

US EPA ARCHIVE DOCUMENT

## 1999 DRAFT Modeled Ambient Concentrations for Washington DC: 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 Washington DC

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		
Washington DC	Statewide	N/A	N/A	Acetaldehyde	4.58E-01	5.70E-01	6.36E-01	7.37E-01	8.93E-01	8.75E-01	1.58E+00	1.94E+00	6.59E-03	8.44E-03	7.44E-01	1.34E-01	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Acrolein	1.05E-01	1.15E-01	1.26E-01	1.40E-01	1.46E-01	1.60E-01	1.86E-01	2.08E-01	6.84E-05	1.72E-02	9.80E-02	3.06E-02	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Acrylonitrile	6.73E-04	6.82E-04	7.02E-04	7.39E-04	9.71E-04	8.29E-04	1.13E-03	1.40E-03	3.14E-04	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Arsenic Compounds	1.66E-04	1.79E-04	2.11E-04	2.45E-04	2.68E-04	2.95E-04	3.83E-04	4.50E-04	9.42E-05	3.63E-05	1.06E-04	3.09E-05	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Benzene	1.35E+00	1.47E+00	1.55E+00	1.71E+00	1.97E+00	2.04E+00	2.94E+00	3.60E+00	1.33E-03	1.85E-01	1.09E+00	2.13E-01	4.80E-01	4.80E-01	
Washington DC	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	0.00E+00	
Washington DC	Statewide	N/A	N/A	Beryllium Compounds	1.65E-05	1.77E-05	1.95E-05	2.28E-05	2.41E-05	2.64E-05	3.21E-05	3.76E-05	4.81E-06	1.80E-05	0.00E+00	1.24E-06	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	1,3-Butadiene	5.16E-02	5.65E-02	6.77E-02	8.45E-02	1.25E-01	1.22E-01	2.70E-01	3.81E-01	0.00E+00	6.57E-05	1.06E-01	1.88E-02	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Cadmium Compounds	3.27E-05	3.38E-05	3.71E-05	4.18E-05	4.39E-05	4.82E-05	5.61E-05	6.36E-05	1.81E-05	2.46E-05	0.00E+00	1.25E-06	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Carbon Disulfide	4.87E-02	4.88E-02	4.88E-02	4.92E-02	5.13E-02	4.96E-02	5.11E-02	5.32E-02	1.14E-04	4.19E-03	0.00E+00	0.00E+00	4.70E-02	4.70E-02	
Washington DC	Statewide	N/A	N/A	Carbon Tetrachloride	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.82E-01	8.81E-01	8.82E-01	8.82E-01	1.50E-06	1.54E-03	0.00E+00	0.00E+00	8.80E-01	8.80E-01	
Washington DC	Statewide	N/A	N/A	Chloroform	1.35E-01	1.42E-01	1.50E-01	1.63E-01	1.71E-01	1.81E-01	2.05E-01	2.26E-01	3.35E-06	8.79E-02	0.00E+00	0.00E+00	8.30E-02	8.30E-02	
Washington DC	Statewide	N/A	N/A	Chromium Compounds (includes Hexavalent)	1.52E-04	1.60E-04	2.51E-04	3.18E-04	3.09E-04	3.55E-04	4.25E-04	4.86E-04	1.66E-04	4.38E-05	9.68E-05	3.02E-06	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Chromium VI	4.52E-05	4.76E-05	5.69E-05	6.89E-05	7.44E-05	7.95E-05	1.11E-04	1.39E-04	1.84E-05	1.62E-05	3.87E-05	1.03E-06	0.00E+00	0.00E+00	
Washington DC	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	0.00E+00	
Washington DC	Statewide	N/A	N/A	1,4-Dichlorobenzene	5.38E-02	6.10E-02	7.20E-02	8.80E-02	9.66E-02	1.14E-01	1.44E-01	1.73E-01	2.89E-05	9.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	1,3-Dichloropropene	1.04E-01	1.18E-01	1.40E-01	1.73E-01	1.91E-01	2.26E-01	2.85E-01	3.48E-01	0.00E+00	1.91E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Ethylene Dibromide	7.71E-03	7.72E-03	1.76E-07	1.75E-05	0.00E+00	0.00E+00	7.70E-03	7.70E-03							
Washington DC	Statewide	N/A	N/A	Ethylene Dichloride	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	4.81E-05	4.48E-05	0.00E+00	0.00E+00	6.10E-02	6.10E-02	
Washington DC	Statewide	N/A	N/A	Ethylene Oxide	4.59E-03	4.71E-03	5.02E-03	5.79E-03	6.71E-03	6.87E-03	8.05E-03	1.05E-02	0.00E+00	6.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Formaldehyde	8.65E-01	9.78E-01	1.07E+00	1.20E+00	1.38E+00	1.42E+00	2.17E+00	2.62E+00	8.63E-03	2.11E-02	8.30E-01	2.71E-01	2.50E-01	2.50E-01	
Washington DC	Statewide	N/A	N/A	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.33E-05	9.33E-05	9.33E-05	8.67E-08	4.51E-08	0.00E+00	0.00E+00	9.30E-05	9.30E-05	
Washington DC	Statewide	N/A	N/A	Hexachlorobutadiene	1.84E-03	1.84E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.86E-03	1.86E-03	0.00E+00	5.17E-05	0.00E+00	0.00E+00	1.80E-03	1.80E-03	
Washington DC	Statewide	N/A	N/A	Hexamethylene Diisocyanate	3.56E-05	3.79E-05	4.18E-05	4.58E-05	4.67E-05	5.09E-05	5.81E-05	6.24E-05	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Hydrazine	3.31E-09	3.97E-09	5.96E-09	8.21E-09	1.22E-08	1.26E-08	1.98E-08	3.44E-08	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Lead Compounds	1.37E-03	1.42E-03	1.59E-03	1.74E-03	1.89E-03	2.07E-03	2.48E-03	2.93E-03	1.45E-04	3.37E-04	0.00E+00	1.41E-03	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Manganese Compounds	3.15E-04	3.52E-04	3.89E-04	4.97E-04	5.61E-04	6.76E-04	8.09E-04	8.18E-04	2.06E-04	3.21E-04	3.14E-05	3.15E-06	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Mercury Compounds	1.63E-03	1.64E-03	1.66E-03	1.69E-03	1.71E-03	1.74E-03	1.82E-03	1.87E-03	4.87E-05	3.88E-05	9.91E-05	2.61E-05	1.50E-03	1.50E-03	
Washington DC	Statewide	N/A	N/A	Methylene Chloride	3.68E-01	3.87E-01	4.19E-01	5.02E-01	5.73E-01	6.20E-01	7.55E-01	1.00E+00	4.87E-03	4.18E-01	0.00E+00	0.00E+00	1.50E-01	1.50E-01	
Washington DC	Statewide	N/A	N/A	Nickel Compounds	5.66E-04	6.07E-04	6.94E-04	7.92E-04	8.38E-04	8.87E-04	1.08E-03	1.26E-03	2.22E-04	5.35E-04	7.17E-05	8.82E-06	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Perchloroethylene	2.42E-01	2.46E-01	2.65E-01	3.02E-01	3.15E-01	3.34E-01	3.85E-01	4.58E-01	2.61E-03	1.73E-01	0.00E+00	0.00E+00	1.40E-01	1.40E-01	
Washington DC	Statewide	N/A	N/A	Polychlorinated Biphenyls	3.84E-04	3.84E-04	3.84E-04	3.85E-04	3.85E-04	3.85E-04	3.85E-04	3.85E-04	1.07E-08	4.70E-06	0.00E+00	0.00E+00	3.80E-04	3.80E-04	
Washington DC	Statewide	N/A	N/A	Polycyclic Organic Matter	6.95E-02	7.35E-02	8.33E-02	9.77E-02	1.11E-01	1.27E-01	1.58E-01	1.89E-01	1.68E-05	7.36E-02	3.13E-02	6.55E-03	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	7-PAH	1.09E-03	1.14E-03	1.32E-03	1.43E-03	1.87E-03	1.65E-03	2.12E-03	2.71E-03	3.20E-07	1.62E-03	1.99E-04	4.93E-05	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Propylene Dichloride	2.91E-05	2.97E-05	3.18E-05	3.37E-05	4.20E-05	3.74E-05	5.04E-05	6.56E-05	1.90E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Quinoline	4.16E-08	4.80E-08	5.72E-08	6.66E-08	7.62E-08	8.05E-08	1.06E-07	1.41E-07	0.00E+00	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	1,1,2,2-Tetrachloroethane	2.18E-04	2.27E-04	2.39E-04	2.59E-04	2.91E-04	2.80E-04	3.59E-04	5.07E-04	1.74E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	Statewide	N/A	N/A	Trichloroethylene	1.13E-01	1.15E-01	1.22E-01	1.43E-01	1.68E-01	1.76E-01	2.34E-01	2.88E-01	4.05E-04	8.65E-02	0.00E+00	0.00E+00	8.10E-02	8.10E-02	
Washington DC	Statewide	N/A	N/A	Vinyl Chloride	6.64E-04	6.82E-04	6.98E-04	7.41E-04	8.37E-04	8.12E-04	1.03E-03	1.39E-03	4.29E-04	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Acetaldehyde	4.58E-01	5.70E-01	6.36E-01	7.37E-01	8.93E-01	8.75E-01	1.58E+00	1.94E+00	6.59E-03	8.44E-03	7.44E-01	1.34E-01	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Acrolein	1.05E-01	1.15E-01	1.26E-01	1.40E-01	1.46E-01	1.60E-01	1.86E-01	2.08E-01	6.84E-05	1.72E-02	9.80E-02	3.06E-02	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Acrylonitrile	6.73E-04	6.82E-04	7.02E-04	7.39E-04	9.71E-04	8.29E-04	1.13E-03	1.40E-03	3.14E-04	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Arsenic Compounds	1.66E-04	1.79E-04	2.11E-04	2.45E-04	2.68E-04	2.95E-04	3.83E-04	4.50E-04	9.42E-05	3.63E-05	1.06E-04	3.09E-05	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Benzene	1.35E+00	1.47E+00	1.55E+00	1.71E+00	1.97E+00	2.04E+00	2.94E+00	3.60E+00	1.33E-03	1.85E-01	1.09E+00	2.13E-01	4.80E-01	4.80E-01	
Washington DC	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	0.00E+00	
Washington DC	All Urban Counties	N/A	U	Beryllium Compounds	1.65E-05	1.77E-05	1.95E-05	2.28E-05	2.41E-05	2.64E-05	3.21E-05	3.76E-05	4.81E-06	1.80E-05	0.00E+00	1.24E-06	0.00E+00	0.00E+00	
Washington DC	All Urban Counties	N/A	U	1,3-Butadiene	5.16E-02	5.65E-02	6.77E-02	8.45E-02	1.25E-01	1.22E-01	2.70E-01	3.81E-01	0.00E+00	6.57E-05	1.06E-01	1.88E-02	0.00E+00	0.00E+00	

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**Estimated Annual Average Ambient Concentrations µg/m3 for Washington DC**

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
Washington DC	All Urban Counties	N/A	U	Cadmium Compounds	3.27E-05	3.38E-05	3.71E-05	4.18E-05	4.39E-05	4.82E-05	5.61E-05	6.36E-05	1.81E-05	2.46E-05	0.00E+00	1.25E-06	0.00E+00
Washington DC	All Urban Counties	N/A	U	Carbon Disulfide	4.87E-02	4.88E-02	4.88E-02	4.92E-02	5.13E-02	4.96E-02	5.11E-02	5.32E-02	1.14E-04	4.19E-03	0.00E+00	0.00E+00	4.70E-02
Washington DC	All Urban Counties	N/A	U	Carbon Tetrachloride	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.82E-01	8.81E-01	8.82E-01	8.82E-01	1.50E-06	1.54E-03	0.00E+00	0.00E+00	8.80E-01
Washington DC	All Urban Counties	N/A	U	Chloroform	1.35E-01	1.42E-01	1.50E-01	1.63E-01	1.71E-01	1.81E-01	2.05E-01	2.26E-01	3.35E-06	8.79E-02	0.00E+00	0.00E+00	8.30E-02
Washington DC	All Urban Counties	N/A	U	Chromium Compounds (includes Hexavalent)	1.52E-04	1.60E-04	2.51E-04	3.18E-04	3.09E-04	3.55E-04	4.25E-04	4.86E-04	1.66E-04	4.38E-05	9.68E-05	3.02E-06	0.00E+00
Washington DC	All Urban Counties	N/A	U	Chromium VI	4.52E-05	4.76E-05	5.69E-05	6.89E-05	7.44E-05	7.95E-05	1.11E-04	1.39E-04	1.84E-05	1.62E-05	3.87E-05	1.03E-06	0.00E+00
Washington DC	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
Washington DC	All Urban Counties	N/A	U	1,4-Dichlorobenzene	5.38E-02	6.10E-02	7.20E-02	8.80E-02	9.66E-02	1.14E-01	1.44E-01	1.73E-01	2.89E-05	9.66E-02	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	1,3-Dichloropropene	1.04E-01	1.18E-01	1.40E-01	1.73E-01	1.91E-01	2.26E-01	2.85E-01	3.48E-01	0.00E+00	1.91E-01	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Ethylene Dibromide	7.71E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	1.76E-07	1.75E-05	0.00E+00	0.00E+00	7.70E-03
Washington DC	All Urban Counties	N/A	U	Ethylene Dichloride	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	4.81E-05	4.48E-05	0.00E+00	0.00E+00	6.10E-02
Washington DC	All Urban Counties	N/A	U	Ethylene Oxide	4.59E-03	4.71E-03	5.02E-03	5.79E-03	6.71E-03	6.87E-03	8.05E-03	1.05E-02	0.00E+00	6.71E-03	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Formaldehyde	8.65E-01	9.78E-01	1.07E+00	1.20E+00	1.38E+00	1.42E+00	2.17E+00	2.62E+00	8.63E-03	2.11E-02	8.30E-01	2.71E-01	2.50E-01
Washington DC	All Urban Counties	N/A	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.33E-05	9.33E-05	9.33E-05	8.67E-08	4.51E-08	0.00E+00	0.00E+00	9.30E-05
Washington DC	All Urban Counties	N/A	U	Hexachlorobutadiene	1.84E-03	1.84E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.86E-03	1.86E-03	0.00E+00	5.17E-05	0.00E+00	0.00E+00	1.80E-03
Washington DC	All Urban Counties	N/A	U	Hexamethylene Diisocyanate	3.56E-05	3.79E-05	4.18E-05	4.58E-05	4.67E-05	5.09E-05	5.81E-05	6.24E-05	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Hydrazine	3.31E-09	3.97E-09	5.96E-09	8.21E-09	1.22E-08	1.26E-08	1.98E-08	3.44E-08	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Lead Compounds	1.37E-03	1.42E-03	1.59E-03	1.74E-03	1.89E-03	2.07E-03	2.48E-03	2.93E-03	1.45E-04	3.37E-04	0.00E+00	1.41E-03	0.00E+00
Washington DC	All Urban Counties	N/A	U	Manganese Compounds	3.15E-04	3.52E-04	3.89E-04	4.97E-04	5.61E-04	6.76E-04	8.09E-04	8.18E-04	2.06E-04	3.21E-04	3.14E-05	3.15E-06	0.00E+00
Washington DC	All Urban Counties	N/A	U	Mercury Compounds	1.63E-03	1.64E-03	1.66E-03	1.69E-03	1.71E-03	1.74E-03	1.82E-03	1.87E-03	4.87E-05	3.88E-05	9.91E-05	2.61E-05	1.50E-03
Washington DC	All Urban Counties	N/A	U	Methylene Chloride	3.68E-01	3.87E-01	4.19E-01	5.02E-01	5.73E-01	6.20E-01	7.55E-01	1.00E+00	4.87E-03	4.18E-01	0.00E+00	0.00E+00	1.50E-01
Washington DC	All Urban Counties	N/A	U	Nickel Compounds	5.66E-04	6.07E-04	6.94E-04	7.92E-04	8.38E-04	8.87E-04	1.08E-03	1.26E-03	2.22E-04	5.35E-04	7.17E-05	8.82E-06	0.00E+00
Washington DC	All Urban Counties	N/A	U	Perchloroethylene	2.42E-01	2.46E-01	2.65E-01	3.02E-01	3.15E-01	3.34E-01	3.85E-01	4.58E-01	2.61E-03	1.73E-01	0.00E+00	0.00E+00	1.40E-01
Washington DC	All Urban Counties	N/A	U	Polychlorinated Biphenyls	3.84E-04	3.84E-04	3.84E-04	3.85E-04	3.85E-04	3.85E-04	3.85E-04	3.85E-04	1.07E-08	4.70E-06	0.00E+00	0.00E+00	3.80E-04
Washington DC	All Urban Counties	N/A	U	Polycyclic Organic Matter	6.95E-02	7.35E-02	8.33E-02	9.77E-02	1.11E-01	1.27E-01	1.58E-01	1.89E-01	1.68E-05	7.36E-02	3.13E-02	6.55E-03	0.00E+00
Washington DC	All Urban Counties	N/A	U	7-PAH	1.09E-03	1.14E-03	1.32E-03	1.43E-03	1.87E-03	1.65E-03	2.12E-03	2.71E-03	3.20E-07	1.62E-03	1.99E-04	4.93E-05	0.00E+00
Washington DC	All Urban Counties	N/A	U	Propylene Dichloride	2.91E-05	2.97E-05	3.18E-05	3.37E-05	4.20E-05	3.74E-05	5.04E-05	6.56E-05	1.90E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Quinoline	4.16E-08	4.80E-08	5.72E-08	6.66E-08	7.62E-08	8.05E-08	1.06E-07	1.41E-07	0.00E+00	7.62E-08	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	2.18E-04	2.27E-04	2.39E-04	2.59E-04	2.91E-04	2.80E-04	3.59E-04	5.07E-04	1.74E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00
Washington DC	All Urban Counties	N/A	U	Trichloroethylene	1.13E-01	1.15E-01	1.22E-01	1.43E-01	1.68E-01	1.76E-01	2.34E-01	2.88E-01	4.05E-04	8.65E-02	0.00E+00	0.00E+00	8.10E-02
Washington DC	All Urban Counties	N/A	U	Vinyl Chloride	6.64E-04	6.82E-04	6.98E-04	7.41E-04	8.37E-04	8.12E-04	1.03E-03	1.39E-03	4.29E-04	4.08E-04	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Acetaldehyde	4.58E-01	5.70E-01	6.36E-01	7.37E-01	8.93E-01	8.75E-01	1.58E+00	1.94E+00	6.59E-03	8.44E-03	7.44E-01	1.34E-01	0.00E+00
Washington DC	District of Columbia	11001	U	Acrolein	1.05E-01	1.15E-01	1.26E-01	1.40E-01	1.46E-01	1.60E-01	1.86E-01	2.08E-01	6.84E-05	1.72E-02	9.80E-02	3.06E-02	0.00E+00
Washington DC	District of Columbia	11001	U	Acrylonitrile	6.73E-04	6.82E-04	7.02E-04	7.39E-04	9.71E-04	8.29E-04	1.13E-03	1.40E-03	3.14E-04	6.57E-04	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Arsenic Compounds	1.66E-04	1.79E-04	2.11E-04	2.45E-04	2.68E-04	2.95E-04	3.83E-04	4.50E-04	9.42E-05	3.63E-05	1.06E-04	3.09E-05	0.00E+00
Washington DC	District of Columbia	11001	U	Benzene	1.35E+00	1.47E+00	1.55E+00	1.71E+00	1.97E+00	2.04E+00	2.94E+00	3.60E+00	1.33E-03	1.85E-01	1.09E+00	2.13E-01	4.80E-01
Washington DC	District of Columbia	11001	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
Washington DC	District of Columbia	11001	U	Beryllium Compounds	1.65E-05	1.77E-05	1.95E-05	2.28E-05	2.41E-05	2.64E-05	3.21E-05	3.76E-05	4.81E-06	1.80E-05	0.00E+00	1.24E-06	0.00E+00
Washington DC	District of Columbia	11001	U	1,3-Butadiene	5.16E-02	5.65E-02	6.77E-02	8.45E-02	1.25E-01	1.22E-01	2.70E-01	3.81E-01	0.00E+00	6.57E-05	1.06E-01	1.88E-02	0.00E+00
Washington DC	District of Columbia	11001	U	Cadmium Compounds	3.27E-05	3.38E-05	3.71E-05	4.18E-05	4.39E-05	4.82E-05	5.61E-05	6.36E-05	1.81E-05	2.46E-05	0.00E+00	1.25E-06	0.00E+00
Washington DC	District of Columbia	11001	U	Carbon Disulfide	4.87E-02	4.88E-02	4.88E-02	4.92E-02	5.13E-02	4.96E-02	5.11E-02	5.32E-02	1.14E-04	4.19E-03	0.00E+00	0.00E+00	4.70E-02
Washington DC	District of Columbia	11001	U	Carbon Tetrachloride	8.81E-01	8.81E-01	8.81E-01	8.81E-01	8.82E-01	8.81E-01	8.82E-01	8.82E-01	1.50E-06	1.54E-03	0.00E+00	0.00E+00	8.80E-01
Washington DC	District of Columbia	11001	U	Chloroform	1.35E-01	1.42E-01	1.50E-01	1.63E-01	1.71E-01	1.81E-01	2.05E-01	2.26E-01	3.35E-06	8.79E-02	0.00E+00	0.00E+00	8.30E-02
Washington DC	District of Columbia	11001	U	Chromium Compounds (includes Hexavalent)	1.52E-04	1.60E-04	2.51E-04	3.18E-04	3.09E-04	3.55E-04	4.25E-04	4.86E-04	1.66E-04	4.38E-05	9.68E-05	3.02E-06	0.00E+00
Washington DC	District of Columbia	11001	U	Chromium VI	4.52E-05	4.76E-05	5.69E-05	6.89E-05	7.44E-05	7.95E-05	1.11E-04	1.39E-04	1.84E-05	1.62E-05	3.87E-05	1.03E-06	0.00E+00
Washington DC	District of Columbia	11001	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
Washington DC	District of Columbia	11001	U	1,4-Dichlorobenzene	5.38E-02	6.10E-02	7.20E-02	8.80E-02	9.66E-02	1.14E-01	1.44E-01	1.73E-01	2.89E-05	9.66E-02	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	1,3-Dichloropropene	1.04E-01	1.18E-01	1.40E-01	1.73E-01	1.91E-01	2.26E-01	2.85E-01	3.48E-01	0.00E+00	1.91E-01	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Ethylene Dibromide	7.71E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	7.72E-03	1.76E-07	1.75E-05	0.00E+00	0.00E+00	7.70E-03
Washington DC	District of Columbia	11001	U	Ethylene Dichloride	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	6.11E-02	4.81E-05	4.48E-05	0.00E+00	0.00E+00	6.10E-02
Washington DC	District of Columbia	11001	U	Ethylene Oxide	4.59E-03	4.71E-03	5.02E-03	5.79E-03	6.71E-03	6.87E-03	8.05E-03	1.05E-02	0.00E+00	6.71E-03	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Formaldehyde	8.65E-01	9.78E-01	1.07E+00	1.20E+00	1.38E+00	1.42E+00	2.17E+00	2.62E+00	8.63E-03	2.11E-02	8.30E-01	2.71E-01	2.50E-01
Washington DC	District of Columbia	11001	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.33E-05	9.33E-05	9.33E-05	8.67E-08	4.51E-08	0.00E+00	0.00E+00	9.30E-05
Washington DC	District of Columbia	11001	U	Hexachlorobutadiene	1.84E-03	1.84E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.86E-03	1.86E-03	0.00E+00	5.17E-05	0.00E+00	0.00E+00	1.80E-03
Washington DC	District of Columbia	11001	U	Hexamethylene Diisocyanate	3.56E-05	3.79E-05	4.18E-05	4.58E-05	4.67E-05	5.09E-05	5.81E-05	6.24E-05	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Hydrazine	3.31E-09	3.97E-09	5.96E-09	8.21E-09	1.22E-08	1.26E-08	1.98E-08	3.44E-08	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00
Washington DC	District of Columbia	11001	U	Lead Compounds	1.37E-03	1.42E-03	1.59E-03	1.74E-03	1.89E-03	2.07E-03	2.48E-03	2.93E-03	1.45E-04	3.37			

DRAFT FOR REVIEW ONLY  
 Estimated Annual Average Ambient Concentrations µg/m3 for Washington DC

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	
Washington DC	District of Columbia	11001	U	7-PAH	1.09E-03	1.14E-03	1.32E-03	1.43E-03	1.87E-03	1.65E-03	2.12E-03	2.71E-03	3.20E-07	1.62E-03	1.99E-04	4.93E-05	0.00E+00	
Washington DC	District of Columbia	11001	U	Propylene Dichloride	2.91E-05	2.97E-05	3.18E-05	3.37E-05	4.20E-05	3.74E-05	5.04E-05	6.56E-05	1.90E-05	2.30E-05	0.00E+00	0.00E+00	0.00E+00	
Washington DC	District of Columbia	11001	U	Quinoline	4.16E-08	4.80E-08	5.72E-08	6.66E-08	7.62E-08	8.05E-08	1.06E-07	1.41E-07	0.00E+00	7.62E-08	0.00E+00	0.00E+00	0.00E+00	
Washington DC	District of Columbia	11001	U	1,1,2,2-Tetrachloroethane	2.18E-04	2.27E-04	2.39E-04	2.59E-04	2.91E-04	2.80E-04	3.59E-04	5.07E-04	1.74E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00	
Washington DC	District of Columbia	11001	U	Trichloroethylene	1.13E-01	1.15E-01	1.22E-01	1.43E-01	1.68E-01	1.76E-01	2.34E-01	2.88E-01	4.05E-04	8.65E-02	0.00E+00	0.00E+00	8.10E-02	
Washington DC	District of Columbia	11001	U	Vinyl Chloride	6.64E-04	6.82E-04	6.98E-04	7.41E-04	8.37E-04	8.12E-04	1.03E-03	1.39E-03	4.29E-04	4.08E-04	0.00E+00	0.00E+00	0.00E+00	