

1996 Modeled Ambient Concentration for the United States

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

- The modeled estimates presented here are not a direct indicator of risk because they do not factor in the extent to which people are exposed to these pollutants or the widely varying toxic potential of different substances. EPA uses these ambient concentration estimates in combination with exposure modeling and health effects information to estimate risk.
 - The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
 - Methods of estimating emissions, as well as simplified modeling assumptions, may introduce significant uncertainties into each component of the assessment.
- [For a discussion of limitations, please see <http://www.epa.gov/ttn/atw/nata/natsalim2.html>](http://www.epa.gov/ttn/atw/nata/natsalim2.html)
- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.
 - Note that based on the persistence and bioaccumulation potential of lead, mercury, PCBs (polychlorinated biphenyls), hexachlorobenzene, 7-PAH (polycyclic aromatic hydrocarbons), POM (polycyclic organic matter) and cadmium, ingestion rather than inhalation may contribute substantially to exposures of concern, and this assessment does not address pollutant levels that may be ingested from food, water, or soil.

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

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

| State | County | FIPS | Urban or Rural | Pollutant | Percentile Distribution of Ambient Concentrations Across Census Tracts | | | | | | | Contribution to Average from ... | | | | | |
|----------|--------------------|------|----------------|---------------------------|------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------------------------------|----------|----------------|---------------|----------------|----------------------|
| | | | | | 5th | 10th | 25th | Median | Average | 75th | 90th | 95th | Major | Area and Other | Onroad Mobile | Nonroad Mobile | Estimated Background |
| National | Nationwide | N/A | N/A | Acetaldehyde | 5.96E-02 | 9.84E-02 | 2.26E-01 | 5.62E-01 | 8.02E-01 | 1.05E+00 | 1.68E+00 | 2.26E+00 | 6.83E-03 | 7.45E-02 | 4.38E-01 | 2.83E-01 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Acrolein | 1.36E-02 | 2.35E-02 | 4.48E-02 | 8.45E-02 | 1.19E-01 | 1.43E-01 | 2.42E-01 | 3.56E-01 | 3.48E-03 | 2.52E-02 | 4.93E-02 | 4.13E-02 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Acrylonitrile | 2.70E-05 | 5.84E-05 | 2.04E-04 | 7.85E-04 | 5.04E-03 | 2.76E-03 | 7.94E-03 | 1.73E-02 | 4.21E-03 | 8.33E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Arsenic Compounds | 2.23E-06 | 6.05E-06 | 2.25E-05 | 6.21E-05 | 1.46E-04 | 1.37E-04 | 2.52E-04 | 4.00E-04 | 5.00E-05 | 8.75E-05 | 6.47E-07 | 7.65E-06 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Benzene | 5.62E-01 | 6.10E-01 | 7.87E-01 | 1.21E+00 | 1.39E+00 | 1.78E+00 | 2.37E+00 | 2.84E+00 | 3.70E-02 | 8.72E-02 | 5.54E-01 | 2.34E-01 | 4.80E-01 |
| National | Nationwide | N/A | N/A | Beryllium Compounds | 3.14E-07 | 7.40E-07 | 3.13E-06 | 1.08E-05 | 3.11E-05 | 2.16E-05 | 3.93E-05 | 6.10E-05 | 2.43E-06 | 2.86E-05 | 0.00E+00 | 6.69E-08 | 0.00E+00 |
| National | Nationwide | N/A | N/A | 1,3-Butadiene | 5.92E-03 | 9.52E-03 | 2.25E-02 | 5.39E-02 | 7.18E-02 | 9.38E-02 | 1.46E-01 | 1.89E-01 | 1.43E-03 | 9.24E-03 | 4.63E-02 | 1.48E-02 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Cadmium Compounds | 1.37E-06 | 3.29E-06 | 1.39E-05 | 5.13E-05 | 2.12E-04 | 1.74E-04 | 5.01E-04 | 7.83E-04 | 2.51E-05 | 1.86E-04 | 0.00E+00 | 9.34E-07 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.81E-01 | 8.82E-01 | 8.83E-01 | 5.42E-04 | 6.63E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| National | Nationwide | N/A | N/A | Chloroform | 8.31E-02 | 8.32E-02 | 8.35E-02 | 8.47E-02 | 8.94E-02 | 8.73E-02 | 9.61E-02 | 1.06E-01 | 2.73E-03 | 3.69E-03 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| National | Nationwide | N/A | N/A | Chromium Compounds | 1.70E-05 | 3.97E-05 | 1.68E-04 | 7.95E-04 | 2.33E-03 | 2.65E-03 | 5.56E-03 | 8.43E-03 | 3.51E-04 | 1.79E-03 | 4.22E-05 | 1.39E-04 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Coke Oven Emissions | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-03 | 0.00E+00 | 7.38E-04 | 4.79E-03 | 1.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | 1,3-Dichloropropene | 2.53E-03 | 5.17E-03 | 2.01E-02 | 6.45E-02 | 9.53E-02 | 1.19E-01 | 2.24E-01 | 3.33E-01 | 3.13E-06 | 9.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Diesel Particulate Matter | 3.28E-01 | 4.86E-01 | 8.49E-01 | 1.53E+00 | 2.06E+00 | 2.45E+00 | 3.66E+00 | 5.37E+00 | 0.00E+00 | 0.00E+00 | 6.30E-01 | 1.43E+00 | *** |
| National | Nationwide | N/A | N/A | Ethylenedibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.73E-03 | 7.70E-03 | 7.71E-03 | 7.72E-03 | 1.21E-05 | 2.09E-05 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| National | Nationwide | N/A | N/A | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.11E-02 | 6.32E-02 | 6.15E-02 | 6.29E-02 | 6.71E-02 | 1.90E-03 | 2.75E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| National | Nationwide | N/A | N/A | Ethylene Oxide | 2.82E-05 | 7.07E-05 | 3.53E-04 | 1.60E-03 | 4.14E-03 | 4.13E-03 | 8.47E-03 | 1.40E-02 | 4.64E-04 | 3.67E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Formaldehyde | 3.45E-01 | 4.05E-01 | 5.61E-01 | 8.90E-01 | 1.25E+00 | 1.44E+00 | 2.24E+00 | 3.15E+00 | 1.15E-02 | 1.38E-01 | 3.76E-01 | 4.77E-01 | 2.50E-01 |
| National | Nationwide | N/A | N/A | Hexachlorobenzene | 9.30E-05 | 9.30E-05 | 9.30E-05 | 9.34E-05 | 9.31E-05 | 9.34E-05 | 9.42E-05 | 7.55E-08 | 3.48E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 | |
| National | Nationwide | N/A | N/A | Hydrazine | 3.66E-11 | 2.90E-10 | 4.99E-09 | 4.40E-08 | 9.77E-06 | 3.01E-07 | 6.46E-06 | 2.18E-05 | 3.27E-06 | 6.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Lead Compounds | 3.67E-05 | 8.95E-05 | 3.98E-04 | 1.88E-03 | 5.99E-03 | 6.10E-03 | 1.54E-02 | 2.50E-02 | 4.93E-04 | 2.16E-03 | 5.88E-05 | 3.28E-03 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Manganese Compounds | 5.71E-05 | 1.43E-04 | 5.63E-04 | 1.46E-03 | 3.13E-03 | 3.27E-03 | 6.54E-03 | 9.27E-03 | 9.06E-04 | 2.06E-03 | 1.72E-05 | 1.41E-04 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Mercury Compounds | 1.51E-03 | 1.52E-03 | 1.56E-03 | 1.69E-03 | 2.06E-03 | 2.00E-03 | 2.67E-03 | 3.77E-03 | 6.17E-05 | 4.69E-04 | 5.60E-07 | 2.90E-05 | 1.50E-03 |
| National | Nationwide | N/A | N/A | Methylene Chloride | 1.56E-01 | 1.63E-01 | 2.09E-01 | 3.40E-01 | 4.70E-01 | 5.62E-01 | 9.22E-01 | 1.19E+00 | 6.20E-02 | 2.58E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| National | Nationwide | N/A | N/A | Nickel Compounds | 2.43E-05 | 5.57E-05 | 2.47E-04 | 9.48E-04 | 2.22E-03 | 2.79E-03 | 5.29E-03 | 7.58E-03 | 3.39E-04 | 1.53E-03 | 3.28E-05 | 3.22E-04 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Perchloroethylene | 1.42E-01 | 1.46E-01 | 1.66E-01 | 2.43E-01 | 3.23E-01 | 3.68E-01 | 5.98E-01 | 7.80E-01 | 2.30E-02 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| National | Nationwide | N/A | N/A | Polychlorinated Biphenyls | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.81E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.67E-09 | 1.09E-06 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| National | Nationwide | N/A | N/A | Polycyclic Organic Matter | 4.74E-03 | 8.13E-03 | 2.25E-02 | 5.79E-02 | 9.07E-02 | 1.10E-01 | 2.13E-01 | 3.06E-01 | 6.63E-03 | 8.37E-02 | 2.60E-04 | 9.44E-05 | 0.00E+00 |
| National | Nationwide | N/A | N/A | 7-PAH | 2.91E-04 | 5.22E-04 | 1.11E-03 | 2.70E-03 | 4.36E-03 | 5.09E-03 | 1.02E-02 | 1.52E-02 | 2.17E-04 | 4.00E-03 | 1.18E-04 | 2.55E-05 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Propylene Dichloride | 1.51E-06 | 3.50E-06 | 1.20E-05 | 4.16E-05 | 4.04E-04 | 1.34E-04 | 3.98E-04 | 8.71E-04 | 3.55E-04 | 4.90E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Quinoline | 7.86E-10 | 4.86E-09 | 4.10E-08 | 2.53E-07 | 4.33E-05 | 1.05E-06 | 3.31E-06 | 5.44E-05 | 2.96E-05 | 1.36E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | 1,1,2,2-Tetrachloroethane | 9.99E-06 | 2.36E-05 | 8.38E-05 | 3.13E-04 | 1.71E-03 | 1.03E-03 | 3.05E-03 | 5.96E-03 | 1.37E-03 | 3.35E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | Nationwide | N/A | N/A | Trichloroethylene | 8.16E-02 | 8.26E-02 | 9.03E-02 | 1.18E-01 | 1.79E-01 | 1.85E-01 | 3.18E-01 | 4.60E-01 | 2.70E-02 | 7.12E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| National | Nationwide | N/A | N/A | Vinyl Chloride | 2.96E-05 | 7.20E-05 | 2.62E-04 | 1.06E-03 | 5.66E-03 | 3.95E-03 | 1.14E-02 | 2.04E-02 | 4.37E-03 | 1.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Acetaldehyde | 1.26E-01 | 2.01E-01 | 4.01E-01 | 7.43E-01 | 9.67E-01 | 1.19E+00 | 1.84E+00 | 2.59E+00 | 7.02E-03 | 8.33E-02 | 5.29E-01 | 3.48E-01 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Acrolein | 2.27E-02 | 3.49E-02 | 6.21E-02 | 1.03E-01 | 1.39E-01 | 1.63E-01 | 2.67E-01 | 3.97E-01 | 4.21E-03 | 2.48E-02 | 5.93E-02 | 5.07E-02 | 0.00E+00 |

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

| Estimated Annual Average Ambient Concentrations ($\mu\text{g}/\text{m}^3$) for the United States | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------|--------------------|------|----------------|---------------------------|------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|---------------|----------------|----------------------|
| State | County | FIPS | Urban or Rural | Pollutant | Percentile Distribution of Ambient Concentrations Across Census Tracts | | | | | | | | | Contribution to Average from ... | | | |
| | | | | | 5th | 10th | 25th | Median | Average | 75th | 90th | 95th | Major | Area and Other | Onroad Mobile | Nonroad Mobile | Estimated Background |
| National | All Urban Counties | N/A | U | Acrylonitrile | 7.60E-05 | 1.42E-04 | 4.09E-04 | 1.16E-03 | 6.16E-03 | 3.83E-03 | 1.01E-02 | 2.07E-02 | 5.16E-03 | 9.97E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Arsenic Compounds | 7.67E-06 | 1.55E-05 | 3.74E-05 | 8.05E-05 | 1.69E-04 | 1.55E-04 | 2.77E-04 | 4.44E-04 | 5.69E-05 | 1.02E-04 | 7.70E-07 | 9.52E-06 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Benzene | 6.48E-01 | 7.48E-01 | 1.00E+00 | 1.41E+00 | 1.57E+00 | 1.94E+00 | 2.52E+00 | 2.98E+00 | 4.57E-02 | 9.18E-02 | 6.67E-01 | 2.82E-01 | 4.80E-01 |
| National | All Urban Counties | N/A | U | Beryllium Compounds | 1.06E-06 | 2.35E-06 | 6.74E-06 | 1.39E-05 | 3.70E-05 | 2.48E-05 | 4.40E-05 | 6.75E-05 | 2.16E-06 | 3.48E-05 | 0.00E+00 | 8.34E-08 | 0.00E+00 |
| National | All Urban Counties | N/A | U | 1,3-Butadiene | 1.11E-02 | 1.76E-02 | 3.63E-02 | 6.65E-02 | 8.41E-02 | 1.06E-01 | 1.58E-01 | 2.03E-01 | 1.74E-03 | 8.68E-03 | 5.57E-02 | 1.79E-02 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Cadmium Compounds | 4.93E-06 | 1.04E-05 | 2.70E-05 | 7.72E-05 | 2.49E-04 | 2.35E-04 | 5.80E-04 | 8.79E-04 | 2.81E-05 | 2.20E-04 | 0.00E+00 | 1.16E-06 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.81E-01 | 8.81E-01 | 8.82E-01 | 8.84E-01 | 6.68E-04 | 8.12E-04 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| National | All Urban Counties | N/A | U | Chloroform | 8.33E-02 | 8.35E-02 | 8.40E-02 | 8.53E-02 | 9.08E-02 | 8.84E-02 | 9.91E-02 | 1.08E-01 | 3.20E-03 | 4.56E-03 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| National | All Urban Counties | N/A | U | Chromium Compounds | 5.60E-05 | 1.17E-04 | 3.65E-04 | 1.26E-03 | 2.77E-03 | 3.26E-03 | 6.29E-03 | 9.37E-03 | 4.05E-04 | 2.14E-03 | 5.02E-05 | 1.72E-04 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Coke Oven Emissions | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-03 | 0.00E+00 | 1.92E-03 | 6.37E-03 | 1.72E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | 1,3-Dichloropropene | 8.34E-03 | 1.65E-02 | 4.38E-02 | 8.18E-02 | 1.16E-01 | 1.41E-01 | 2.58E-01 | 3.71E-01 | 3.83E-06 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Diesel Particulate Matter | 5.13E-01 | 7.18E-01 | 1.17E+00 | 1.86E+00 | 2.41E+00 | 2.70E+00 | 4.09E+00 | 6.06E+00 | 0.00E+00 | 0.00E+00 | 7.25E-01 | 1.69E+00 | *** |
| National | All Urban Counties | N/A | U | Ethylene Dibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.74E-03 | 7.70E-03 | 7.71E-03 | 7.73E-03 | 1.50E-05 | 2.63E-05 | 0.00E+00 | 0.00E+00 | 7.70E-03 | |
| National | All Urban Counties | N/A | U | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.11E-02 | 6.12E-02 | 6.37E-02 | 6.17E-02 | 6.35E-02 | 6.95E-02 | 2.34E-03 | 3.37E-04 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| National | All Urban Counties | N/A | U | Ethylene Oxide | 1.20E-04 | 2.66E-04 | 8.55E-04 | 2.30E-03 | 5.02E-03 | 5.01E-03 | 9.87E-03 | 1.63E-02 | 5.26E-04 | 4.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Formaldehyde | 4.21E-01 | 5.10E-01 | 7.18E-01 | 1.06E+00 | 1.44E+00 | 1.62E+00 | 2.46E+00 | 3.73E+00 | 1.28E-02 | 1.34E-01 | 4.54E-01 | 5.88E-01 | 2.50E-01 |
| National | All Urban Counties | N/A | U | Hexachlorobenzene | 9.30E-05 | 9.30E-05 | 9.30E-05 | 9.30E-05 | 9.35E-05 | 9.31E-05 | 9.36E-05 | 9.46E-05 | 9.13E-08 | 4.16E-07 | 0.00E+00 | 0.00E+00 | 9.30E-05 |
| National | All Urban Counties | N/A | U | Hydrazine | 8.29E-10 | 3.00E-09 | 1.51E-08 | 7.86E-08 | 1.21E-05 | 5.18E-07 | 9.97E-06 | 2.74E-05 | 4.01E-06 | 8.13E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Lead Compounds | 1.38E-04 | 2.86E-04 | 9.04E-04 | 3.03E-03 | 7.30E-03 | 7.88E-03 | 1.79E-02 | 2.84E-02 | 5.61E-04 | 2.58E-03 | 7.00E-05 | 4.10E-03 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Manganese Compounds | 1.77E-04 | 3.76E-04 | 9.10E-04 | 1.82E-03 | 3.45E-03 | 3.79E-03 | 7.09E-03 | 9.81E-03 | 9.40E-04 | 2.32E-03 | 2.05E-05 | 1.74E-04 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Mercury Compounds | 1.52E-03 | 1.55E-03 | 1.61E-03 | 1.78E-03 | 2.19E-03 | 2.11E-03 | 2.95E-03 | 4.15E-03 | 6.99E-05 | 5.79E-04 | 6.65E-07 | 3.57E-05 | 1.50E-03 |
| National | All Urban Counties | N/A | U | Methylene Chloride | 1.73E-01 | 1.97E-01 | 2.69E-01 | 4.02E-01 | 5.34E-01 | 6.45E-01 | 1.00E+00 | 1.27E+00 | 7.21E-02 | 3.12E-01 | 0.00E+00 | 0.00E+00 | 1.50E-01 |
| National | All Urban Counties | N/A | U | Nickel Compounds | 8.55E-05 | 1.78E-04 | 5.15E-04 | 1.41E-03 | 2.66E-03 | 3.37E-03 | 5.84E-03 | 8.35E-03 | 3.98E-04 | 1.82E-03 | 3.90E-05 | 4.00E-04 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Perchloroethylene | 1.51E-01 | 1.62E-01 | 2.03E-01 | 2.83E-01 | 3.65E-01 | 4.20E-01 | 6.57E-01 | 8.40E-01 | 2.84E-02 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| National | All Urban Counties | N/A | U | Polychlorinated Biphenyls | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.81E-04 | 3.80E-04 | 3.80E-04 | 3.81E-04 | 3.74E-09 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 3.80E-04 |
| National | All Urban Counties | N/A | U | Polycyclic Organic Matter | 1.03E-02 | 1.78E-02 | 4.00E-02 | 7.15E-02 | 1.08E-01 | 1.30E-01 | 2.41E-01 | 3.33E-01 | 7.54E-03 | 9.97E-02 | 3.07E-04 | 1.13E-04 | 0.00E+00 |
| National | All Urban Counties | N/A | U | 7-PAH | 4.71E-04 | 7.69E-04 | 1.70E-03 | 3.36E-03 | 5.13E-03 | 5.98E-03 | 1.17E-02 | 1.68E-02 | 2.72E-04 | 4.69E-03 | 1.39E-04 | 2.91E-05 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Propylene Dichloride | 4.71E-06 | 8.70E-06 | 2.28E-05 | 6.25E-05 | 5.06E-04 | 1.89E-04 | 4.93E-04 | 1.09E-03 | 4.47E-04 | 5.85E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Quinoline | 9.00E-09 | 2.52E-08 | 1.02E-07 | 4.40E-07 | 5.33E-05 | 1.33E-06 | 4.94E-06 | 8.54E-05 | 3.67E-05 | 1.66E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | 1,1,2,2-Tetrachloroethane | 2.82E-05 | 5.28E-05 | 1.67E-04 | 4.63E-04 | 2.12E-03 | 1.38E-03 | 3.76E-03 | 7.69E-03 | 1.72E-03 | 3.97E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Urban Counties | N/A | U | Trichloroethylene | 8.41E-02 | 8.80E-02 | 1.01E-01 | 1.35E-01 | 2.00E-01 | 2.11E-01 | 3.54E-01 | 5.14E-01 | 3.25E-02 | 8.66E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 |
| National | All Urban Counties | N/A | U | Vinyl Chloride | 8.98E-05 | 1.84E-04 | 5.36E-04 | 1.62E-03 | 7.01E-03 | 5.63E-03 | 1.40E-02 | 2.36E-02 | 5.47E-03 | 1.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Acetaldehyde | 2.47E-02 | 4.10E-02 | 7.84E-02 | 1.33E-01 | 1.72E-01 | 2.24E-01 | 3.45E-01 | 4.30E-01 | 6.12E-03 | 4.10E-02 | 8.84E-02 | 3.69E-02 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Acrolein | 4.11E-03 | 9.31E-03 | 2.17E-02 | 3.65E-02 | 4.39E-02 | 5.50E-02 | 8.13E-02 | 1.04E-01 | 6.92E-04 | 2.67E-02 | 1.10E-02 | 5.49E-03 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Acrylonitrile | 5.38E-06 | 1.39E-05 | 3.97E-05 | 1.05E-04 | 7.97E-04 | 2.80E-04 | 7.00E-04 | 1.29E-03 | 5.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Arsenic Compounds | 4.04E-07 | 1.08E-06 | 3.95E-06 | 1.28E-05 | 5.79E-05 | 3.72E-05 | 9.44E-05 | 1.94E-04 | 2.35E-05 | 3.37E-05 | 1.78E-07 | 5.02E-07 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Benzene | 5.10E-01 | 5.36E-01 | 5.84E-01 | 6.58E-01 | 7.32E-01 | 7.99E-01 | 1.00E+00 | 1.17E+00 | 4.07E-03 | 6.98E-02 | 1.25E-01 | 5.29E-02 | 4.80E-01 |
| National | All Rural Counties | N/A | R | Beryllium Compounds | 7.74E-08 | 1.81E-07 | 5.14E-07 | 1.31E-06 | 8.51E-06 | 3.84E-06 | 9.78E-06 | 1.81E-05 | 3.46E-06 | 5.04E-06 | 0.00E+00 | 4.17E-09 | 0.00E+00 |
| National | All Rural Counties | N/A | R | 1,3-Butadiene | 2.06E-03 | 3.94E-03 | 8.00E-03 | 1.39E-02 | 2.51E-02 | 2.94E-02 | 5.31E-02 | 7.36E-02 | 2.57E-04 | 1.14E-02 | 1.03E-02 | 3.19E-03 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Cadmium Compounds | 2.96E-07 | 7.67E-07 | 2.19E-06 | 6.08E-06 | 7.14E-05 | 1.83E-05 | 5.51E-05 | 1.36E-04 | 1.37E-05 | 5.77E-05 | 0.00E+00 | 5.81E-08 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Carbon Tetrachloride | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 8.80E-01 | 6.21E-05 | 9.88E-05 | 0.00E+00 | 0.00E+00 | 8.80E-01 |
| National | All Rural Counties | N/A | R | Chloroform | 8.30E-02 | 8.30E-02 | 8.31E-02 | 8.33E-02 | 8.43E-02 | 8.35E-02 | 8.42E-02 | 8.64E-02 | 9.45E-04 | 4.02E-04 | 0.00E+00 | 0.00E+00 | 8.30E-02 |
| National | All Rural Counties | N/A | R | Chromium Compounds | 2.83E-06 | 8.42E-06 | 2.55E-05 | 7.47E-05 | 6.53E-04 | 2.48E-04 | 1.06E-03 | 2.43E-03 | 1.46E-04 | 4.81E-04 | 1.17E-05 | 1.41E-05 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Coke Oven Emissions | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Rural Counties | N/A | R | 1,3-Dichloropropene | 5.52E-04 | 1.39E-03 | 3.47E-03 | 7.68E-03 | 1.72E-02 | 2.08E-02 | 4.69E-02 | 6.53E-02 | 4.52E-07 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Diesel Particulate Matter | 1.45E-01 | 2.25E-01 | 4.24E-01 | 6.66E-01 | 7.40E-01 | 9.66E-01 | 1.32E+00 | 1.56E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 4.69E-01 | *** |
| National | All Rural Counties | N/A | R | Ethylene Dibromide | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 9.10E-07 | 4.24E-07 | 0.00E+00 | 0.00E+00 | 7.70E-03 |
| National | All Rural Counties | N/A | R | Ethylene Dichloride | 6.10E-02 | 6.10E-02 | 6.10E-02 | 6.13E-02 | 6.10E-02 | 6.11E-02 | 6.12E-02 | 6.11E-02 | 2.11E-04 | 4.08E-05 | 0.00E+00 | 0.00E+00 | 6.10E-02 |
| National | All Rural Counties | N/A | R | Ethylene Oxide | 4.98E-06 | 1.24E-05 | 4.10E-05 | 1.25E-04 | 7.64E-04 | 4.14E-04 | 1.23E-03 | 2.27E-03 | 2.25E-04 | 5.38E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| National | All Rural Counties | N/A | R | Formaldehyde | 2.84E-01 | 3.13E-01 | 3.81E-01 | 4.67E-01 | 5.48E-01 | 5.93E-01 | 7.69E-01 | 9.16E-01 | 6.47E-03 | 1.56E-01 | 7.92E-02 | 5.61E-02 | 2.50E-01 |
| National | All Rural | | | | | | | | | | | | | | | | |

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

| Estimated Annual Average Ambient Concentrations ($\mu\text{g}/\text{m}^3$) for the United States | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------|--------------------|------|----------------|---------------------------|------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|---------------|----------------|----------------------|--|
| State | County | FIPS | Urban or Rural | Pollutant | Percentile Distribution of Ambient Concentrations Across Census Tracts | | | | | | | | | Contribution to Average from ... | | | | |
| | | | | | 5th | 10th | 25th | Median | Average | 75th | 90th | 95th | Major | Area and Other | Onroad Mobile | Nonroad Mobile | Estimated Background | |
| National | All Rural Counties | N/A | R | Lead Compounds | 7.89E-06 | 1.76E-05 | 5.26E-05 | 1.71E-04 | 9.65E-04 | 5.23E-04 | 1.53E-03 | 3.13E-03 | 2.33E-04 | 5.66E-04 | 1.64E-05 | 1.50E-04 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Manganese Compounds | 1.04E-05 | 2.70E-05 | 9.58E-05 | 3.17E-04 | 1.88E-03 | 9.52E-04 | 2.76E-03 | 5.70E-03 | 7.75E-04 | 1.09E-03 | 4.74E-06 | 1.45E-05 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Mercury Compounds | 1.50E-03 | 1.50E-03 | 1.51E-03 | 1.53E-03 | 1.59E-03 | 1.56E-03 | 1.62E-03 | 1.69E-03 | 3.04E-05 | 5.14E-05 | 1.57E-07 | 3.31E-06 | 1.50E-03 | |
| National | All Rural Counties | N/A | R | Methylene Chloride | 1.51E-01 | 1.53E-01 | 1.58E-01 | 1.72E-01 | 2.25E-01 | 2.17E-01 | 3.21E-01 | 4.34E-01 | 2.34E-02 | 5.15E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | |
| National | All Rural Counties | N/A | R | Nickel Compounds | 4.25E-06 | 1.20E-05 | 3.51E-05 | 1.01E-04 | 5.65E-04 | 3.28E-04 | 9.65E-04 | 1.98E-03 | 1.17E-04 | 4.16E-04 | 9.04E-06 | 2.27E-05 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Perchloroethylene | 1.40E-01 | 1.41E-01 | 1.43E-01 | 1.49E-01 | 1.65E-01 | 1.65E-01 | 2.06E-01 | 2.41E-01 | 2.26E-03 | 2.25E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | |
| National | All Rural Counties | N/A | R | Polychlorinated Biphenyls | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.80E-04 | 3.42E-09 | 1.17E-08 | 0.00E+00 | 0.00E+00 | 3.80E-04 | |
| National | All Rural Counties | N/A | R | Polycyclic Organic Matter | 1.32E-03 | 2.90E-03 | 6.21E-03 | 1.18E-02 | 2.61E-02 | 2.71E-02 | 5.54E-02 | 8.67E-02 | 3.16E-03 | 2.28E-02 | 8.05E-05 | 2.55E-05 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | 7-PAH | 8.42E-05 | 1.89E-04 | 5.10E-04 | 9.11E-04 | 1.41E-03 | 1.65E-03 | 3.04E-03 | 4.11E-03 | 9.20E-06 | 1.35E-03 | 3.88E-05 | 1.19E-05 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Propylene Dichloride | 2.43E-07 | 6.71E-07 | 2.34E-06 | 6.42E-06 | 1.82E-05 | 1.58E-05 | 3.57E-05 | 5.62E-05 | 5.71E-06 | 1.24E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Quinoline | 0.00E+00 | 1.21E-10 | 1.90E-09 | 1.44E-08 | 5.06E-06 | 7.37E-08 | 3.29E-07 | 9.54E-07 | 2.77E-06 | 2.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | 1,1,2,2-Tetrachloroethane | 1.34E-06 | 4.65E-06 | 1.69E-05 | 4.77E-05 | 1.31E-04 | 1.23E-04 | 2.84E-04 | 4.57E-04 | 3.28E-05 | 9.84E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| National | All Rural Counties | N/A | R | Trichloroethylene | 8.11E-02 | 8.13E-02 | 8.19E-02 | 8.40E-02 | 9.96E-02 | 9.29E-02 | 1.17E-01 | 1.51E-01 | 6.09E-03 | 1.25E-02 | 0.00E+00 | 0.00E+00 | 8.10E-02 | |
| National | All Rural Counties | N/A | R | Vinyl Chloride | 3.96E-06 | 1.33E-05 | 5.03E-05 | 1.45E-04 | 5.19E-04 | 3.78E-04 | 9.56E-04 | 1.57E-03 | 1.99E-04 | 3.20E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |