

US EPA ARCHIVE DOCUMENT

1999 DRAFT Modeled Ambient Concentrations for the United States: 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 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>
- 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 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	6.43E-02	1.01E-01	2.35E-01	5.79E-01	1.03E+00	1.25E+00	2.35E+00	3.37E+00	7.17E-02	2.22E-01	5.69E-01	1.64E-01	0.00E+00
National	Nationwide	N/A	N/A	Acrolein	1.12E-02	1.75E-02	3.71E-02	8.22E-02	1.23E-01	1.49E-01	2.75E-01	4.35E-01	5.76E-03	3.35E-02	6.05E-02	2.28E-02	0.00E+00
National	Nationwide	N/A	N/A	Acrylonitrile	2.69E-05	6.23E-05	2.01E-04	6.98E-04	3.91E-03	2.38E-03	7.58E-03	1.45E-02	2.77E-03	1.13E-03	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Arsenic Compounds	8.95E-06	1.74E-05	4.97E-05	1.28E-04	3.56E-04	3.00E-04	6.11E-04	9.04E-04	1.26E-04	1.17E-04	5.05E-05	6.22E-05	0.00E+00
National	Nationwide	N/A	N/A	Benzene	5.73E-01	6.34E-01	8.43E-01	1.25E+00	1.54E+00	1.85E+00	2.77E+00	3.55E+00	2.69E-02	1.87E-01	6.91E-01	1.55E-01	4.80E-01
National	Nationwide	N/A	N/A	Benzidine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-07	0.00E+00	0.00E+00	3.58E-08	1.17E-07	4.85E-07	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Beryllium Compounds	3.12E-07	6.75E-07	2.25E-06	6.99E-06	5.70E-05	7.49E-05	1.54E-04	1.71E-05	3.91E-05	0.00E+00	8.66E-07	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,3-Butadiene	4.35E-03	6.99E-03	1.83E-02	4.41E-02	9.22E-02	9.60E-02	2.15E-01	3.62E-01	2.67E-03	2.11E-02	5.34E-02	1.50E-02	0.00E+00
National	Nationwide	N/A	N/A	Cadmium Compounds	9.35E-07	2.18E-06	7.93E-06	3.50E-05	6.89E-03	1.35E-04	5.19E-04	8.44E-04	6.66E-03	2.18E-04	2.33E-06	1.00E-05	0.00E+00
National	Nationwide	N/A	N/A	Carbon Disulfide	4.71E-02	4.72E-02	4.77E-02	4.93E-02	6.59E-02	5.37E-02	6.62E-02	8.31E-02	1.49E-02	3.98E-03	0.00E+00	0.00E+00	4.70E-02
National	Nationwide	N/A	N/A	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.82E-01	8.81E-01	8.84E-01	8.88E-01	1.63E-03	8.04E-04	0.00E+00	0.00E+00	8.80E-01
National	Nationwide	N/A	N/A	Chloroform	8.38E-02	8.51E-02	9.19E-02	1.12E-01	1.35E-01	1.46E-01	2.03E-01	2.53E-01	8.20E-03	4.34E-02	0.00E+00	0.00E+00	8.30E-02
National	Nationwide	N/A	N/A	Chromium Compounds (includes Hexavalent)	8.36E-06	2.35E-05	1.03E-04	4.04E-04	2.22E-03	1.46E-03	3.93E-03	5.73E-03	1.06E-03	1.03E-03	6.80E-05	5.67E-05	0.00E+00
National	Nationwide	N/A	N/A	Chromium VI	3.09E-06	7.91E-06	3.11E-05	1.14E-04	5.32E-04	3.75E-04	1.18E-03	1.82E-03	1.60E-04	3.27E-04	2.58E-05	1.93E-05	0.00E+00
National	Nationwide	N/A	N/A	Coke Oven Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03	0.00E+00	5.83E-10	1.84E-02	8.00E-03	2.94E-11	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,4-Dichlorobenzene	1.64E-03	3.36E-03	1.24E-02	3.47E-02	6.06E-02	6.86E-02	1.49E-01	2.18E-01	8.84E-04	5.97E-02	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,3-Dichloropropene	3.31E-03	6.63E-03	2.45E-02	6.80E-02	1.02E-01	1.29E-01	2.50E-01	3.50E-01	1.57E-05	1.02E-01	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.74E-03	7.70E-03	7.72E-03	7.75E-03	1.92E-05	1.65E-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	6.28E-02	6.16E-02	6.31E-02	6.56E-02	1.42E-03	4.25E-04	0.00E+00	0.00E+00	6.10E-02
National	Nationwide	N/A	N/A	Ethylene Oxide	3.56E-05	8.68E-05	3.98E-04	1.67E-03	6.50E-03	6.91E-03	1.57E-02	2.27E-02	1.14E-03	5.36E-03	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Formaldehyde	3.29E-01	3.69E-01	4.98E-01	8.10E-01	1.15E+00	1.36E+00	2.30E+00	3.12E+00	5.48E-02	1.31E-01	4.56E-01	2.59E-01	2.50E-01
National	Nationwide	N/A	N/A	Hexachlorobenzene	9.30E-05	9.30E-05	9.31E-05	9.32E-05	9.45E-05	9.36E-05	9.43E-05	9.52E-05	7.31E-07	7.58E-07	0.00E+00	0.00E+00	9.30E-05
National	Nationwide	N/A	N/A	Hexachlorobutadiene	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.95E-03	1.80E-03	1.81E-03	1.91E-03	1.45E-04	3.00E-06	0.00E+00	0.00E+00	1.80E-03
National	Nationwide	N/A	N/A	Hexamethylene Diisocyanate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05	1.28E-07	4.10E-05	1.36E-04	7.80E-05	1.68E-05	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Hydrazine	4.97E-15	3.87E-11	9.70E-10	1.22E-08	1.02E-04	1.30E-07	4.62E-06	1.58E-05	9.69E-05	5.19E-06	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Lead Compounds	5.99E-05	1.47E-04	5.59E-04	1.91E-03	5.10E-03	5.10E-03	1.18E-02	1.73E-02	1.70E-03	1.98E-03	2.89E-06	1.43E-03	0.00E+00
National	Nationwide	N/A	N/A	Manganese Compounds	1.50E-05	4.62E-05	1.95E-04	7.75E-04	5.26E-03	2.71E-03	1.07E-02	1.61E-02	2.73E-03	2.48E-03	3.73E-05	1.65E-05	0.00E+00
National	Nationwide	N/A	N/A	Mercury Compounds	1.51E-03	1.52E-03	1.54E-03	1.61E-03	1.76E-03	1.75E-03	2.00E-03	2.17E-03	7.53E-05	1.21E-04	4.94E-05	1.92E-05	1.50E-03
National	Nationwide	N/A	N/A	Methylene Chloride	1.57E-01	1.65E-01	2.09E-01	3.18E-01	4.47E-01	5.05E-01	7.89E-01	1.08E+00	7.74E-02	2.19E-01	0.00E+00	0.00E+00	1.50E-01
National	Nationwide	N/A	N/A	Nickel Compounds	1.67E-05	4.64E-05	1.88E-04	6.98E-04	2.23E-03	1.97E-03	4.19E-03	6.47E-03	7.91E-04	1.28E-03	5.67E-05	1.04E-04	0.00E+00
National	Nationwide	N/A	N/A	Perchloroethylene	1.42E-01	1.45E-01	1.61E-01	2.11E-01	3.51E-01	3.08E-01	6.90E-01	1.12E+00	2.88E-02	1.82E-01	0.00E+00	0.00E+00	1.40E-01
National	Nationwide	N/A	N/A	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.82E-04	3.93E-04	4.17E-04	4.19E-04	4.77E-04	5.21E-04	2.96E-06	3.39E-05	0.00E+00	0.00E+00	3.80E-04
National	Nationwide	N/A	N/A	Polycyclic Organic Matter	5.74E-03	1.05E-02	2.70E-02	5.85E-02	9.44E-02	1.12E-01	2.12E-01	3.06E-01	1.03E-02	6.19E-02	1.70E-02	5.18E-03	0.00E+00
National	Nationwide	N/A	N/A	7-PAH	2.67E-04	3.98E-04	6.85E-04	1.25E-03	2.04E-03	2.08E-03	3.58E-03	4.88E-03	9.49E-05	1.78E-03	1.16E-04	4.79E-05	0.00E+00
National	Nationwide	N/A	N/A	Propylene Dichloride	1.17E-06	2.95E-06	9.57E-06	3.32E-05	5.11E-04	1.01E-04	3.21E-04	7.37E-04	4.45E-04	6.62E-05	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Quinoline	2.74E-13	1.17E-09	1.62E-08	1.22E-07	4.06E-05	7.39E-07	4.40E-06	5.78E-05	2.57E-05	1.49E-05	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	1,1,2,2-Tetrachloroethane	3.69E-06	1.45E-05	5.70E-05	2.23E-04	1.12E-03	6.18E-04	1.96E-03	4.46E-03	6.99E-04	4.19E-04	0.00E+00	0.00E+00	0.00E+00
National	Nationwide	N/A	N/A	Trichloroethylene	8.16E-02	8.25E-02	8.80E-02	1.05E-01	1.52E-01	1.41E-01	2.07E-01	2.99E-01	2.35E-02	4.72E-02	0.00E+00	0.00E+00	8.10E-02
National	Nationwide	N/A	N/A	Vinyl Chloride	1.29E-05	4.49E-05	1.80E-04	7.82E-04	6.73E-03	4.07E-03	1.66E-02	3.32E-02	3.53E-03	1.93E-03	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Acetaldehyde	1.29E-01	1.98E-01	3.85E-01	7.46E-01	1.20E+00	1.47E+00	2.61E+00	3.70E+00	8.32E-02	2.44E-01	6.79E-01	1.96E-01	0.00E+00
National	All Urban Counties	N/A	U	Acrolein	1.96E-02	2.98E-02	5.58E-02	1.00E-01	1.43E-01	1.70E-01	3.25E-01	4.71E-01	6.64E-03	3.68E-02	7.19E-02	2.74E-02	0.00E+00
National	All Urban Counties	N/A	U	Acrylonitrile	7.02E-05	1.29E-04	3.54E-04	9.60E-04	4.70E-03	2.94E-03	9.35E-03	1.67E-02	3.37E-03	1.33E-03	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Arsenic Compounds	2.24E-05	3.76E-05	7.98E-05	1.61E-04	3.93E-04	3.60E-04	6.68E-04	1.02E-03	1.20E-04	1.39E-04	5.93E-05	7.57E-05	0.00E+00
National	All Urban Counties	N/A	U	Benzene	6.76E-01	7.82E-01	1.03E+00	1.42E+00	1.72E+00	2.03E+00	3.02E+00	3.78E+00	3.17E-02	2.08E-01	8.19E-01	1.82E-01	4.80E-01
National	All Urban Counties	N/A	U	Benzidine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-07	0.00E+00	1.55E-12	5.73E-08	1.44E-07	5.98E-07	0.00E+00	0.00E+00	0.00E+00
National	All Urban Counties	N/A	U	Beryllium Compounds	6.74E-07	1.30E-06	3.53E-06	9.14E-06	6.80E-05	2.74E-05	9.08E-05	1.99E-04	1.96E-05	4.74E-05	0.00E+00	9.76E-07	0.00E+00
National	All Urban Counties	N/A	U	1,3-Butadiene	8.69E-03	1.41E-02	2.84E-02	5.55E-02	1.09E-01	1.15E-01	2.56E-01	4.05E-01	3.21E-03	2.42E-02	6.35E-02	1.79E-02	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 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	Cadmium Compounds	2.40E-06	5.08E-06	1.47E-05	5.33E-05	8.49E-03	1.81E-04	5.93E-04	9.80E-04	8.21E-03	2.58E-04	2.87E-06	1.22E-05	0.00E+00		
National	All Urban Counties	N/A	U	Carbon Disulfide	4.72E-02	4.74E-02	4.82E-02	5.00E-02	6.74E-02	5.53E-02	6.94E-02	8.77E-02	1.56E-02	4.71E-03	0.00E+00	0.00E+00	4.70E-02		
National	All Urban Counties	N/A	U	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.83E-01	8.81E-01	8.84E-01	8.89E-01	1.61E-03	9.51E-04	0.00E+00	0.00E+00	8.80E-01		
National	All Urban Counties	N/A	U	Chloroform	8.62E-02	8.95E-02	1.00E-01	1.20E-01	1.44E-01	1.56E-01	2.17E-01	2.67E-01	8.45E-03	5.22E-02	0.00E+00	0.00E+00	8.30E-02		
National	All Urban Counties	N/A	U	Chromium Compounds (includes Hexavalent)	2.99E-05	6.02E-05	1.82E-04	5.44E-04	2.57E-03	1.86E-03	4.33E-03	6.21E-03	1.22E-03	1.20E-03	8.16E-05	6.94E-05	0.00E+00		
National	All Urban Counties	N/A	U	Chromium VI	1.03E-05	1.97E-05	5.35E-05	1.52E-04	6.08E-04	4.86E-04	1.33E-03	1.95E-03	1.73E-04	3.80E-04	3.09E-05	2.36E-05	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	9.63E-03	0.00E+00	4.18E-03	2.51E-02	9.63E-03	3.63E-11	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	1,4-Dichlorobenzene	5.21E-03	9.86E-03	2.37E-02	4.37E-02	7.26E-02	8.21E-02	1.71E-01	2.40E-01	1.09E-03	7.16E-02	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	1,3-Dichloropropene	1.01E-02	1.92E-02	4.66E-02	8.45E-02	1.22E-01	1.52E-01	2.83E-01	3.75E-01	1.01E-05	1.22E-01	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.74E-03	7.70E-03	7.73E-03	7.75E-03	2.20E-05	2.02E-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	6.32E-02	6.18E-02	6.37E-02	6.69E-02	1.69E-03	5.07E-04	0.00E+00	0.00E+00	6.10E-02		
National	All Urban Counties	N/A	U	Ethylene Oxide	1.10E-04	2.42E-04	7.64E-04	2.54E-03	7.65E-03	8.66E-03	1.78E-02	2.51E-02	1.24E-03	6.41E-03	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Formaldehyde	3.90E-01	4.54E-01	6.27E-01	9.54E-01	1.30E+00	1.55E+00	2.54E+00	3.35E+00	6.14E-02	1.36E-01	5.43E-01	3.10E-01	2.50E-01		
National	All Urban Counties	N/A	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.32E-05	9.46E-05	9.35E-05	9.43E-05	9.55E-05	7.79E-07	8.29E-07	0.00E+00	0.00E+00	9.30E-05		
National	All Urban Counties	N/A	U	Hexachlorobutadiene	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.83E-03	1.80E-03	1.83E-03	1.93E-03	1.78E-04	3.66E-06	0.00E+00	0.00E+00	1.80E-03		
National	All Urban Counties	N/A	U	Hexamethylene Diisocyanate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	9.53E-07	5.78E-05	1.60E-04	9.45E-05	1.80E-05	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Hydrazine	8.78E-12	1.74E-10	2.23E-09	2.14E-08	1.26E-04	2.45E-07	8.16E-06	2.11E-05	1.19E-04	6.27E-06	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Lead Compounds	1.97E-04	3.93E-04	1.06E-03	2.59E-03	6.00E-03	6.29E-03	1.34E-02	1.88E-02	1.96E-03	2.33E-03	3.41E-06	1.70E-03	0.00E+00		
National	All Urban Counties	N/A	U	Manganese Compounds	3.90E-05	8.69E-05	2.74E-04	9.96E-04	6.01E-03	3.62E-03	1.20E-02	1.73E-02	3.06E-03	2.88E-03	4.53E-05	1.98E-05	0.00E+00		
National	All Urban Counties	N/A	U	Mercury Compounds	1.52E-03	1.53E-03	1.57E-03	1.64E-03	1.76E-03	1.80E-03	2.04E-03	2.20E-03	6.71E-05	1.12E-04	5.77E-05	2.28E-05	1.50E-03		
National	All Urban Counties	N/A	U	Methylene Chloride	1.73E-01	1.94E-01	2.52E-01	3.65E-01	4.96E-01	5.59E-01	8.55E-01	1.17E+00	8.62E-02	2.60E-01	0.00E+00	0.00E+00	1.50E-01		
National	All Urban Counties	N/A	U	Nickel Compounds	5.59E-05	1.17E-04	3.42E-04	9.75E-04	2.60E-03	2.34E-03	4.65E-03	7.10E-03	9.27E-04	1.49E-03	6.82E-05	1.25E-04	0.00E+00		
National	All Urban Counties	N/A	U	Perchloroethylene	1.48E-01	1.56E-01	1.80E-01	2.35E-01	3.95E-01	3.50E-01	8.30E-01	1.31E+00	3.51E-02	2.20E-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	3.81E-04	3.90E-04	4.10E-04	4.13E-04	4.68E-04	5.09E-04	4.46E-08	2.99E-05	0.00E+00	0.00E+00	3.80E-04		
National	All Urban Counties	N/A	U	Polycyclic Organic Matter	1.29E-02	2.14E-02	4.07E-02	7.21E-02	1.10E-01	1.30E-01	2.40E-01	3.33E-01	1.18E-02	7.22E-02	2.02E-02	6.23E-03	0.00E+00		
National	All Urban Counties	N/A	U	7-PAH	3.20E-04	4.44E-04	7.65E-04	1.35E-03	2.20E-03	2.24E-03	3.76E-03	5.05E-03	1.10E-04	1.90E-03	1.37E-04	5.65E-05	0.00E+00		
National	All Urban Counties	N/A	U	Propylene Dichloride	3.16E-06	5.96E-06	1.68E-05	4.48E-05	6.16E-04	1.30E-04	4.13E-04	8.75E-04	5.38E-04	7.76E-05	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Quinoline	3.96E-10	4.45E-09	3.46E-08	2.06E-07	4.68E-05	1.02E-06	7.58E-06	8.19E-05	2.89E-05	1.78E-05	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	1.17E-05	3.08E-05	1.02E-04	3.02E-04	1.35E-03	7.89E-04	2.56E-03	5.42E-03	8.59E-04	4.86E-04	0.00E+00	0.00E+00	0.00E+00		
National	All Urban Counties	N/A	U	Trichloroethylene	8.32E-02	8.57E-02	9.41E-02	1.14E-01	1.64E-01	1.52E-01	2.26E-01	3.31E-01	2.69E-02	5.60E-02	0.00E+00	0.00E+00	8.10E-02		
National	All Urban Counties	N/A	U	Vinyl Chloride	3.71E-05	9.15E-05	3.24E-04	1.21E-03	8.07E-03	5.66E-03	2.02E-02	3.75E-02	4.25E-03	3.82E-03	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Acetaldehyde	3.10E-02	4.25E-02	7.34E-02	1.27E-01	2.74E-01	2.24E-01	4.02E-01	6.11E-01	2.25E-02	1.24E-01	1.01E-01	2.66E-02	0.00E+00		
National	All Rural Counties	N/A	R	Acrolein	5.30E-03	7.73E-03	1.36E-02	2.38E-02	3.64E-02	4.00E-02	7.34E-02	1.05E-01	2.01E-03	1.97E-02	1.16E-02	3.05E-03	0.00E+00		
National	All Rural Counties	N/A	R	Acrylonitrile	4.16E-06	1.18E-05	3.97E-05	1.14E-04	5.30E-04	3.03E-04	8.11E-04	1.60E-03	2.20E-04	3.09E-04	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Arsenic Compounds	2.47E-06	4.77E-06	1.11E-05	2.58E-05	1.95E-04	5.92E-05	1.36E-04	2.55E-04	1.50E-04	2.64E-05	1.31E-05	4.58E-06	0.00E+00		
National	All Rural Counties	N/A	R	Benzene	5.22E-01	5.42E-01	5.93E-01	6.79E-01	7.69E-01	8.46E-01	1.09E+00	1.29E+00	6.62E-03	9.80E-02	1.44E-01	4.00E-02	4.80E-01		
National	All Rural Counties	N/A	R	Benzidine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	4.12E-09	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Beryllium Compounds	6.57E-08	1.56E-07	4.79E-07	1.54E-06	1.02E-05	4.28E-06	1.20E-05	2.36E-05	6.16E-06	3.65E-06	0.00E+00	3.97E-07	0.00E+00		
National	All Rural Counties	N/A	R	1,3-Butadiene	2.19E-03	3.03E-03	5.11E-03	9.89E-03	2.19E-02	2.14E-02	4.30E-02	6.66E-02	3.63E-04	8.18E-03	1.04E-02	2.96E-03	0.00E+00		
National	All Rural Counties	N/A	R	Cadmium Compounds	1.74E-07	4.48E-07	1.47E-06	4.10E-06	7.03E-05	1.21E-05	3.83E-05	1.13E-04	2.58E-05	4.38E-05	3.95E-08	6.85E-07	0.00E+00		
National	All Rural Counties	N/A	R	Carbon Disulfide	4.70E-02	4.70E-02	4.71E-02	4.74E-02	5.97E-02	4.84E-02	5.13E-02	5.67E-02	1.18E-02	8.30E-04	0.00E+00	0.00E+00	4.70E-02		
National	All Rural Counties	N/A	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.82E-01	8.80E-01	8.82E-01	8.85E-01	1.68E-03	1.79E-04	0.00E+00	0.00E+00	8.80E-01		
National	All Rural Counties	N/A	R	Chloroform	8.31E-02	8.33E-02	8.41E-02	8.62E-02	9.61E-02	9.26E-02	1.08E-01	1.24E-01	7.15E-03	5.96E-03	0.00E+00	0.00E+00	8.30E-02		
National	All Rural Counties	N/A	R	Chromium Compounds (includes Hexavalent)	1.19E-06	3.27E-06	1.22E-05	4.87E-05	7.37E-04	2.07E-04	7.79E-04	2.18E-03	4.03E-04	3.22E-04	1.00E-05	2.36E-06	0.00E+00		
National	All Rural Counties	N/A	R	Chromium VI	4.62E-07	1.23E-06	4.36E-06	1.48E-05	2.09E-04	5.47E-05	2.35E-04	5.41E-04	1.01E-04	1.03E-04	3.99E-06	8.01E-07	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	1.07E-03	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	1,4-Dichlorobenzene	3.20E-04	8.21E-04	2.08E-03	4.55E-03	9.15E-03	1.08E-02	2.33E-02	3.30E-02	1.70E-05	9.13E-03	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	1,3-Dichloropropene	6.29E-04	1.66E-03	4.24E-03	9.00E-03	1.91E-02	2.17E-02	4.75E-02	6.71E-02	3.99E-05	1.90E-02	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Ethylene Dibromide	7.70E-03	7.70E-03	7.70E-03	7.70E-03	7.71E-03	7.70E-03	7.70E-03	7.70E-03	7.06E-06	6.88E-07	0.00E+00	0.00E+00	7.70E-03		
National	All Rural Counties	N/A	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.14E-02	6.11E-02	6.14E-02	6.18E-02	2.92E-04	7.13E-05	0.00E+00	0.00E+00	6.10E-02		
National	All Rural Counties	N/A	R	Ethylene Oxide	5.37E-06	1.69E-05	5.17E-05	1.74E-04	1.58E-03	5.94E-04	1.88E-03	3.43E-03	7.19E-04	8.61E-04	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Formaldehyde	2.95E-01	3.07E-01	3.42E-01	4.02E-01	5.07E-01	5.08E-01	7.16E-01	9.88E-01	2.68E-02	1.08E-01	8.14E-02	4.07E-02	2.50E-01		
National	All Rural Counties	N/A	R	Hexachlorobenzene	9.30E-05	9.31E-05	9.31E-05	9.33E-05	9.40E-05	9.36E-05	9.42E-05	9.46E-05	5.29E-07	4.54E-07	0.00E+00	0.00E+00	9.30E-05		
National	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	4.57E-06	1.80E-07	0.00E+00	0.00E+00	1.80E-03		
National	All Rural Counties	N/A	R	Hexamethylene Diisocyanate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	1.22E-06	1.34E-05	7.67E-06	1.15E-05	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Hydrazine	0.00E+00	3.96E-15	5.21E-11	5.64E-10	1.39E-06	5.32E-09	4.75E-08	2.31E-07	8.17E-07	5.75E-07	0.00E+00	0.00E+00	0.00E+00		
National	All Rural Counties	N/A	R	Lead Compounds	7.76E-06	2.19E-05	8.02E-05	2.44E-04	1.30E-03	6.61E-04	1.83E-03	3.60E-03	5.64E-04	4.62E-04	6.94E-07	2.68E-04	0.00E+00		
National																			

DRAFT FOR REVIEW ONLY
Estimated Annual Average Ambient Concentrations µg/m3 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	7-PAH	1.44E-04	2.39E-04	4.79E-04	8.29E-04	1.36E-03	1.44E-03	2.39E-03	3.62E-03	3.13E-05	1.30E-03	2.24E-05	1.10E-05	0.00E+00
National	All Rural Counties	N/A	R	Propylene Dichloride	1.40E-07	4.75E-07	1.95E-06	5.78E-06	6.52E-05	1.47E-05	3.65E-05	6.39E-05	4.77E-05	1.75E-05	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Quinoline	0.00E+00	2.65E-13	1.32E-09	1.08E-08	1.43E-05	5.78E-08	2.48E-07	7.20E-07	1.19E-05	2.36E-06	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	1,1,2,2-Tetrachloroethane	2.59E-07	1.85E-06	1.15E-05	3.88E-05	1.49E-04	1.03E-04	2.81E-04	4.86E-04	1.39E-05	1.35E-04	0.00E+00	0.00E+00	0.00E+00
National	All Rural Counties	N/A	R	Trichloroethylene	8.11E-02	8.13E-02	8.18E-02	8.36E-02	9.97E-02	8.99E-02	1.06E-01	1.25E-01	9.21E-03	9.47E-03	0.00E+00	0.00E+00	8.10E-02
National	All Rural Counties	N/A	R	Vinyl Chloride	1.35E-06	6.35E-06	3.43E-05	1.17E-04	1.02E-03	3.56E-04	1.18E-03	2.37E-03	4.97E-04	5.20E-04	0.00E+00	0.00E+00	0.00E+00