.89E-05 | 6.34E-05 | 7.85E-05 | 1.19E-04 | 1.25E-04 | 2.26E-04 | 3.72E-04 | 2.45E-06 | 1.76E-04 | 0.00E+00 | 4.18E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Carbon Disulfide | 4.86E-02 | 4.91E-02 | 4.97E-02 | 5.04E-02 | 5.33E-02 | 5.34E-02 | 6.19E-02 | 6.84E-02 | 2.84E-04 | 6.06E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 | 4.70E-02 |
| Massachusetts | Bristol County | 25005 | 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 | 3.91E-06 | 4.00E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 | 8.80E-01 |
| Massachusetts | Bristol County | 25005 | U | Chloroform | 1.08E-01 | 1.10E-01 | 1.21E-01 | 1.38E-01 | 1.44E-01 | 1.60E-01 | 1.87E-01 | 2.05E-01 | 2.28E-05 | 6.14E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 | 8.30E-02 |
| Massachusetts | Bristol County | 25005 | U | Chromium Compounds (includes Hexavalent) | 1.26E-04 | 1.59E-04 | 2.12E-04 | 3.45E-04 | 6.04E-04 | 4.90E-04 | 9.39E-04 | 1.78E-03 | 4.21E-04 | 1.27E-04 | 5.39E-05 | 3.18E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Chromium VI | 3.60E-05 | 4.92E-05 | 6.51E-05 | 1.01E-04 | 1.31E-04 | 1.33E-04 | 1.93E-04 | 2.76E-04 | 5.81E-05 | 5.05E-05 | 2.15E-05 | 1.08E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 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 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | 1,4-Dichlorobenzene | 2.61E-02 | 2.80E-02 | 4.07E-02 | 5.23E-02 | 6.10E-02 | 7.53E-02 | 1.02E-01 | 1.18E-01 | 1.96E-04 | 6.08E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | 1,3-Dichloropropene | 5.30E-02 | 5.67E-02 | 8.34E-02 | 1.10E-01 | 1.27E-01 | 1.56E-01 | 2.09E-01 | 2.46E-01 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 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 | 1.19E-06 | 2.03E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 | 7.70E-03 |
| Massachusetts | Bristol County | 25005 | U | Ethylene Dichloride | 6.12E-02 | 6.12E-02 | 6.13E-02 | 6.14E-02 | 6.15E-02 | 6.15E-02 | 6.17E-02 | 6.19E-02 | 2.59E-04 | 2.32E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 | 6.10E-02 |
| Massachusetts | Bristol County | 25005 | U | Ethylene Oxide | 7.34E-04 | 8.51E-04 | 1.04E-03 | 1.44E-03 | 1.76E-03 | 2.28E-03 | 2.83E-03 | 4.05E-03 | 0.00E+00 | 1.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Formaldehyde | 4.92E-01 | 6.02E-01 | 7.20E-01 | 8.59E-01 | 9.09E-01 | 1.08E+00 | 1.28E+00 | 1.43E+00 | 9.53E-05 | 3.25E-02 | 4.91E-01 | 1.35E-01 | 2.50E-01 | 2.50E-01 |
| Massachusetts | Bristol County | 25005 | U | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.32E-05 | 0.00E+00 | 1.18E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | 9.30E-05 |
| Massachusetts | Bristol County | 25005 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 2.14E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.80E-03 |
| Massachusetts | Bristol County | 25005 | U | Hexamethylene Diisocyanate | 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 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Hydrazine | 6.15E-08 | 8.58E-08 | 1.18E-07 | 2.27E-07 | 5.35E-07 | 5.46E-07 | 1.66E-06 | 2.30E-06 | 0.00E+00 | 5.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Lead Compounds | 6.45E-04 | 9.40E-04 | 1.15E-03 | 1.38E-03 | 1.64E-03 | 1.91E-03 | 2.83E-03 | 3.43E-03 | 2.51E-05 | 8.97E-04 | 0.00E+00 | 7.22E-04 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Manganese Compounds | 8.53E-05 | 1.13E-04 | 1.35E-04 | 1.62E-04 | 1.75E-04 | 1.99E-04 | 2.67E-04 | 3.09E-04 | 4.69E-05 | 1.06E-04 | 1.72E-05 | 4.53E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Mercury Compounds | 1.57E-03 | 1.59E-03 | 1.61E-03 | 1.64E-03 | 1.65E-03 | 1.69E-03 | 1.73E-03 | 1.76E-03 | 8.01E-06 | 6.72E-05 | 6.40E-05 | 1.34E-05 | 1.50E-03 | 1.50E-03 |
| Massachusetts | Bristol County | 25005 | U | Methylene Chloride | 2.53E-01 | 2.66E-01 | 3.08E-01 | 3.73E-01 | 4.20E-01 | 4.87E-01 | 6.07E-01 | 6.91E-01 | 7.78E-03 | 2.62E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 1.50E-01 |
| Massachusetts | Bristol County | 25005 | U | Nickel Compounds | 2.53E-04 | 3.05E-04 | 4.21E-04 | 5.17E-04 | 7.49E-04 | 7.33E-04 | 1.19E-03 | 2.51E-03 | 2.75E-04 | 3.69E-04 | 3.99E-05 | 6.49E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | Perchloroethylene | 1.60E-01 | 1.69E-01 | 1.81E-01 | 1.88E-01 | 1.89E-01 | 1.98E-01 | 2.11E-01 | 2.21E-01 | 3.87E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.40E-01 |
| Massachusetts | Bristol County | 25005 | U | Polychlorinated Biphenyls | 3.88E-04 | 3.88E-04 | 3.89E-04 | 3.92E-04 | 3.92E-04 | 3.95E-04 | 3.97E-04 | 3.99E-04 | 0.00E+00 | 1.22E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | 3.80E-04 |
| Massachusetts | Bristol County | 25005 | U | Polycyclic Organic Matter | 3.61E-02 | 4.65E-02 | 5.94E-02 | 7.51E-02 | 8.00E-02 | 9.13E-02 | 1.15E-01 | 1.30E-01 | 2.39E-05 | 6.05E-02 | 1.67E-02 | 2.79E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Bristol County | 25005 | U | | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
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 County | 25007 | R | Benzidine | 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 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Beryllium Compounds | 2.55E-06 | 2.55E-06 | 2.75E-06 | 4.35E-06 | 4.66E-06 | 6.58E-06 | 7.39E-06 | 7.39E-06 | 3.41E-12 | 4.66E-06 | 0.00E+00 | 1.13E-09 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | 1,3-Butadiene | 8.11E-03 | 8.11E-03 | 1.09E-02 | 1.73E-02 | 1.70E-02 | 2.31E-02 | 2.53E-02 | 2.53E-02 | 0.00E+00 | 5.18E-04 | 3.39E-03 | 1.31E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Cadmium Compounds | 3.15E-06 | 3.15E-06 | 3.32E-06 | 5.09E-06 | 5.47E-06 | 7.62E-06 | 8.55E-06 | 8.55E-06 | 6.60E-08 | 5.40E-06 | 0.00E+00 | 5.12E-09 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Carbon Disulfide | 4.72E-02 | 4.72E-02 | 4.72E-02 | 4.73E-02 | 4.73E-02 | 4.73E-02 | 4.73E-02 | 4.73E-02 | 0.00E+00 | 2.58E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Dukes County | 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 | 0.00E+00 | 3.94E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Dukes County | 25007 | R | Chloroform | 8.78E-02 | 8.78E-02 | 8.94E-02 | 9.54E-02 | 9.58E-02 | 1.02E-01 | 1.05E-01 | 1.05E-01 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Dukes County | 25007 | R | Chromium Compounds (includes Hexavalent) | 8.63E-06 | 8.63E-06 | 8.96E-06 | 1.29E-05 | 1.37E-05 | 1.85E-05 | 2.05E-05 | 2.05E-05 | 1.06E-07 | 5.83E-06 | 5.66E-06 | 2.14E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Chromium VI | 3.39E-06 | 3.39E-06 | 3.50E-06 | 4.95E-06 | 5.28E-06 | 7.05E-06 | 7.81E-06 | 7.81E-06 | 6.39E-09 | 2.32E-06 | 2.23E-06 | 7.27E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 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 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | 1,4-Dichlorobenzene | 3.33E-03 | 3.33E-03 | 3.64E-03 | 5.76E-03 | 6.11E-03 | 8.59E-03 | 9.61E-03 | 9.61E-03 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | 1,3-Dichloropropene | 6.17E-03 | 6.17E-03 | 6.77E-03 | 1.10E-02 | 1.17E-02 | 1.67E-02 | 1.88E-02 | 1.88E-02 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 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 | 0.00E+00 | 3.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Dukes County | 25007 | 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 | 0.00E+00 | 6.57E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Dukes County | 25007 | R | Ethylene Oxide | 1.44E-05 | 1.44E-05 | 1.77E-05 | 2.97E-05 | 3.12E-05 | 4.47E-05 | 5.10E-05 | 5.10E-05 | 0.00E+00 | 3.12E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Formaldehyde | 3.29E-01 | 3.29E-01 | 3.30E-01 | 3.53E-01 | 3.59E-01 | 3.87E-01 | 4.00E-01 | 4.00E-01 | 9.41E-06 | 8.57E-03 | 5.52E-02 | 4.50E-02 | 2.50E-01 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.33E-05 | 9.33E-05 | 9.34E-05 | 9.35E-05 | 9.35E-05 | 0.00E+00 | 2.92E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Dukes County | 25007 | R | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 2.23E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Dukes County | 25007 | R | Hexamethylene Diisocyanate | 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 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Hydrazine | 4.43E-10 | 4.43E-10 | 5.61E-10 | 6.65E-10 | 6.65E-10 | 8.47E-10 | 8.47E-10 | 8.47E-10 | 0.00E+00 | 6.65E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Lead Compounds | 5.25E-04 | 5.25E-04 | 6.10E-04 | 7.09E-04 | 8.89E-04 | 1.17E-03 | 1.61E-03 | 1.61E-03 | 2.06E-06 | 2.69E-05 | 0.00E+00 | 8.60E-04 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Manganese Compounds | 9.73E-06 | 9.73E-06 | 1.03E-05 | 1.53E-05 | 1.64E-05 | 2.25E-05 | 2.52E-05 | 2.52E-05 | 3.23E-07 | 1.35E-05 | 1.64E-06 | 8.94E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Mercury Compounds | 1.51E-03 | 1.51E-03 | 1.51E-03 | 1.52E-03 | 1.52E-03 | 1.53E-03 | 1.53E-03 | 1.53E-03 | 2.46E-06 | 7.20E-06 | 6.73E-06 | 2.47E-06 | 1.50E-03 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Methylene Chloride | 1.65E-01 | 1.65E-01 | 1.65E-01 | 1.68E-01 | 1.69E-01 | 1.72E-01 | 1.74E-01 | 1.74E-01 | 0.00E+00 | 1.88E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Dukes County | 25007 | R | Nickel Compounds | 5.71E-05 | 5.71E-05 | 7.72E-05 | 1.01E-04 | 9.29E-05 | 1.09E-04 | 1.13E-04 | 1.13E-04 | 6.33E-05 | 2.29E-05 | 4.13E-06 | 2.61E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Perchloroethylene | 1.59E-01 | 1.59E-01 | 1.62E-01 | 1.86E-01 | 1.92E-01 | 2.22E-01 | 2.37E-01 | 2.37E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Polychlorinated Biphenyls | 3.94E-04 | 3.94E-04 | 3.99E-04 | 4.15E-04 | 4.15E-04 | 4.30E-04 | 4.35E-04 | 4.35E-04 | 0.00E+00 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Dukes County | 25007 | R | Polycyclic Organic Matter | 1.09E-02 | 1.09E-02 | 1.24E-02 | 1.76E-02 | 1.83E-02 | 2.42E-02 | 2.73E-02 | 2.73E-02 | 5.51E-10 | 1.44E-02 | 1.76E-03 | 2.14E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | 7-PAH | 5.14E-04 | 5.14E-04 | 5.81E-04 | 8.47E-04 | 8.91E-04 | 1.20E-03 | 1.36E-03 | 1.36E-03 | 7.55E-08 | 8.12E-04 | 1.13E-05 | 6.80E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Propylene Dichloride | 2.89E-05 | 2.89E-05 | 3.00E-05 | 3.21E-05 | 3.24E-05 | 3.48E-05 | 3.65E-05 | 3.65E-05 | 0.00E+00 | 3.24E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Quinoline | 9.46E-09 | 9.46E-09 | 1.14E-08 | 1.35E-08 | 1.31E-08 | 1.48E-08 | 1.60E-08 | 1.60E-08 | 0.00E+00 | 1.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | 1,1,2,2-Tetrachloroethane | 2.61E-04 | 2.61E-04 | 2.71E-04 | 2.89E-04 | 2.92E-04 | 3.14E-04 | 3.31E-04 | 3.31E-04 | 0.00E+00 | 2.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Dukes County | 25007 | R | Trichloroethylene | 8.83E-02 | 8.83E-02 | 8.91E-02 | 9.01E-02 | 9.00E-02 | 9.08E-02 | 9.14E-02 | 9.14E-02 | 6.29E-03 | 2.68E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Dukes County | 25007 | R | Vinyl Chloride | 6.44E-04 | 6.44E-04 | 6.67E-04 | 7.12E-04 | 7.21E-04 | 7.74E-04 | 8.14E-04 | 8.14E-04 | 0.00E+00 | 7.21E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Acetaldehyde | 3.54E-01 | 4.08E-01 | 5.09E-01 | 5.84E-01 | 6.55E-01 | 7.70E-01 | 1.01E+00 | 1.15E+00 | 5.76E-05 | 3.87E-02 | 5.11E-01 | 1.06E-01 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Acrolein | 5.97E-02 | 6.89E-02 | 8.81E-02 | 9.92E-02 | 1.02E-01 | 1.16E-01 | 1.38E-01 | 1.48E-01 | 1.66E-06 | 1.29E-02 | 7.16E-02 | 1.75E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Acrylonitrile | 1.52E-03 | 1.64E-03 | 1.85E-03 | 2.39E-03 | 3.77E-03 | 3.18E-03 | 4.59E-03 | 7.17E-03 | 2.11E-03 | 1.66E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Arsenic Compounds | 1.23E-04 | 1.52E-04 | 1.85E-04 | 2.20E-04 | 2.32E-04 | 2.71E-04 | 3.23E-04 | 3.36E-04 | 7.10E-05 | 6.96E-05 | 6.73E-05 | 2.40E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Benzene | 1.03E+00 | 1.09E+00 | 1.24E+00 | 1.38E+00 | 1.47E+00 | 1.69E+00 | 1.99E+00 | 2.19E+00 | 6.22E-03 | 1.25E-01 | 6.68E-01 | 1.95E-01 | 4.80E-01 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Benzidine | 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 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Beryllium Compounds | 5.07E-05 | 6.88E-05 | 1.00E-04 | 1.32E-04 | 1.55E-04 | 1.98E-04 | 2.69E-04 | 2.91E-04 | 6.82E-07 | 1.54E-04 | 0.00E+00 | 4.66E-08 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | 1,3-Butadiene | 2.34E-02 | 3.05E-02 | 3.98E-02 | 5.74E-02 | 6.78E-02 | 8.57E-02 | 1.27E-01 | 1.48E-01 | 0.00E+00 | 5.94E-04 | 5.00E-02 | 1.71E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Cadmium Compounds | 2.43E-05 | 3.02E-05 | 3.92E-05 | 4.88E-05 | 5.26E-05 | 6.45E-05 | 7.91E-05 | 9.44E-05 | 2.35E-06 | 5.01E-05 | 0.00E+00 | 1.32E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Carbon Disulfide | 4.93E-02 | 4.96E-02 | 5.04E-02 | 5.22E-02 | 5.36E-02 | 5.48E-02 | 5.89E-02 | 6.69E-02 | 2.79E-04 | 6.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Essex County | 25009 | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.82E-01 | 8.82E-01 | 3.87E-06 | 8.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Essex County | 25009 | U | Chloroform | 1.14E-01 | 1.24E-01 | 1.44E-01 | 1.64E-01 | 1.77E-01 | 1.97E-01 | 2.47E-01 | 2.89E-01 | 2.27E-05 | 9.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Essex County | 25009 | U | Chromium Compounds (includes Hexavalent) | 1.26E-04 | 1.45E-04 | 1.87E-04 | 2.29E-04 | 2.81E-04 | 3.08E-04 | 4.48E-04 | 7.12E-04 | 2.10E-05 | 2.02E-04 | 5.59E-05 | 2.90E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Chromium VI | 4.53E-05 | 5.00E-05 | 7.32E-05 | 9.24E-05 | 1.09E-04 | 1.13E-04 | 1.71E-04 | 2.49E-04 | 2.04E-06 | 8.40E-05 | 2.24E-05 | 9.85E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 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 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | 1,4-Dichlorobenzene | 2.16E-02 | 2.96E-02 | 4.14E-02 | 5.36E-02 | 6.42E-02 | 7.51E-02 | 1.12E-01 | 1.45E-01 | 1.94E-04 | 6.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | 1,3-Dichloropropene | 4.34E-02 | 5.74E-02 | 7.95E-02 | 1.05E-01 | 1.29E-01 | 1.55E-01 | 2.28E-01 | 2.93E-01 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Ethylene Dibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.71E-03 | 1.18E-06 | 1.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Essex County | 25009 | U | Ethylene Dichloride | 6.12E-02 | 6.12E-02 | 6.13E-02 | 6.13E-02 | 6.16E-02 | 6.15E-02 | 6.19E-02 | 6.25E-02 | 2.55E-04 | 3.70E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Essex County | 25009 | U | | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
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 | Essex County | 25009 | U | Perchloroethylene | 1.76E-01 | 1.88E-01 | 2.09E-01 | 2.30E-01 | 2.36E-01 | 2.54E-01 | 2.86E-01 | 3.27E-01 | 3.82E-03 | 9.22E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Essex County | 25009 | U | Polychlorinated Biphenyls | 3.84E-04 | 3.89E-04 | 3.90E-04 | 3.93E-04 | 4.01E-04 | 4.15E-04 | 4.22E-04 | 4.32E-04 | 0.00E+00 | 2.14E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Essex County | 25009 | U | Polycyclic Organic Matter | 3.90E-02 | 5.07E-02 | 6.83E-02 | 8.24E-02 | 9.25E-02 | 1.14E-01 | 1.41E-01 | 1.63E-01 | 1.53E-03 | 7.05E-02 | 1.71E-02 | 3.43E-03 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | 7-PAH | 7.16E-04 | 7.62E-04 | 9.21E-04 | 1.27E-03 | 1.35E-03 | 1.74E-03 | 1.92E-03 | 2.20E-03 | 1.35E-07 | 1.19E-03 | 1.16E-04 | 4.07E-05 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Propylene Dichloride | 8.31E-05 | 9.25E-05 | 1.03E-04 | 1.38E-04 | 2.23E-04 | 1.95E-04 | 2.75E-04 | 4.31E-04 | 1.28E-04 | 9.51E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Quinoline | 2.03E-07 | 2.56E-07 | 3.19E-07 | 5.38E-07 | 8.91E-07 | 9.42E-07 | 1.44E-06 | 3.32E-06 | 0.00E+00 | 8.91E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | 1,1,2,2-Tetrachloroethane | 6.68E-04 | 7.13E-04 | 7.51E-04 | 1.17E-03 | 1.89E-03 | 1.56E-03 | 2.43E-03 | 3.81E-03 | 1.17E-03 | 7.18E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Essex County | 25009 | U | Trichloroethylene | 1.09E-01 | 1.19E-01 | 1.29E-01 | 1.46E-01 | 1.54E-01 | 1.73E-01 | 1.99E-01 | 2.17E-01 | 1.80E-02 | 5.55E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Essex County | 25009 | U | Vinyl Chloride | 1.68E-03 | 1.77E-03 | 1.87E-03 | 2.89E-03 | 4.67E-03 | 3.87E-03 | 6.00E-03 | 9.39E-03 | 2.88E-03 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Acetaldehyde | 8.48E-02 | 1.60E-01 | 2.11E-01 | 3.26E-01 | 3.46E-01 | 4.69E-01 | 6.32E-01 | 6.73E-01 | 4.19E-06 | 2.80E-02 | 2.74E-01 | 4.32E-02 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Acrolein | 1.79E-02 | 2.83E-02 | 3.33E-02 | 4.53E-02 | 4.91E-02 | 6.20E-02 | 8.00E-02 | 8.18E-02 | 2.93E-02 | 9.81E-03 | 3.49E-02 | 4.36E-03 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Acrylonitrile | 6.85E-04 | 7.57E-04 | 1.05E-03 | 2.07E-03 | 2.93E-03 | 3.49E-03 | 5.68E-03 | 1.35E-02 | 9.75E-04 | 1.96E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Arsenic Compounds | 1.21E-05 | 2.32E-05 | 3.09E-05 | 5.53E-05 | 6.39E-05 | 8.10E-05 | 1.51E-04 | 1.66E-04 | 4.34E-07 | 2.06E-05 | 3.79E-05 | 4.94E-06 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Benzene | 6.41E-01 | 7.23E-01 | 7.85E-01 | 9.60E-01 | 9.78E-01 | 1.11E+00 | 1.43E+00 | 1.49E+00 | 2.52E-03 | 1.12E-01 | 3.17E-01 | 6.58E-02 | 4.80E-01 |
| Massachusetts | Franklin County | 25011 | U | Benzidine | 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 County | 25011 | U | Beryllium Compounds | 2.66E-06 | 5.41E-06 | 6.43E-06 | 9.79E-06 | 1.37E-05 | 1.53E-05 | 3.82E-05 | 4.75E-05 | 2.28E-08 | 1.37E-05 | 0.00E+00 | 5.28E-08 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | 1,3-Butadiene | 8.01E-03 | 1.10E-02 | 1.25E-02 | 3.13E-02 | 3.55E-02 | 4.76E-02 | 8.77E-02 | 9.63E-02 | 0.00E+00 | 1.61E-03 | 2.89E-02 | 4.97E-03 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Cadmium Compounds | 5.86E-06 | 6.90E-06 | 7.95E-06 | 1.08E-05 | 1.53E-05 | 1.67E-05 | 4.04E-05 | 5.03E-05 | 3.38E-07 | 1.49E-05 | 0.00E+00 | 5.23E-08 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Carbon Disulfide | 4.72E-02 | 4.74E-02 | 4.76E-02 | 4.79E-02 | 5.03E-02 | 4.89E-02 | 6.63E-02 | 6.64E-02 | 1.28E-04 | 3.17E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Franklin County | 25011 | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.80E-01 | 8.85E-01 | 8.85E-01 | 1.79E-06 | 7.09E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Franklin County | 25011 | U | Chloroform | 8.65E-02 | 8.95E-02 | 9.11E-02 | 9.51E-02 | 1.06E-01 | 1.05E-01 | 1.43E-01 | 1.85E-01 | 1.04E-05 | 2.27E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Franklin County | 25011 | U | Chromium Compounds (includes Hexavalent) | 4.47E-05 | 6.49E-05 | 7.85E-05 | 1.97E-04 | 2.01E-04 | 2.61E-04 | 4.00E-04 | 5.46E-04 | 2.61E-06 | 1.68E-04 | 3.06E-05 | 6.91E-07 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Chromium VI | 1.04E-05 | 2.19E-05 | 2.54E-05 | 5.99E-05 | 5.75E-05 | 7.83E-05 | 1.02E-04 | 1.39E-04 | 1.72E-07 | 4.50E-05 | 1.22E-05 | 2.35E-07 | 0.00E+00 |
| Massachusetts | Franklin County | 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 County | 25011 | U | 1,4-Dichlorobenzene | 3.34E-03 | 6.61E-03 | 7.63E-03 | 1.26E-02 | 1.89E-02 | 2.08E-02 | 4.66E-02 | 7.34E-02 | 8.96E-05 | 1.88E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | 1,3-Dichloropropene | 6.30E-03 | 1.24E-02 | 1.50E-02 | 2.29E-02 | 3.71E-02 | 4.12E-02 | 9.41E-02 | 1.47E-01 | 0.00E+00 | 3.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 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 | 7.71E-03 | 5.45E-07 | 1.03E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Franklin County | 25011 | U | Ethylene Dichloride | 6.11E-02 | 6.11E-02 | 6.11E-02 | 6.12E-02 | 6.13E-02 | 6.13E-02 | 6.17E-02 | 6.26E-02 | 1.18E-04 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Franklin County | 25011 | U | Ethylene Oxide | 4.12E-05 | 4.48E-05 | 1.07E-04 | 1.24E-03 | 1.56E-03 | 1.90E-03 | 3.64E-03 | 7.05E-03 | 0.00E+00 | 1.56E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Formaldehyde | 3.65E-01 | 4.47E-01 | 5.04E-01 | 6.30E-01 | 6.62E-01 | 8.62E-01 | 9.39E-01 | 9.62E-01 | 5.64E-03 | 3.64E-02 | 3.05E-01 | 6.56E-02 | 2.50E-01 |
| Massachusetts | Franklin County | 25011 | U | Hexachlorobenzene | 9.31E-05 | 9.33E-05 | 9.34E-05 | 9.35E-05 | 9.39E-05 | 9.41E-05 | 9.51E-05 | 9.58E-05 | 0.00E+00 | 8.53E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Franklin County | 25011 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 4.23E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Franklin County | 25011 | U | Hexamethylene Diisocyanate | 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 County | 25011 | U | Hydrazine | 1.09E-09 | 1.87E-09 | 2.00E-09 | 3.86E-09 | 1.37E-08 | 6.21E-09 | 7.58E-08 | 8.97E-08 | 0.00E+00 | 1.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Lead Compounds | 7.45E-05 | 1.57E-04 | 2.44E-04 | 5.08E-04 | 8.00E-04 | 1.50E-03 | 4.61E-03 | 1.58E-03 | 1.76E-06 | 1.97E-04 | 0.00E+00 | 6.02E-04 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Manganese Compounds | 1.96E-05 | 3.67E-05 | 4.33E-05 | 5.03E-05 | 6.17E-05 | 6.92E-05 | 1.32E-04 | 1.54E-04 | 5.36E-07 | 5.09E-05 | 9.73E-06 | 5.31E-07 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Mercury Compounds | 1.53E-03 | 1.53E-03 | 1.53E-03 | 1.56E-03 | 1.57E-03 | 1.58E-03 | 1.66E-03 | 1.66E-03 | 1.64E-06 | 2.15E-05 | 3.83E-05 | 3.90E-06 | 1.50E-03 |
| Massachusetts | Franklin County | 25011 | U | Methylene Chloride | 1.65E-01 | 1.79E-01 | 1.87E-01 | 2.13E-01 | 2.52E-01 | 2.46E-01 | 4.14E-01 | 5.84E-01 | 3.41E-03 | 9.88E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Franklin County | 25011 | U | Nickel Compounds | 9.57E-05 | 1.02E-04 | 2.16E-04 | 3.52E-04 | 3.96E-04 | 4.95E-04 | 7.70E-04 | 1.03E-03 | 2.13E-06 | 3.70E-04 | 2.28E-05 | 8.94E-07 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Perchloroethylene | 1.45E-01 | 1.48E-01 | 1.52E-01 | 1.61E-01 | 1.68E-01 | 1.74E-01 | 1.98E-01 | 2.28E-01 | 1.73E-03 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Franklin County | 25011 | U | Polychlorinated Biphenyls | 3.96E-04 | 4.12E-04 | 4.28E-04 | 4.41E-04 | 4.80E-04 | 5.15E-04 | 6.26E-04 | 7.06E-04 | 0.00E+00 | 1.00E-04 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Franklin County | 25011 | U | Polycyclic Organic Matter | 1.65E-02 | 1.93E-02 | 2.47E-02 | 3.43E-02 | 3.82E-02 | 4.12E-02 | 7.29E-02 | 9.36E-02 | 2.35E-08 | 2.81E-02 | 9.31E-03 | 7.86E-04 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | 7-PAH | 6.31E-04 | 8.33E-04 | 8.70E-04 | 9.43E-04 | 1.10E-03 | 1.22E-03 | 1.84E-03 | 2.19E-03 | 9.12E-09 | 1.02E-03 | 6.39E-05 | 1.33E-05 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Propylene Dichloride | 4.14E-05 | 4.59E-05 | 6.32E-05 | 1.24E-04 | 1.71E-04 | 1.86E-04 | 3.43E-04 | 8.16E-04 | 5.90E-05 | 1.12E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Quinoline | 2.09E-08 | 3.31E-08 | 4.96E-08 | 5.65E-08 | 8.25E-08 | 7.92E-08 | 2.44E-07 | 2.79E-07 | 0.00E+00 | 8.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | 1,1,2,2-Tetrachloroethane | 3.76E-04 | 4.11E-04 | 5.70E-04 | 1.11E-03 | 1.49E-03 | 1.46E-03 | 3.13E-03 | 7.45E-03 | 5.41E-04 | 9.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Franklin County | 25011 | U | Trichloroethylene | 8.33E-02 | 8.88E-02 | 8.91E-02 | 9.85E-02 | 1.10E-01 | 1.14E-01 | 1.50E-01 | 2.26E-01 | 1.40E-03 | 2.76E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Franklin County | 25011 | U | Vinyl Chloride | 9.29E-04 | 1.01E-03 | 1.40E-03 | 2.73E-03 | 3.68E-03 | 3.59E-03 | 7.70E-03 | 1.84E-02 | 1.33E-03 | 2.35E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Acetaldehyde | 2.90E-01 | 3.86E-01 | 4.80E-01 | 6.52E-01 | 7.61E-01 | 9.96E-01 | 1.37E+00 | 1.55E+00 | 4.33E-05 | 3.85E-02 | 6.39E-01 | 8.30E-02 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Acrolein | 5.33E-02 | 6.90E-02 | 8.04E-02 | 1.01E-01 | 1.02E-01 | 1.22E-01 | 1.39E-01 | 1.50E-01 | 1.55E-06 | 1.42E-02 | 7.54E-02 | 1.22E-02 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Acrylonitrile | 1.52E-03 | 2.18E-03 | 3.07E-03 | 5.02E-03 | 9.38E-03 | 8.08E-03 | 1.14E-02 | 1.40E-02 | 6.77E-03 | 2.61E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Arsenic Compounds | 6.18E-05 | 9.18E-05 | 1.11E-04 | 1.47E-04 | 1.61E-04 | 1.97E-04 | 2.62E-04 | 2.79E-04 | 2.28E-06 | 6.83E-05 | 7.77E-05 | 1.30E-05 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Benzene | 8.46E-01 | 1.04E+00 | 1.10E+00 | 1.30E+00 | 1.42E+00 | 1.59E+00 | 2.02E+00 | 2.22E+00 | 1.75E-02 | 1.07E-01 | 6.81E-01 | 1.33E-01 | 4.80E-01 |
| Massachusetts | Hampden County | 25013 | U | Benzidine | 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 County | 25013 | U | Beryllium Compounds | 2.13E-05 | 2.56E-05 | 3.25E-05 | 4.02E-05 | 4.24E-05 | 5.00E-05 | 6.12E-05 | 7.66E-05 | 1.08E-07 | 4.15E-05 | 0.00E+00 | 7.58E-07 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | 1,3-Butadiene | 2.10E-02 | 2.66E-02 | 3.72E-02 | 5.79E-02 | 7.81E-02 | 1.01E-01 | 1.65E-01 | 1.62E-11 | 8.11E-04 | 6.43E-02 | 1.31E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 2 | | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
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 County | 25013 | U | 1,3-Dichloropropene | 4.02E-02 | 5.08E-02 | 7.61E-02 | 1.05E-01 | 1.11E-01 | 1.28E-01 | 1.83E-01 | 2.16E-01 | 0.00E+00 | 1.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | 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 | 3.78E-06 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Hampden County | 25013 | U | Ethylene Dichloride | 6.12E-02 | 6.13E-02 | 6.14E-02 | 6.16E-02 | 6.21E-02 | 6.19E-02 | 6.23E-02 | 6.27E-02 | 8.18E-04 | 3.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Hampden County | 25013 | U | Ethylene Oxide | 1.13E-04 | 1.76E-04 | 2.38E-04 | 3.51E-04 | 5.20E-04 | 5.26E-04 | 7.81E-04 | 1.43E-03 | 0.00E+00 | 5.20E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Formaldehyde | 5.45E-01 | 6.71E-01 | 7.70E-01 | 9.65E-01 | 1.06E+00 | 1.28E+00 | 1.67E+00 | 1.80E+00 | 1.79E-02 | 3.26E-02 | 6.25E-01 | 1.37E-01 | 2.50E-01 | 2.50E-01 |
| Massachusetts | Hampden County | 25013 | U | Hexachlorobenzene | 9.31E-05 | 9.32E-05 | 9.32E-05 | 9.32E-05 | 9.32E-05 | 9.32E-05 | 9.33E-05 | 9.33E-05 | 0.00E+00 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Hampden County | 25013 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 3.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Hampden County | 25013 | U | Hexamethylene Diisocyanate | 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 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Hydrazine | 3.69E-09 | 4.49E-09 | 6.46E-09 | 8.35E-09 | 8.53E-09 | 8.53E-09 | 9.85E-09 | 1.36E-08 | 1.47E-08 | 0.00E+00 | 8.53E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Lead Compounds | 1.28E-03 | 1.75E-03 | 2.43E-03 | 2.88E-03 | 2.93E-03 | 3.22E-03 | 3.67E-03 | 4.40E-03 | 7.18E-05 | 1.59E-03 | 0.00E+00 | 1.26E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Manganese Compounds | 9.18E-05 | 1.11E-04 | 1.48E-04 | 2.03E-04 | 2.01E-04 | 2.49E-04 | 2.93E-04 | 3.18E-04 | 7.18E-06 | 1.72E-04 | 2.08E-05 | 1.47E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Mercury Compounds | 1.56E-03 | 1.59E-03 | 1.61E-03 | 1.65E-03 | 1.66E-03 | 1.70E-03 | 1.77E-03 | 1.80E-03 | 2.32E-06 | 7.33E-05 | 7.69E-05 | 1.08E-05 | 1.50E-03 | 1.50E-03 |
| Massachusetts | Hampden County | 25013 | U | Methylene Chloride | 2.29E-01 | 2.64E-01 | 3.30E-01 | 4.12E-01 | 4.78E-01 | 5.61E-01 | 7.61E-01 | 8.66E-01 | 2.88E-02 | 2.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Hampden County | 25013 | U | Nickel Compounds | 2.77E-04 | 3.11E-04 | 5.86E-04 | 1.05E-03 | 1.36E-03 | 1.73E-03 | 2.51E-03 | 3.30E-03 | 3.06E-06 | 1.31E-03 | 4.83E-05 | 2.57E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Perchloroethylene | 1.69E-01 | 1.83E-01 | 1.99E-01 | 2.28E-01 | 2.34E-01 | 2.56E-01 | 2.71E-01 | 2.77E-01 | 1.36E-02 | 8.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Hampden County | 25013 | U | Polychlorinated Biphenyls | 3.97E-04 | 3.97E-04 | 3.99E-04 | 4.01E-04 | 4.03E-04 | 4.06E-04 | 4.10E-04 | 4.16E-04 | 0.00E+00 | 2.32E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Hampden County | 25013 | U | Polycyclic Organic Matter | 3.26E-02 | 4.52E-02 | 5.68E-02 | 7.14E-02 | 7.35E-02 | 8.65E-02 | 1.12E-01 | 1.25E-01 | 2.78E-06 | 5.62E-02 | 2.00E-02 | 2.82E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | 7-PAH | 1.01E-03 | 1.08E-03 | 1.11E-03 | 1.23E-03 | 1.25E-03 | 1.36E-03 | 1.48E-03 | 1.55E-03 | 3.84E-09 | 1.08E-03 | 1.35E-04 | 2.76E-05 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Propylene Dichloride | 9.00E-05 | 1.31E-04 | 1.84E-04 | 3.00E-04 | 5.63E-04 | 4.81E-04 | 6.78E-04 | 8.42E-04 | 4.10E-04 | 1.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Quinoline | 6.36E-08 | 9.32E-08 | 1.33E-07 | 1.69E-07 | 1.59E-07 | 1.90E-07 | 2.04E-07 | 2.24E-07 | 0.00E+00 | 1.59E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | 1,1,2,2-Tetrachloroethane | 7.99E-04 | 1.17E-03 | 1.65E-03 | 2.70E-03 | 5.09E-03 | 4.31E-03 | 6.09E-03 | 7.64E-03 | 3.75E-03 | 1.34E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampden County | 25013 | U | Trichloroethylene | 9.68E-02 | 1.04E-01 | 1.14E-01 | 1.39E-01 | 1.46E-01 | 1.67E-01 | 1.85E-01 | 2.20E-01 | 1.50E-02 | 5.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Hampden County | 25013 | U | Vinyl Chloride | 1.97E-03 | 2.88E-03 | 4.06E-03 | 6.65E-03 | 1.25E-02 | 1.06E-02 | 1.88E-02 | 1.50E-02 | 9.24E-03 | 3.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Acetaldehyde | 1.48E-01 | 1.77E-01 | 3.08E-01 | 4.13E-01 | 6.13E-01 | 7.08E-01 | 1.15E+00 | 1.85E+00 | 1.92E-05 | 3.33E-02 | 5.18E-01 | 6.21E-02 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Acrolein | 3.17E-02 | 3.33E-02 | 5.54E-02 | 7.30E-02 | 7.89E-02 | 9.01E-02 | 1.51E-01 | 1.65E-01 | 1.04E-06 | 1.21E-02 | 5.94E-02 | 7.32E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Acrylonitrile | 1.29E-03 | 1.49E-03 | 3.50E-03 | 4.69E-03 | 8.36E-03 | 1.03E-02 | 1.66E-02 | 2.91E-02 | 5.52E-03 | 2.84E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Arsenic Compounds | 2.47E-05 | 4.28E-05 | 6.17E-05 | 8.44E-05 | 1.06E-04 | 1.21E-04 | 2.36E-04 | 2.67E-04 | 1.46E-06 | 3.47E-05 | 6.14E-05 | 8.16E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Benzene | 7.17E-01 | 7.52E-01 | 9.00E-01 | 1.05E+00 | 1.24E+00 | 1.30E+00 | 2.29E+00 | 2.45E+00 | 1.42E-02 | 1.23E-01 | 5.36E-01 | 8.15E-02 | 4.80E-01 | 4.80E-01 |
| Massachusetts | Hampshire County | 25015 | U | Benzidine | 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 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Beryllium Compounds | 6.91E-06 | 1.13E-05 | 1.70E-05 | 2.12E-05 | 2.28E-05 | 2.78E-05 | 3.16E-05 | 4.39E-05 | 7.47E-08 | 2.25E-05 | 0.00E+00 | 2.74E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | 1,3-Butadiene | 8.67E-03 | 1.26E-02 | 1.72E-02 | 2.75E-02 | 5.99E-02 | 6.68E-02 | 1.93E-01 | 2.34E-01 | 1.12E-11 | 1.39E-03 | 5.16E-02 | 6.92E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Cadmium Compounds | 8.81E-06 | 1.28E-05 | 2.02E-05 | 2.35E-05 | 2.57E-05 | 3.89E-05 | 5.00E-05 | 4.59E-07 | 2.50E-05 | 0.00E+00 | 2.73E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Carbon Disulfide | 4.74E-02 | 4.82E-02 | 4.82E-02 | 4.87E-02 | 5.13E-02 | 5.02E-02 | 5.33E-02 | 5.72E-02 | 7.26E-04 | 3.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Hampshire County | 25015 | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 1.01E-05 | 1.51E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Hampshire County | 25015 | U | Chloroform | 8.78E-02 | 9.38E-02 | 9.68E-02 | 1.01E-01 | 1.06E-01 | 1.10E-01 | 1.19E-01 | 1.19E-01 | 5.88E-05 | 2.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Hampshire County | 25015 | U | Chromium Compounds (includes Hexavalent) | 9.93E-05 | 1.24E-04 | 2.88E-04 | 4.96E-04 | 6.94E-04 | 6.76E-04 | 1.29E-03 | 2.14E-03 | 2.67E-06 | 6.39E-04 | 5.09E-05 | 1.11E-06 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Chromium VI | 3.40E-05 | 4.45E-05 | 1.02E-04 | 1.75E-04 | 2.43E-04 | 2.42E-04 | 4.53E-04 | 7.44E-04 | 2.10E-07 | 2.22E-04 | 2.03E-05 | 3.76E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 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 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | 1,4-Dichlorobenzene | 6.65E-03 | 1.37E-02 | 1.87E-02 | 2.66E-02 | 3.35E-02 | 3.90E-02 | 5.36E-02 | 9.64E-02 | 5.07E-04 | 3.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | 1,3-Dichloropropene | 1.24E-02 | 2.57E-02 | 3.51E-02 | 5.15E-02 | 6.50E-02 | 7.63E-02 | 1.06E-01 | 1.95E-01 | 0.00E+00 | 6.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | 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 | 3.09E-06 | 2.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Hampshire County | 25015 | U | Ethylene Dichloride | 6.12E-02 | 6.12E-02 | 6.14E-02 | 6.16E-02 | 6.20E-02 | 6.22E-02 | 6.33E-02 | 6.45E-02 | 6.67E-04 | 3.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Hampshire County | 25015 | U | Ethylene Oxide | 2.84E-05 | 6.47E-05 | 7.98E-05 | 9.33E-05 | 1.42E-04 | 1.16E-04 | 1.55E-04 | 7.02E-04 | 0.00E+00 | 1.42E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Formaldehyde | 4.25E-01 | 4.52E-01 | 6.09E-01 | 7.39E-01 | 9.49E-01 | 1.02E+00 | 1.79E+00 | 2.46E+00 | 4.20E-02 | 3.44E-02 | 5.31E-01 | 9.26E-02 | 2.50E-01 | 2.50E-01 |
| Massachusetts | Hampshire County | 25015 | U | Hexachlorobenzene | 9.32E-05 | 9.34E-05 | 9.35E-05 | 9.37E-05 | 9.38E-05 | 9.39E-05 | 9.42E-05 | 9.45E-05 | 0.00E+00 | 7.57E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Hampshire County | 25015 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 7.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Hampshire County | 25015 | U | Hexamethylene Diisocyanate | 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 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Hydrazine | 4.50E-09 | 6.31E-09 | 7.31E-09 | 2.97E-08 | 2.79E-07 | 8.55E-08 | 2.93E-07 | 5.64E-07 | 0.00E+00 | 2.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Lead Compounds | 4.66E-04 | 7.03E-04 | 8.38E-04 | 1.21E-03 | 1.53E-03 | 1.93E-03 | 2.27E-03 | 2.94E-03 | 2.15E-05 | 4.80E-04 | 0.00E+00 | 1.03E-03 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Manganese Compounds | 3.87E-05 | 6.42E-05 | 8.51E-05 | 1.01E-04 | 1.06E-04 | 1.22E-04 | 1.41E-04 | 1.86E-04 | 2.14E-06 | 8.67E-05 | 1.63E-05 | 8.74E-07 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Hampshire County | 25015 | U | Mercury Compounds | 1.53E-03 | 1.54E-03 | 1.56E-03 | 1.59E-03 | 1.61E-03 | 1.62E-03 | 1.74E-03 | 1.76E-03 | 2.16E-06 | 3.52E-05 | 6.12E-05 | 6.68E-06 | 1.50E-03 | 1.50E-03 |
| Massachusetts | Hampshire County | 25015 | U | Methylene Chloride | 1.81E-01 | 2.02E-01 | 2.35E-01 | 2.92E-01 | 3.23E-01 | 3.61E-01 | 4.86E-01 | 5.85E-01 | 2.08E-02 | 1.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Hampshire County | 25015 | U | Nickel Compounds | 6.87E-05 | 1.48E-04 | 2.32E-04 | 2.62E-04 | 2.92E-04 | 3.55E-04 | 4.66E-04 | 6.21E-04 | 2.41E-06 | 2.50E-04 | 3.77E-05 | 1.48E-06 | 0.0 | |

DRAFT FOR REVIEW ONLY
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 County | 25017 | U | Acrylonitrile | 1.42E-03 | 1.59E-03 | 2.58E-03 | 3.22E-03 | 4.70E-03 | 4.30E-03 | 5.51E-03 | 7.43E-03 | 3.38E-03 | 1.31E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Arsenic Compounds | 9.88E-05 | 1.29E-04 | 1.81E-04 | 2.27E-04 | 2.28E-04 | 2.75E-04 | 3.23E-04 | 3.56E-04 | 3.48E-05 | 8.40E-05 | 7.88E-05 | 3.09E-05 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Benzene | 1.22E+00 | 1.32E+00 | 1.43E+00 | 1.56E+00 | 1.64E+00 | 1.80E+00 | 2.16E+00 | 2.30E+00 | 9.21E-03 | 1.71E-01 | 7.68E-01 | 2.16E-01 | 4.80E-01 | |
| Massachusetts | Middlesex County | 25017 | U | Benzidine | 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 County | 25017 | U | Beryllium Compounds | 1.46E-04 | 2.09E-04 | 2.46E-04 | 2.93E-04 | 4.18E-04 | 4.32E-04 | 9.07E-04 | 1.17E-03 | 3.79E-08 | 4.18E-04 | 0.00E+00 | 2.18E-07 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | 1,3-Butadiene | 2.94E-02 | 3.53E-02 | 4.87E-02 | 6.56E-02 | 7.80E-02 | 9.23E-02 | 1.49E-01 | 1.70E-01 | 1.06E-09 | 6.21E-04 | 5.70E-02 | 2.04E-02 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Cadmium Compounds | 3.14E-05 | 3.49E-05 | 4.41E-05 | 6.02E-05 | 6.36E-05 | 7.71E-05 | 9.67E-05 | 1.06E-04 | 2.06E-06 | 6.13E-05 | 0.00E+00 | 2.77E-07 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Carbon Disulfide | 4.92E-02 | 4.96E-02 | 5.01E-02 | 5.07E-02 | 5.11E-02 | 5.16E-02 | 5.28E-02 | 5.35E-02 | 4.45E-04 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 | |
| Massachusetts | Middlesex County | 25017 | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 6.20E-06 | 7.72E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Middlesex County | 25017 | U | Chloroform | 1.20E-01 | 1.31E-01 | 1.51E-01 | 1.67E-01 | 1.84E-01 | 2.10E-01 | 2.62E-01 | 2.88E-01 | 3.61E-05 | 1.01E-01 | 0.00E+00 | 0.00E+00 | 8.30E-02 | |
| Massachusetts | Middlesex County | 25017 | U | Chromium Compounds (includes Hexavalent) | 1.27E-04 | 1.46E-04 | 1.97E-04 | 2.72E-04 | 2.91E-04 | 3.51E-04 | 4.25E-04 | 5.24E-04 | 1.71E-05 | 2.06E-04 | 6.54E-05 | 3.27E-06 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Chromium VI | 4.42E-05 | 5.22E-05 | 6.62E-05 | 8.83E-05 | 1.05E-04 | 1.19E-04 | 1.65E-04 | 2.13E-04 | 2.18E-06 | 7.54E-05 | 2.61E-05 | 1.11E-06 | 0.00E+00 | |
| Massachusetts | Middlesex County | 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 County | 25017 | U | 1,4-Dichlorobenzene | 2.84E-02 | 3.49E-02 | 4.63E-02 | 5.80E-02 | 6.84E-02 | 8.49E-02 | 1.19E-01 | 1.37E-01 | 3.11E-04 | 6.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | 1,3-Dichloropropene | 5.66E-02 | 6.90E-02 | 9.23E-02 | 1.14E-01 | 1.37E-01 | 1.69E-01 | 2.39E-01 | 2.75E-01 | 0.00E+00 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | 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 | 1.89E-06 | 9.69E-07 | 0.00E+00 | 0.00E+00 | 7.70E-03 | |
| Massachusetts | Middlesex County | 25017 | U | Ethylene Dichloride | 6.12E-02 | 6.12E-02 | 6.13E-02 | 6.14E-02 | 6.16E-02 | 6.15E-02 | 6.16E-02 | 6.19E-02 | 4.09E-04 | 1.50E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 | |
| Massachusetts | Middlesex County | 25017 | U | Ethylene Oxide | 6.41E-04 | 6.74E-04 | 7.48E-04 | 9.01E-04 | 1.10E-03 | 1.19E-03 | 1.90E-03 | 2.08E-03 | 0.00E+00 | 1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Formaldehyde | 7.82E-01 | 8.68E-01 | 9.98E-01 | 1.13E+00 | 1.19E+00 | 1.32E+00 | 1.64E+00 | 1.77E+00 | 6.26E-04 | 4.27E-02 | 6.44E-01 | 2.49E-01 | 2.50E-01 | |
| Massachusetts | Middlesex County | 25017 | U | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.32E-05 | 9.33E-05 | 9.34E-05 | 9.34E-05 | 0.00E+00 | 2.03E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | |
| Massachusetts | Middlesex County | 25017 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 4.51E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | |
| Massachusetts | Middlesex County | 25017 | U | Hexamethylene Diisocyanate | 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 County | 25017 | U | Hydrazine | 1.03E-08 | 9.21E-08 | 2.08E-07 | 4.56E-07 | 7.24E-07 | 1.03E-06 | 1.58E-06 | 2.55E-06 | 0.00E+00 | 7.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Lead Compounds | 8.18E-04 | 8.85E-04 | 1.01E-03 | 1.17E-03 | 1.19E-03 | 1.34E-03 | 1.50E-03 | 1.64E-03 | 2.33E-05 | 5.33E-04 | 0.00E+00 | 6.34E-04 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Manganese Compounds | 1.09E-04 | 1.27E-04 | 1.66E-04 | 2.01E-04 | 2.11E-04 | 2.55E-04 | 2.90E-04 | 3.38E-04 | 8.19E-06 | 1.78E-04 | 2.07E-05 | 3.61E-06 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Mercury Compounds | 1.60E-03 | 1.63E-03 | 1.67E-03 | 1.70E-03 | 1.72E-03 | 1.75E-03 | 1.82E-03 | 1.89E-03 | 1.72E-05 | 1.03E-04 | 7.89E-05 | 2.57E-05 | 1.50E-03 | |
| Massachusetts | Middlesex County | 25017 | U | Methylene Chloride | 2.87E-01 | 3.24E-01 | 3.77E-01 | 4.47E-01 | 4.87E-01 | 5.52E-01 | 6.89E-01 | 8.42E-01 | 2.66E-02 | 3.11E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 | |
| Massachusetts | Middlesex County | 25017 | U | Nickel Compounds | 5.84E-04 | 9.35E-04 | 1.30E-03 | 1.67E-03 | 2.76E-03 | 3.26E-03 | 6.54E-03 | 7.21E-03 | 2.24E-04 | 2.47E-03 | 4.84E-05 | 1.88E-05 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Perchloroethylene | 1.93E-01 | 2.05E-01 | 2.25E-01 | 2.43E-01 | 2.54E-01 | 2.73E-01 | 3.11E-01 | 3.54E-01 | 6.13E-03 | 1.08E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | |
| Massachusetts | Middlesex County | 25017 | U | Polychlorinated Biphenyls | 3.91E-04 | 3.91E-04 | 3.93E-04 | 3.98E-04 | 4.03E-04 | 4.12E-04 | 4.24E-04 | 4.28E-04 | 0.00E+00 | 2.32E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | |
| Massachusetts | Middlesex County | 25017 | U | Polycyclic Organic Matter | 7.23E-02 | 7.65E-02 | 8.51E-02 | 9.92E-02 | 1.06E-01 | 1.19E-01 | 1.47E-01 | 1.69E-01 | 6.59E-04 | 8.13E-02 | 2.00E-02 | 3.72E-03 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | 7-PAH | 1.18E-03 | 1.28E-03 | 1.36E-03 | 1.81E-03 | 2.06E-03 | 2.55E-03 | 3.26E-03 | 3.81E-03 | 6.32E-08 | 1.89E-03 | 1.36E-04 | 4.02E-05 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Propylene Dichloride | 8.08E-05 | 8.83E-05 | 1.49E-04 | 1.85E-04 | 2.77E-04 | 2.54E-04 | 3.28E-04 | 4.44E-04 | 2.05E-04 | 7.22E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Quinoline | 7.61E-08 | 9.46E-08 | 1.21E-07 | 1.91E-07 | 1.75E-07 | 2.16E-07 | 2.40E-07 | 2.59E-07 | 0.00E+00 | 1.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | 1,1,2,2-Tetrachloroethane | 6.40E-04 | 6.97E-04 | 1.28E-03 | 1.60E-03 | 2.45E-03 | 2.25E-03 | 2.94E-03 | 4.01E-03 | 1.88E-03 | 5.73E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Middlesex County | 25017 | U | Trichloroethylene | 1.22E-01 | 1.28E-01 | 1.42E-01 | 1.57E-01 | 1.71E-01 | 1.72E-01 | 2.14E-01 | 2.54E-01 | 2.10E-02 | 6.93E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | |
| Massachusetts | Middlesex County | 25017 | U | Vinyl Chloride | 1.58E-03 | 1.72E-03 | 3.17E-03 | 3.93E-03 | 6.04E-03 | 5.55E-03 | 7.25E-03 | 9.88E-03 | 4.62E-03 | 1.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Acetaldehyde | 2.90E-02 | 2.90E-02 | 3.74E-02 | 5.64E-02 | 5.68E-02 | 7.40E-02 | 8.77E-02 | 0.00E+00 | 1.72E-03 | 1.48E-02 | 4.03E-02 | 0.00E+00 | | |
| Massachusetts | Nantucket County | 25019 | R | Acrolein | 1.01E-02 | 1.01E-02 | 1.01E-02 | 1.16E-02 | 1.28E-02 | 1.52E-02 | 1.79E-02 | 1.79E-02 | 0.00E+00 | 1.57E-03 | 2.30E-03 | 8.89E-03 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Acrylonitrile | 1.02E-04 | 1.02E-04 | 1.46E-04 | 2.73E-04 | 3.52E-04 | 4.08E-04 | 9.09E-04 | 9.09E-04 | 0.00E+00 | 3.52E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Arsenic Compounds | 5.79E-06 | 5.79E-06 | 5.96E-06 | 1.04E-05 | 1.32E-05 | 1.77E-05 | 2.89E-05 | 2.89E-05 | 0.00E+00 | 4.84E-06 | 2.78E-06 | 5.58E-06 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Benzene | 6.84E-01 | 6.84E-01 | 6.84E-01 | 7.31E-01 | 7.59E-01 | 8.47E-01 | 8.76E-01 | 8.76E-01 | 0.00E+00 | 6.38E-02 | 2.69E-02 | 1.88E-01 | 4.80E-01 | |
| Massachusetts | Nantucket County | 25019 | R | Benzidine | 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 County | 25019 | R | Beryllium Compounds | 9.30E-07 | 9.30E-07 | 9.88E-07 | 2.11E-06 | 3.22E-06 | 5.00E-06 | 8.17E-06 | 8.17E-06 | 0.00E+00 | 3.22E-06 | 0.00E+00 | 3.66E-10 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | 1,3-Butadiene | 1.16E-02 | 1.16E-02 | 1.18E-02 | 1.58E-02 | 1.86E-02 | 2.73E-02 | 2.92E-02 | 2.92E-02 | 0.00E+00 | 4.68E-04 | 2.62E-03 | 1.55E-02 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Cadmium Compounds | 1.19E-06 | 1.19E-06 | 1.25E-06 | 2.41E-06 | 3.76E-06 | 5.89E-06 | 9.39E-06 | 9.39E-06 | 0.00E+00 | 3.75E-06 | 0.00E+00 | 5.12E-09 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Carbon Disulfide | 4.71E-02 | 4.71E-02 | 4.71E-02 | 4.72E-02 | 4.72E-02 | 4.72E-02 | 4.75E-02 | 4.75E-02 | 0.00E+00 | 1.92E-04 | 0.00E+00 | 0.00E+00 | 4.70E-02 | |
| Massachusetts | Nantucket County | 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 | 0.00E+00 | 4.00E-05 | 0.00E+00 | 0.00E+00 | 8.80E-01 | |
| Massachusetts | Nantucket County | 25019 | R | Chloroform | 8.67E-02 | 8.67E-02 | 8.70E-02 | 9.75E-02 | 1.03E-01 | 1.17E-01 | 1.32E-01 | 1.32E-01 | 0.00E+00 | 1.99E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 | |
| Massachusetts | Nantucket County | 25019 | R | Chromium Compounds (includes Hexavalent) | 4.02E-06 | 4.02E-06 | 4.14E-06 | 6.36E-06 | 8.06E-06 | 1.05E-05 | 1.69E-05 | 1.69E-05 | 0.00E+00 | 3.66E-06 | 2.33E-06 | 2.07E-06 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Chromium VI | 1.52E-06 | 1.52E-06 | 1.57E-06 | 2.38E-06 | 3.07E-06 | 4.00E-06 | 6.60E-06 | 6.60E-06 | 0.00E+00 | 1.41E-06 | 9.56E-07 | 7.04E-07 | 0.00E+00 | |
| Massachusetts | Nantucket County | 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 County | 25019 | R | 1,4-Dichlorobenzene | 1.43E-03 | 1.43E-03 | 1.45E-03 | 2.91E-03 | 4.25E-03 | 6.81E-03 | 1.00E-02 | 1.00E-02 | 0.00E+00 | 3.25E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | 1,3-Dichloropropene | 2.52E-03 | 2.52E-03 | 2.65E-03 | 5.78E-03 | 8.45E-03 | 1.37E-02 | 2.03E-02 | 2.03E-02 | 0.00E+00 | 8.45E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 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 | 0.00E+00 | 1.90E-07 | 0.00E+00 | 0.00E+00 | 7.70E-03 | |
| Massachusetts | Nantucket County | 25019 | R | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.11E-02 | 6.11E-02 | 0.00E+00 | 4.55E-05 | 0.00E+00 | 0.00E+00 | 6.10E-02 | |
| Massachusetts | Nantucket County | 25019 | R | Eth | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
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 | Nantucket County | 25019 | R | Mercury Compounds | 1.50E-03 | 1.50E-03 | 1.50E-03 | 1.51E-03 | 1.51E-03 | 1.52E-03 | 1.52E-03 | 1.52E-03 | 0.00E+00 | 4.67E-06 | 2.96E-06 | 3.44E-06 | 1.50E-03 | |
| Massachusetts | Nantucket County | 25019 | R | Methylene Chloride | 1.56E-01 | 1.56E-01 | 1.58E-01 | 1.60E-01 | 1.65E-01 | 1.67E-01 | 1.89E-01 | 1.89E-01 | 0.00E+00 | 1.51E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | |
| Massachusetts | Nantucket County | 25019 | R | Nickel Compounds | 6.59E-06 | 6.59E-06 | 6.60E-06 | 6.60E-06 | 1.35E-05 | 1.67E-05 | 3.19E-05 | 3.19E-05 | 0.00E+00 | 8.97E-06 | 1.63E-06 | 2.89E-06 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Perchloroethylene | 1.44E-01 | 1.44E-01 | 1.45E-01 | 1.47E-01 | 1.47E-01 | 1.50E-01 | 1.52E-01 | 1.52E-01 | 0.00E+00 | 7.44E-03 | 0.00E+00 | 0.00E+00 | 1.40E-01 | |
| Massachusetts | Nantucket County | 25019 | R | Polychlorinated Biphenyls | 3.87E-04 | 3.87E-04 | 3.88E-04 | 3.94E-04 | 4.01E-04 | 4.09E-04 | 4.31E-04 | 4.31E-04 | 0.00E+00 | 2.06E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | |
| Massachusetts | Nantucket County | 25019 | R | Polycyclic Organic Matter | 6.78E-03 | 6.78E-03 | 7.04E-03 | 1.71E-02 | 2.02E-02 | 2.91E-02 | 4.41E-02 | 4.41E-02 | 0.00E+00 | 1.17E-02 | 7.24E-04 | 7.80E-03 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | 7-PAH | 2.78E-04 | 2.78E-04 | 3.41E-04 | 5.65E-04 | 7.10E-04 | 1.13E-03 | 1.38E-03 | 1.38E-03 | 0.00E+00 | 6.14E-04 | 4.59E-06 | 9.13E-05 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Propylene Dichloride | 6.04E-06 | 6.04E-06 | 8.56E-06 | 1.57E-05 | 2.09E-05 | 2.45E-05 | 5.49E-05 | 5.49E-05 | 0.00E+00 | 2.09E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Quinoline | 1.74E-10 | 1.74E-10 | 1.79E-10 | 1.96E-10 | 2.74E-10 | 4.21E-10 | 4.80E-10 | 4.80E-10 | 0.00E+00 | 2.74E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | 1,1,2,2-Tetrachloroethane | 5.40E-05 | 5.40E-05 | 7.61E-05 | 1.37E-04 | 1.88E-04 | 2.23E-04 | 5.01E-04 | 5.01E-04 | 0.00E+00 | 1.88E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Nantucket County | 25019 | R | Trichloroethylene | 8.18E-02 | 8.18E-02 | 8.23E-02 | 8.27E-02 | 8.37E-02 | 8.36E-02 | 8.88E-02 | 8.88E-02 | 0.00E+00 | 2.66E-03 | 0.00E+00 | 0.00E+00 | 8.10E-02 | |
| Massachusetts | Nantucket County | 25019 | R | Vinyl Chloride | 1.33E-04 | 1.33E-04 | 1.87E-04 | 3.38E-04 | 4.63E-04 | 5.49E-04 | 1.23E-03 | 1.23E-03 | 0.00E+00 | 4.63E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Acetaldehyde | 5.73E-01 | 5.92E-01 | 6.65E-01 | 7.93E-01 | 8.93E-01 | 9.98E-01 | 1.37E+00 | 1.62E+00 | 3.00E-05 | 8.04E-02 | 6.89E-01 | 1.24E-01 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Acrolein | 9.36E-02 | 9.80E-02 | 1.07E-01 | 1.15E-01 | 1.18E-01 | 1.29E-01 | 1.36E-01 | 1.49E-01 | 5.89E-07 | 1.44E-02 | 8.42E-02 | 1.93E-02 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Acrylonitrile | 2.76E-03 | 2.88E-03 | 3.24E-03 | 3.96E-03 | 5.64E-03 | 5.41E-03 | 8.46E-03 | 1.45E-02 | 3.65E-03 | 1.99E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Arsenic Compounds | 1.20E-04 | 1.29E-04 | 1.45E-04 | 1.74E-04 | 1.92E-04 | 2.18E-04 | 2.91E-04 | 3.68E-04 | 4.75E-06 | 7.72E-05 | 7.94E-05 | 3.11E-05 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Benzene | 1.26E+00 | 1.31E+00 | 1.44E+00 | 1.57E+00 | 1.67E+00 | 1.78E+00 | 2.23E+00 | 2.35E+00 | 1.01E-02 | 2.00E-01 | 7.87E-01 | 1.96E-01 | 4.80E-01 | |
| Massachusetts | Norfolk County | 25021 | U | Benzidine | 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 County | 25021 | U | Beryllium Compounds | 2.21E-04 | 2.42E-04 | 2.84E-04 | 3.50E-04 | 5.72E-04 | 5.23E-04 | 1.03E-03 | 1.31E-03 | 2.49E-07 | 5.71E-04 | 0.00E+00 | 2.64E-07 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | 1,3-Butadiene | 3.29E-02 | 3.47E-02 | 4.46E-02 | 6.13E-02 | 7.76E-02 | 9.27E-02 | 1.47E-01 | 1.87E-01 | 4.09E-09 | 1.15E-03 | 6.00E-02 | 1.66E-02 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Cadmium Compounds | 5.61E-05 | 6.05E-05 | 6.73E-05 | 7.41E-05 | 7.93E-05 | 8.59E-05 | 1.04E-04 | 1.29E-04 | 2.08E-06 | 7.68E-05 | 0.00E+00 | 3.33E-07 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Carbon Disulfide | 4.97E-02 | 5.00E-02 | 5.06E-02 | 5.12E-02 | 5.20E-02 | 5.25E-02 | 5.42E-02 | 5.61E-02 | 4.80E-04 | 4.53E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 | |
| Massachusetts | Norfolk County | 25021 | 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 | 6.69E-06 | 6.36E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 | |
| Massachusetts | Norfolk County | 25021 | U | Chloroform | 1.34E-01 | 1.38E-01 | 1.48E-01 | 1.55E-01 | 1.64E-01 | 1.72E-01 | 1.99E-01 | 2.42E-01 | 3.89E-05 | 8.12E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 | |
| Massachusetts | Norfolk County | 25021 | U | Chromium Compounds (includes Hexavalent) | 2.76E-04 | 2.98E-04 | 3.30E-04 | 3.84E-04 | 4.76E-04 | 4.74E-04 | 6.04E-04 | 7.69E-04 | 1.06E-04 | 3.01E-04 | 6.61E-05 | 2.86E-06 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Chromium VI | 6.65E-05 | 6.92E-05 | 8.03E-05 | 9.50E-05 | 9.75E-05 | 1.10E-04 | 1.25E-04 | 1.44E-04 | 1.47E-05 | 5.53E-05 | 2.64E-05 | 9.72E-07 | 0.00E+00 | |
| Massachusetts | Norfolk County | 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 County | 25021 | U | 1,4-Dichlorobenzene | 4.25E-02 | 4.47E-02 | 4.94E-02 | 5.34E-02 | 6.17E-02 | 6.87E-02 | 8.91E-02 | 1.13E-01 | 3.35E-04 | 6.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | 1,3-Dichloropropene | 8.46E-02 | 8.87E-02 | 9.58E-02 | 1.04E-01 | 1.21E-01 | 1.35E-01 | 1.77E-01 | 2.26E-01 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | 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 | 2.04E-06 | 1.51E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 | |
| Massachusetts | Norfolk County | 25021 | U | Ethylene Dichloride | 6.13E-02 | 6.13E-02 | 6.14E-02 | 6.15E-02 | 6.17E-02 | 6.16E-02 | 6.20E-02 | 6.27E-02 | 4.41E-04 | 2.27E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 | |
| Massachusetts | Norfolk County | 25021 | U | Ethylene Oxide | 2.76E-04 | 3.45E-04 | 4.83E-04 | 6.06E-04 | 7.16E-04 | 8.18E-04 | 1.19E-03 | 1.42E-03 | 0.00E+00 | 7.16E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Formaldehyde | 8.77E-01 | 9.04E-01 | 9.97E-01 | 1.13E+00 | 1.24E+00 | 1.40E+00 | 1.73E+00 | 1.89E+00 | 1.29E-04 | 4.97E-02 | 7.00E-01 | 2.39E-01 | 2.50E-01 | |
| Massachusetts | Norfolk County | 25021 | U | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.32E-05 | 9.32E-05 | 9.33E-05 | 0.00E+00 | 1.44E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | |
| Massachusetts | Norfolk County | 25021 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 3.68E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | |
| Massachusetts | Norfolk County | 25021 | U | Hexamethylene Diisocyanate | 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 County | 25021 | U | Hydrazine | 9.83E-08 | 1.41E-07 | 3.64E-07 | 5.96E-07 | 6.13E-07 | 8.42E-07 | 9.88E-07 | 1.11E-06 | 0.00E+00 | 6.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Lead Compounds | 9.61E-04 | 1.00E-03 | 1.14E-03 | 1.36E-03 | 1.94E-03 | 1.73E-03 | 3.16E-03 | 3.88E-03 | 2.08E-05 | 5.90E-04 | 0.00E+00 | 1.33E-03 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Manganese Compounds | 1.19E-04 | 1.28E-04 | 1.43E-04 | 1.61E-04 | 1.75E-04 | 1.96E-04 | 2.30E-04 | 3.04E-04 | 7.36E-06 | 1.43E-04 | 2.10E-05 | 3.68E-06 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Mercury Compounds | 1.63E-03 | 1.64E-03 | 1.65E-03 | 1.67E-03 | 1.69E-03 | 1.72E-03 | 1.79E-03 | 1.83E-03 | 8.94E-06 | 7.86E-05 | 7.92E-05 | 2.66E-05 | 1.50E-03 | |
| Massachusetts | Norfolk County | 25021 | U | Methylene Chloride | 3.15E-01 | 3.27E-01 | 3.72E-01 | 4.09E-01 | 4.25E-01 | 4.58E-01 | 5.43E-01 | 5.92E-01 | 1.67E-02 | 2.59E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 | |
| Massachusetts | Norfolk County | 25021 | U | Nickel Compounds | 4.52E-04 | 5.05E-04 | 5.43E-04 | 6.15E-04 | 7.10E-04 | 7.22E-04 | 9.49E-04 | 1.18E-03 | 1.99E-04 | 4.41E-04 | 4.90E-05 | 2.11E-05 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Perchloroethylene | 2.02E-01 | 2.07E-01 | 2.22E-01 | 2.36E-01 | 2.55E-01 | 2.65E-01 | 3.16E-01 | 4.14E-01 | 6.61E-03 | 1.08E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | |
| Massachusetts | Norfolk County | 25021 | U | Polychlorinated Biphenyls | 3.91E-04 | 3.91E-04 | 3.92E-04 | 3.94E-04 | 3.96E-04 | 3.98E-04 | 4.05E-04 | 4.09E-04 | 0.00E+00 | 1.65E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | |
| Massachusetts | Norfolk County | 25021 | U | Polycyclic Organic Matter | 6.65E-02 | 7.18E-02 | 8.08E-02 | 9.57E-02 | 9.76E-02 | 1.10E-01 | 1.33E-01 | 1.36E-01 | 7.49E-04 | 7.28E-02 | 2.03E-02 | 3.81E-03 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | 7-PAH | 1.21E-03 | 1.28E-03 | 1.46E-03 | 1.85E-03 | 2.28E-03 | 2.80E-03 | 3.84E-03 | 5.26E-03 | 2.65E-08 | 2.11E-03 | 1.37E-04 | 3.82E-05 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Propylene Dichloride | 1.61E-04 | 1.69E-04 | 1.94E-04 | 2.35E-04 | 3.37E-04 | 3.26E-04 | 5.08E-04 | 8.75E-04 | 2.21E-04 | 1.16E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Quinoline | 2.05E-07 | 2.66E-07 | 3.18E-07 | 4.11E-07 | 5.83E-07 | 6.27E-07 | 1.10E-06 | 1.23E-06 | 0.00E+00 | 5.83E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | 1,1,2,2-Tetrachloroethane | 1.38E-03 | 1.46E-03 | 1.66E-03 | 2.08E-03 | 2.99E-03 | 2.85E-03 | 4.58E-03 | 7.93E-03 | 2.02E-03 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Norfolk County | 25021 | U | Trichloroethylene | 1.19E-01 | 1.21E-01 | 1.29E-01 | 1.37E-01 | 1.40E-01 | 1.47E-01 | 1.63E-01 | 1.68E-01 | 1.96E-02 | 3.97E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | |
| Massachusetts | Norfolk County | 25021 | U | Vinyl Chloride | 3.45E-03 | 3.62E-03 | 4.12E-03 | 5.14E-03 | 7.37E-03 | 7.04E-03 | 1.13E-02 | 1.96E-02 | 4.99E-03 | 2.39E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Plymouth County | 25023 | U | Acetaldehyde | 2.91E-01 | 3.40E-01 | 4.25E-01 | 5.53E-01 | 5.82E-01 | 7.09E-01 | 8.41E-01 | 9.82E-01 | 5.46E-05 | 6.77E-02 | 4.40E-01 | 7.47E-02 | 0.00E+00 | |
| Massachusetts | Plymouth County | 25023 | U | Acrolein | 5.65E-02 | 5.90E-02 | 6.92E-02 | 8.37E-02 | 8.80E-02 | 1.06E-01 | 1.25E-01 | 1.28E-01 | 1.25E-01 | 1.25E-06 | 1.22E-02 | 6.03E-02 | 1.56E-02 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Acrylonitrile | 2.32E-03 | 2.44E-03 | 3.28E-03 | 3.71E-03 | 4.64E-03 | 4.31E-03 | 5.69E-03 | 6.91E-03 | 1.80E-03 | 2.84E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Plymouth County | 25023 | U | Arsenic Compounds | 6.37E-05 | 6.82E-05 | 8.62E-05 | 1.15E-04 | 1.26E-04 | 1.64E-04 | 1.98E-04 | 2.27E-04 | 3.31E-06 | 5.54E-05 | 5.00E-05 | 1.70E-05 | 0.00E+00 | |
| Massachusetts | Plymouth County | 25023 | U | Benzene | 1.01E+00 | 1.07E+00 | 1.14E+00 | 1.32E+00 | 1.39E+00 | 1.59E+00 | 1.76E+00 | 2.01E+00 | 4.95E-03 | 2.07E-01 | 5.07E-01 | 1.92E-01 | 4.80E-01 | |
| Massachusetts | Plymouth County | 250 | | | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
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 County | 25023 | U | Chromium VI | 2.86E-05 | 3.77E-05 | 5.12E-05 | 7.26E-05 | 8.06E-05 | 1.01E-04 | 1.19E-04 | 1.43E-04 | 1.63E-05 | 4.66E-05 | 1.68E-05 | 9.27E-07 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | 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 | Plymouth County | 25023 | U | 1,4-Dichlorobenzene | 1.82E-02 | 2.04E-02 | 3.04E-02 | 4.10E-02 | 4.85E-02 | 6.40E-02 | 7.41E-02 | 1.13E-01 | 1.66E-04 | 4.83E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | 1,3-Dichloropropene | 3.41E-02 | 3.90E-02 | 5.68E-02 | 7.94E-02 | 9.47E-02 | 1.26E-01 | 1.47E-01 | 2.26E-01 | 0.00E+00 | 9.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Ethylene Dichloride | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 1.01E-06 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Plymouth County | 25023 | U | Ethylene Dibromide | 6.13E-02 | 6.13E-02 | 6.14E-02 | 6.14E-02 | 6.15E-02 | 6.15E-02 | 6.17E-02 | 6.18E-02 | 2.18E-04 | 3.30E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Plymouth County | 25023 | U | Ethylene Oxide | 8.38E-05 | 1.32E-04 | 2.01E-04 | 3.53E-04 | 4.86E-04 | 7.74E-04 | 9.87E-04 | 1.13E-03 | 0.00E+00 | 4.86E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Formaldehyde | 5.72E-01 | 6.16E-01 | 6.89E-01 | 8.34E-01 | 8.74E-01 | 1.02E+00 | 1.20E+00 | 1.32E+00 | 6.36E-05 | 3.77E-02 | 4.41E-01 | 1.46E-01 | 2.50E-01 |
| Massachusetts | Plymouth County | 25023 | U | Hexachlorobenzene | 9.34E-05 | 9.35E-05 | 9.37E-05 | 9.40E-05 | 9.40E-05 | 9.42E-05 | 9.44E-05 | 9.46E-05 | 0.00E+00 | 9.55E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Plymouth County | 25023 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 3.04E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Plymouth County | 25023 | U | Hexamethylene Diisocyanate | 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 | Plymouth County | 25023 | U | Hydrazine | 3.54E-09 | 4.77E-09 | 1.03E-08 | 7.80E-08 | 3.42E-07 | 5.16E-07 | 9.24E-07 | 1.21E-06 | 0.00E+00 | 3.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Lead Compounds | 5.55E-04 | 7.66E-04 | 8.74E-04 | 1.17E-03 | 1.60E-03 | 1.46E-03 | 2.04E-03 | 2.32E-03 | 8.06E-06 | 5.27E-04 | 0.00E+00 | 1.06E-03 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Manganese Compounds | 6.25E-05 | 7.18E-05 | 8.60E-05 | 1.17E-04 | 1.28E-04 | 1.67E-04 | 2.02E-04 | 2.21E-04 | 1.18E-05 | 1.00E-04 | 1.31E-05 | 2.29E-06 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Mercury Compounds | 1.57E-03 | 1.57E-03 | 1.59E-03 | 1.62E-03 | 1.63E-03 | 1.66E-03 | 1.70E-03 | 1.72E-03 | 6.92E-06 | 5.82E-05 | 4.98E-05 | 1.37E-05 | 1.50E-03 |
| Massachusetts | Plymouth County | 25023 | U | Methylene Chloride | 2.17E-01 | 2.40E-01 | 2.78E-01 | 3.48E-01 | 3.72E-01 | 4.49E-01 | 5.18E-01 | 5.76E-01 | 7.17E-03 | 2.15E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Plymouth County | 25023 | U | Nickel Compounds | 1.53E-04 | 1.98E-04 | 3.16E-04 | 4.87E-04 | 4.84E-04 | 6.51E-04 | 7.45E-04 | 8.27E-04 | 1.42E-04 | 2.99E-04 | 3.09E-05 | 1.21E-05 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Perchloroethylene | 1.57E-01 | 1.61E-01 | 1.79E-01 | 1.99E-01 | 2.07E-01 | 2.25E-01 | 2.65E-01 | 2.85E-01 | 3.24E-03 | 6.38E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Plymouth County | 25023 | U | Polychlorinated Biphenyls | 4.25E-04 | 4.37E-04 | 4.56E-04 | 4.94E-04 | 4.92E-04 | 5.20E-04 | 5.47E-04 | 5.64E-04 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| Massachusetts | Plymouth County | 25023 | U | Polycyclic Organic Matter | 4.03E-02 | 4.40E-02 | 5.25E-02 | 6.98E-02 | 7.48E-02 | 9.28E-02 | 1.11E-01 | 1.30E-01 | 4.13E-04 | 5.84E-02 | 1.30E-02 | 3.00E-03 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | 7-PAH | 1.26E-03 | 1.52E-03 | 1.87E-03 | 2.29E-03 | 2.27E-03 | 2.61E-03 | 3.12E-03 | 3.41E-03 | 1.48E-07 | 2.14E-03 | 8.76E-05 | 4.06E-05 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Propylene Dichloride | 1.39E-04 | 1.46E-04 | 1.92E-04 | 2.19E-04 | 2.77E-04 | 2.55E-04 | 3.43E-04 | 4.12E-04 | 1.09E-04 | 1.67E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Quinoline | 6.64E-08 | 9.77E-08 | 1.35E-07 | 2.56E-07 | 3.19E-07 | 4.58E-07 | 6.01E-07 | 8.41E-07 | 0.00E+00 | 3.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | 1,1,2,2-Tetrachloroethane | 1.25E-03 | 1.32E-03 | 1.69E-03 | 1.92E-03 | 2.46E-03 | 2.26E-03 | 3.10E-03 | 3.68E-03 | 1.00E-03 | 1.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Plymouth County | 25023 | U | Trichloroethylene | 1.04E-01 | 1.08E-01 | 1.20E-01 | 1.34E-01 | 1.49E-01 | 1.68E-01 | 2.02E-01 | 2.26E-01 | 4.26E-02 | 2.54E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| Massachusetts | Plymouth County | 25023 | U | Vinyl Chloride | 3.08E-03 | 3.26E-03 | 4.18E-03 | 4.75E-03 | 6.07E-03 | 5.59E-03 | 7.64E-03 | 9.08E-03 | 2.46E-03 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Acetaldehyde | 7.01E-01 | 8.50E-01 | 1.01E+00 | 1.30E+00 | 1.44E+00 | 1.73E+00 | 2.27E+00 | 2.67E+00 | 4.96E-05 | 1.09E-01 | 5.32E-01 | 7.94E-01 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Acrolein | 1.15E-01 | 1.21E-01 | 1.29E-01 | 1.47E-01 | 1.53E-01 | 1.65E-01 | 2.01E-01 | 2.25E-01 | 3.82E-07 | 2.03E-02 | 8.31E-02 | 4.91E-02 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Acrylonitrile | 2.44E-03 | 2.69E-03 | 3.14E-03 | 3.30E-03 | 3.90E-03 | 3.71E-03 | 4.36E-03 | 4.61E-03 | 2.01E-03 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Arsenic Compounds | 2.20E-04 | 2.57E-04 | 3.23E-04 | 4.25E-04 | 4.59E-04 | 5.34E-04 | 7.36E-04 | 8.65E-04 | 2.36E-05 | 1.39E-04 | 8.97E-05 | 2.07E-04 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Benzene | 1.40E+00 | 1.49E+00 | 1.57E+00 | 1.81E+00 | 2.03E+00 | 2.20E+00 | 2.94E+00 | 3.35E+00 | 8.39E-03 | 1.60E-01 | 8.54E-01 | 5.26E-01 | 4.80E-01 |
| Massachusetts | Suffolk County | 25025 | U | Benzidine | 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 County | 25025 | U | Beryllium Compounds | 1.95E-04 | 2.04E-04 | 2.35E-04 | 2.71E-04 | 2.75E-04 | 3.13E-04 | 3.40E-04 | 3.69E-04 | 3.81E-08 | 2.74E-04 | 0.00E+00 | 3.68E-07 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | 1,3-Butadiene | 4.54E-02 | 5.35E-02 | 6.55E-02 | 9.07E-02 | 1.26E-01 | 1.42E-01 | 2.52E-01 | 3.18E-01 | 0.00E+00 | 3.60E-04 | 7.38E-02 | 5.23E-02 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Cadmium Compounds | 5.36E-05 | 6.64E-05 | 7.34E-05 | 9.10E-05 | 9.60E-05 | 1.09E-04 | 1.38E-04 | 1.59E-04 | 4.98E-07 | 9.40E-05 | 0.00E+00 | 1.50E-06 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Carbon Disulfide | 5.04E-02 | 5.05E-02 | 5.07E-02 | 5.15E-02 | 5.32E-02 | 5.36E-02 | 5.81E-02 | 6.50E-02 | 2.64E-04 | 5.96E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 |
| Massachusetts | Suffolk County | 25025 | U | Carbon Tetrachloride | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 8.81E-01 | 3.68E-06 | 1.13E-03 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| Massachusetts | Suffolk County | 25025 | U | Chloroform | 1.79E-01 | 1.81E-01 | 2.09E-01 | 2.48E-01 | 2.52E-01 | 2.84E-01 | 3.19E-01 | 3.53E-01 | 2.14E-05 | 1.69E-01 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| Massachusetts | Suffolk County | 25025 | U | Chromium Compounds (includes Hexavalent) | 2.82E-04 | 2.99E-04 | 3.16E-04 | 3.47E-04 | 3.83E-04 | 4.36E-04 | 5.24E-04 | 6.07E-04 | 4.46E-05 | 2.55E-04 | 7.38E-05 | 9.55E-06 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Chromium VI | 7.92E-05 | 8.56E-05 | 9.49E-05 | 1.12E-04 | 1.31E-04 | 1.52E-04 | 2.08E-04 | 2.47E-04 | 5.97E-06 | 9.22E-05 | 2.95E-05 | 3.25E-06 | 0.00E+00 |
| Massachusetts | Suffolk County | 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 County | 25025 | U | 1,4-Dichlorobenzene | 5.82E-02 | 6.32E-02 | 7.41E-02 | 9.68E-02 | 9.93E-02 | 1.17E-01 | 1.38E-01 | 1.59E-01 | 1.84E-04 | 9.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | 1,3-Dichloropropene | 1.13E-01 | 1.24E-01 | 1.45E-01 | 1.92E-01 | 1.97E-01 | 2.35E-01 | 2.77E-01 | 3.21E-01 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | 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 | 1.12E-06 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| Massachusetts | Suffolk County | 25025 | U | Ethylene Dichloride | 6.13E-02 | 6.13E-02 | 6.14E-02 | 6.14E-02 | 6.14E-02 | 6.14E-02 | 6.15E-02 | 6.15E-02 | 2.43E-04 | 2.06E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| Massachusetts | Suffolk County | 25025 | U | Ethylene Oxide | 5.23E-04 | 5.49E-04 | 6.26E-04 | 9.20E-04 | 1.58E-03 | 1.50E-03 | 3.13E-03 | 4.76E-03 | 0.00E+00 | 1.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Formaldehyde | 1.30E+00 | 1.43E+00 | 1.69E+00 | 2.16E+00 | 2.39E+00 | 2.91E+00 | 3.66E+00 | 4.12E+00 | 1.74E-04 | 5.40E-02 | 6.51E-01 | 1.44E+00 | 2.50E-01 |
| Massachusetts | Suffolk County | 25025 | U | Hexachlorobenzene | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 9.31E-05 | 0.00E+00 | 9.42E-08 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| Massachusetts | Suffolk County | 25025 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 6.67E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| Massachusetts | Suffolk County | 25025 | U | Hexamethylene Diisocyanate | 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 County | 25025 | U | Hydrazine | 6.39E-07 | 6.85E-07 | 8.73E-07 | 1.12E-06 | 1.49E-06 | 1.76E-06 | 3.01E-06 | 3.77E-06 | 0.00E+00 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Lead Compounds | 1.19E-03 | 1.25E-03 | 1.32E-03 | 1.44E-03 | 1.61E-03 | 1.71E-03 | 2.25E-03 | 2.69E-03 | 7.69E-06 | 7.37E-04 | 0.00E+00 | 8.61E-04 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Manganese Compounds | 1.65E-04 | 1.77E-04 | 2.19E-04 | 2.62E-04 | 2.94E-04 | 3.20E-04 | 4.56E-04 | 5.83E-04 | 1.08E-05 | 2.32E-04 | 2.36E-05 | 2.78E-05 | 0.00E+00 |
| Massachusetts | Suffolk County | 25025 | U | Mercury Compounds | 1.70E-03 | 1.74E-03 | 1.80E-03 | 1.89E-03 | 1.91E-03 | 1.99E-03 | 2.14E-03 | 2.21E-03 | 1.60E-05 | 1.16E-04 | 9.01E-05 | 1.87E-04 | 1.50E-03 |
| Massachusetts | Suffolk County | 25025 | U | Methylene Chloride | 3.88E-01 | 4.00E-01 | 4.38E-01 | 4.94E-01 | 6.27E-01 | 6.19E-01 | 8.83E-01 | 1.53E+00 | 1.53E-02 | 4.62E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| Massachusetts | Suffolk County | 25025 | U | Nickel Compounds | 6.45E-04 | 7.19E-04 | 8.52E-04 | 1.22E-03 | 1.75E-03 | 2.28E-03 | 3.64E-03 | 4.50E-03 | 5.66E-04 | 8.44E-04 | 5.48E-05 | 2.82E-04 | 0.00E+00 |
| Massachusetts | Suffolk County | | | | | | | | | | | | | | | | |

DRAFT FOR REVIEW ONLY
 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 | Suffolk County | 25025 | U | Vinyl Chloride | 3.05E-03 | 3.17E-03 | 3.75E-03 | 4.06E-03 | 4.80E-03 | 4.35E-03 | 5.20E-03 | 5.95E-03 | 2.74E-03 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Acetaldehyde | 1.27E-01 | 1.52E-01 | 2.08E-01 | 3.12E-01 | 3.41E-01 | 4.15E-01 | 5.87E-01 | 7.41E-01 | 1.17E-05 | 3.21E-02 | 2.74E-01 | 3.51E-02 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Acrolein | 3.02E-02 | 3.21E-02 | 3.95E-02 | 5.07E-02 | 5.13E-02 | 5.93E-02 | 7.11E-02 | 7.78E-02 | 2.06E-07 | 9.71E-03 | 3.55E-02 | 6.11E-03 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Acrylonitrile | 1.13E-03 | 1.42E-03 | 2.05E-03 | 3.34E-03 | 4.43E-03 | 4.57E-03 | 6.53E-03 | 8.88E-03 | 2.62E-03 | 1.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Arsenic Compounds | 3.31E-05 | 3.74E-05 | 6.03E-05 | 8.11E-05 | 8.85E-05 | 1.09E-04 | 1.31E-04 | 1.54E-04 | 6.30E-07 | 3.65E-05 | 4.15E-05 | 9.85E-06 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Benzene | 7.46E-01 | 7.92E-01 | 9.10E-01 | 1.03E+00 | 1.07E+00 | 1.18E+00 | 1.36E+00 | 1.50E+00 | 6.77E-03 | 1.33E-01 | 3.73E-01 | 8.15E-02 | 4.80E-01 | |
| Massachusetts | Worcester County | 25027 | U | Benzidine | 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 County | 25027 | U | Beryllium Compounds | 9.19E-06 | 1.50E-05 | 4.06E-05 | 5.52E-05 | 7.61E-05 | 9.99E-05 | 1.59E-04 | 1.75E-04 | 7.74E-08 | 7.58E-05 | 0.00E+00 | 2.50E-07 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | 1,3-Butadiene | 9.77E-03 | 1.15E-02 | 1.92E-02 | 3.34E-02 | 4.17E-02 | 5.24E-02 | 7.45E-02 | 9.42E-02 | 1.04E-08 | 1.06E-03 | 3.29E-02 | 7.68E-03 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Cadmium Compounds | 1.18E-05 | 1.38E-05 | 2.08E-05 | 2.72E-05 | 2.93E-05 | 3.46E-05 | 4.43E-05 | 5.40E-05 | 3.51E-06 | 2.55E-05 | 0.00E+00 | 2.51E-07 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Carbon Disulfide | 4.77E-02 | 4.78E-02 | 4.83E-02 | 4.90E-02 | 4.95E-02 | 5.01E-02 | 5.16E-02 | 5.27E-02 | 3.44E-04 | 2.13E-03 | 0.00E+00 | 0.00E+00 | 4.70E-02 | |
| Massachusetts | Worcester County | 25027 | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.81E-01 | 4.80E-06 | 3.34E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 | |
| Massachusetts | Worcester County | 25027 | U | Chloroform | 9.22E-02 | 9.45E-02 | 1.02E-01 | 1.10E-01 | 1.14E-01 | 1.22E-01 | 1.39E-01 | 1.60E-01 | 2.79E-05 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 8.30E-02 | |
| Massachusetts | Worcester County | 25027 | U | Chromium Compounds (includes Hexavalent) | 4.55E-05 | 5.59E-05 | 7.82E-05 | 1.21E-04 | 1.69E-04 | 1.67E-04 | 2.37E-04 | 2.98E-04 | 9.36E-06 | 1.25E-04 | 3.34E-05 | 1.17E-06 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Chromium VI | 1.33E-05 | 1.80E-05 | 2.47E-05 | 3.45E-05 | 3.72E-05 | 4.32E-05 | 5.89E-05 | 6.84E-05 | 1.67E-06 | 2.18E-05 | 1.34E-05 | 3.99E-07 | 0.00E+00 | |
| Massachusetts | Worcester County | 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 County | 25027 | U | 1,4-Dichlorobenzene | 1.00E-02 | 1.16E-02 | 1.85E-02 | 2.58E-02 | 3.02E-02 | 3.76E-02 | 5.41E-02 | 7.78E-02 | 2.41E-04 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | 1,3-Dichloropropene | 1.88E-02 | 2.24E-02 | 3.60E-02 | 5.05E-02 | 6.01E-02 | 7.46E-02 | 1.09E-01 | 1.58E-01 | 0.00E+00 | 6.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 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 | 7.71E-03 | 1.46E-06 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 7.70E-03 | |
| Massachusetts | Worcester County | 25027 | U | Ethylene Dichloride | 6.11E-02 | 6.12E-02 | 6.12E-02 | 6.14E-02 | 6.15E-02 | 6.15E-02 | 6.18E-02 | 6.21E-02 | 3.16E-04 | 2.10E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 | |
| Massachusetts | Worcester County | 25027 | U | Ethylene Oxide | 1.03E-04 | 1.44E-04 | 2.62E-04 | 4.66E-04 | 9.58E-04 | 6.81E-04 | 1.56E-03 | 5.54E-03 | 0.00E+00 | 9.58E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Formaldehyde | 4.20E-01 | 4.35E-01 | 5.30E-01 | 6.45E-01 | 6.78E-01 | 7.61E-01 | 9.42E-01 | 1.13E+00 | 6.14E-04 | 3.31E-02 | 3.21E-01 | 7.28E-02 | 2.50E-01 | |
| Massachusetts | Worcester County | 25027 | U | Hexachlorobenzene | 9.33E-05 | 9.33E-05 | 9.34E-05 | 9.36E-05 | 9.36E-05 | 9.37E-05 | 9.39E-05 | 9.40E-05 | 0.00E+00 | 5.93E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | |
| Massachusetts | Worcester County | 25027 | U | Hexachlorobutadiene | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 1.80E-03 | 0.00E+00 | 1.93E-07 | 0.00E+00 | 0.00E+00 | 1.80E-03 | |
| Massachusetts | Worcester County | 25027 | U | Hexamethylene Diisocyanate | 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 County | 25027 | U | Hydrazine | 1.60E-09 | 2.76E-09 | 1.03E-08 | 2.32E-08 | 6.29E-08 | 6.77E-08 | 1.64E-07 | 2.51E-07 | 0.00E+00 | 6.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Lead Compounds | 5.47E-04 | 6.01E-04 | 7.05E-04 | 9.36E-04 | 1.26E-03 | 1.38E-03 | 2.02E-03 | 2.74E-03 | 3.60E-05 | 5.81E-04 | 0.00E+00 | 6.39E-04 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Manganese Compounds | 5.06E-05 | 5.76E-05 | 8.01E-05 | 1.06E-04 | 1.37E-04 | 1.57E-04 | 2.46E-04 | 2.70E-04 | 9.61E-07 | 1.24E-04 | 1.07E-05 | 1.02E-06 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Mercury Compounds | 1.53E-03 | 1.54E-03 | 1.56E-03 | 1.59E-03 | 1.59E-03 | 1.61E-03 | 1.63E-03 | 1.67E-03 | 6.18E-06 | 3.29E-05 | 4.22E-05 | 8.06E-06 | 1.50E-03 | |
| Massachusetts | Worcester County | 25027 | U | Methylene Chloride | 1.95E-01 | 2.06E-01 | 2.41E-01 | 2.91E-01 | 3.21E-01 | 3.62E-01 | 4.75E-01 | 5.67E-01 | 9.62E-03 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 | |
| Massachusetts | Worcester County | 25027 | U | Nickel Compounds | 1.62E-04 | 1.81E-04 | 3.37E-04 | 8.17E-04 | 1.16E-03 | 1.54E-03 | 1.92E-03 | 2.83E-03 | 1.02E-05 | 1.12E-03 | 2.49E-05 | 1.96E-06 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Perchloroethylene | 1.53E-01 | 1.54E-01 | 1.64E-01 | 1.78E-01 | 1.80E-01 | 1.80E-01 | 1.91E-01 | 2.06E-01 | 2.15E-01 | 4.76E-03 | 3.49E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| Massachusetts | Worcester County | 25027 | U | Polychlorinated Biphenyls | 4.14E-04 | 4.19E-04 | 4.32E-04 | 4.48E-04 | 4.53E-04 | 4.65E-04 | 4.86E-04 | 5.09E-04 | 0.00E+00 | 7.30E-05 | 0.00E+00 | 0.00E+00 | 3.80E-04 | |
| Massachusetts | Worcester County | 25027 | U | Polycyclic Organic Matter | 2.60E-02 | 2.97E-02 | 3.90E-02 | 5.16E-02 | 5.33E-02 | 6.45E-02 | 7.75E-02 | 8.48E-02 | 5.93E-06 | 4.17E-02 | 1.02E-02 | 1.34E-03 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | 7-PAH | 1.12E-03 | 1.22E-03 | 1.34E-03 | 1.58E-03 | 1.61E-03 | 1.82E-03 | 2.02E-03 | 2.29E-03 | 3.17E-09 | 1.52E-03 | 7.04E-05 | 1.61E-05 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Propylene Dichloride | 6.75E-05 | 8.41E-05 | 1.21E-04 | 2.00E-04 | 2.65E-04 | 2.72E-04 | 3.96E-04 | 5.36E-04 | 1.58E-04 | 1.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Quinoline | 2.77E-08 | 3.39E-08 | 6.75E-08 | 1.14E-07 | 2.06E-07 | 2.32E-07 | 4.67E-07 | 6.82E-07 | 0.00E+00 | 2.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | 1,1,2,2-Tetrachloroethane | 6.09E-04 | 7.26E-04 | 1.05E-03 | 1.75E-03 | 2.39E-03 | 2.45E-03 | 3.59E-03 | 4.89E-03 | 1.45E-03 | 9.33E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| Massachusetts | Worcester County | 25027 | U | Trichloroethylene | 9.31E-02 | 9.47E-02 | 1.02E-01 | 1.15E-01 | 1.33E-01 | 1.30E-01 | 1.68E-01 | 2.13E-01 | 1.30E-02 | 3.85E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | |
| Massachusetts | Worcester County | 25027 | U | Vinyl Chloride | 1.50E-03 | 1.79E-03 | 2.60E-03 | 4.30E-03 | 5.88E-03 | 6.03E-03 | 8.84E-03 | 1.20E-02 | 3.58E-03 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |