

US EPA ARCHIVE DOCUMENT

1999 DRAFT Modeled Ambient Concentrations for Hawaii: 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](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 Hawaii

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		
Hawaii	Statewide	N/A	N/A	Acetaldehyde	3.82E-02	6.12E-02	1.12E-01	2.25E-01	3.40E-01	4.74E-01	7.71E-01	1.04E+00	1.57E-05	4.82E-02	2.17E-01	7.53E-02	0.00E+00		
Hawaii	Statewide	N/A	N/A	Acrolein	6.94E-03	9.72E-03	1.92E-02	3.41E-02	3.70E-02	5.33E-02	6.47E-02	7.12E-02	1.24E-05	1.56E-02	1.42E-02	7.15E-03	0.00E+00		
Hawaii	Statewide	N/A	N/A	Acrylonitrile	1.73E-06	4.71E-06	2.36E-05	5.49E-05	2.57E-04	1.21E-04	1.87E-04	4.30E-04	1.29E-04	1.28E-04	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	Arsenic Compounds	1.88E-06	3.75E-06	1.19E-05	2.97E-05	4.94E-05	7.41E-05	1.22E-04	1.59E-04	4.44E-06	4.01E-06	2.88E-05	1.22E-05	0.00E+00		
Hawaii	Statewide	N/A	N/A	Benzene	5.12E-01	5.32E-01	5.79E-01	6.92E-01	8.29E-01	9.39E-01	1.27E+00	1.60E+00	3.69E-03	3.15E-02	2.40E-01	7.31E-02	4.80E-01		
Hawaii	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		
Hawaii	Statewide	N/A	N/A	Beryllium Compounds	3.07E-08	6.48E-08	1.91E-07	5.90E-07	1.40E-06	1.46E-06	3.10E-06	3.85E-06	1.35E-07	1.23E-06	0.00E+00	3.39E-08	0.00E+00		
Hawaii	Statewide	N/A	N/A	1,3-Butadiene	3.98E-03	6.16E-03	1.13E-02	2.10E-02	3.95E-02	5.03E-02	9.70E-02	1.43E-01	1.65E-05	3.84E-03	2.71E-02	8.52E-03	0.00E+00		
Hawaii	Statewide	N/A	N/A	Cadmium Compounds	9.73E-08	2.16E-07	6.72E-07	1.63E-06	4.08E-06	4.37E-06	9.97E-06	1.43E-05	1.61E-06	1.99E-06	0.00E+00	4.74E-07	0.00E+00		
Hawaii	Statewide	N/A	N/A	Carbon Disulfide	4.70E-02	4.70E-02	4.71E-02	4.76E-02	4.80E-02	4.83E-02	4.88E-02	5.08E-02	2.42E-05	1.03E-03	0.00E+00	0.00E+00	4.70E-02		
Hawaii	Statewide	N/A	N/A	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	2.35E-07	2.60E-04	0.00E+00	0.00E+00	8.80E-01		
Hawaii	Statewide	N/A	N/A	Chloroform	8.33E-02	8.39E-02	8.81E-02	9.74E-02	1.02E-01	1.10E-01	1.28E-01	1.45E-01	1.37E-06	1.94E-02	0.00E+00	0.00E+00	8.30E-02		
Hawaii	Statewide	N/A	N/A	Chromium Compounds (includes Hexavalent)	1.11E-06	2.33E-06	6.59E-06	1.62E-05	3.26E-05	4.53E-05	8.35E-05	1.14E-04	3.56E-06	2.80E-06	2.37E-05	2.49E-06	0.00E+00		
Hawaii	Statewide	N/A	N/A	Chromium VI	4.45E-07	8.69E-07	2.50E-06	6.58E-06	1.26E-05	1.70E-05	3.21E-05	4.57E-05	9.06E-07	1.32E-06	9.50E-06	8.46E-07	0.00E+00		
Hawaii	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		
Hawaii	Statewide	N/A	N/A	1,4-Dichlorobenzene	5.56E-04	1.78E-03	8.62E-03	2.21E-02	3.13E-02	4.23E-02	7.53E-02	9.85E-02	1.18E-05	3.13E-02	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	1,3-Dichloropropene	1.07E-03	3.59E-03	1.76E-02	4.47E-02	6.38E-02	8.65E-02	1.54E-01	2.01E-01	0.00E+00	6.38E-02	0.00E+00	0.00E+00	0.00E+00		
Hawaii	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	7.70E-03	7.19E-08	6.45E-08	0.00E+00	0.00E+00	7.70E-03		
Hawaii	Statewide	N/A	N/A	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	1.55E-05	8.83E-06	0.00E+00	0.00E+00	6.10E-02		
Hawaii	Statewide	N/A	N/A	Ethylene Oxide	5.35E-06	1.39E-05	5.10E-05	1.80E-04	1.30E-03	5.04E-04	1.70E-03	4.79E-03	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	Formaldehyde	2.97E-01	3.27E-01	3.90E-01	5.23E-01	6.44E-01	7.86E-01	1.15E+00	1.31E+00	1.66E-04	6.55E-02	2.00E-01	1.28E-01	2.50E-01		
Hawaii	Statewide	N/A	N/A	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.31E-05	0.00E+00	3.86E-08	0.00E+00	0.00E+00	9.30E-05		
Hawaii	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	1.40E-07	0.00E+00	0.00E+00	1.80E-03		
Hawaii	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		
Hawaii	Statewide	N/A	N/A	Hydrazine	7.67E-12	2.02E-11	2.52E-10	1.56E-09	1.57E-08	7.39E-09	3.57E-08	4.96E-08	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	Lead Compounds	4.85E-06	1.18E-05	3.73E-05	1.29E-04	3.42E-04	3.75E-04	7.80E-04	1.27E-03	5.76E-06	1.06E-04	0.00E+00	2.30E-04	0.00E+00		
Hawaii	Statewide	N/A	N/A	Manganese Compounds	1.23E-06	2.07E-06	5.89E-06	1.56E-05	3.60E-05	5.40E-05	9.63E-05	1.19E-04	1.06E-05	1.26E-05	7.85E-06	4.92E-06	0.00E+00		
Hawaii	Statewide	N/A	N/A	Mercury Compounds	1.50E-03	1.50E-03	1.51E-03	1.53E-03	1.55E-03	1.57E-03	1.63E-03	1.65E-03	4.86E-07	1.30E-05	2.86E-05	1.10E-05	1.50E-03		
Hawaii	Statewide	N/A	N/A	Methylene Chloride	1.52E-01	1.54E-01	1.66E-01	1.91E-01	2.25E-01	2.36E-01	3.10E-01	3.98E-01	4.64E-04	7.49E-02	0.00E+00	0.00E+00	1.50E-01		
Hawaii	Statewide	N/A	N/A	Nickel Compounds	7.69E-06	1.82E-05	6.45E-05	2.06E-04	5.79E-04	5.24E-04	1.69E-03	2.25E-03	2.72E-04	1.90E-04	1.77E-05	9.90E-05	0.00E+00		
Hawaii	Statewide	N/A	N/A	Perchloroethylene	1.41E-01	1.42E-01	1.50E-01	1.69E-01	1.88E-01	2.03E-01	2.46E-01	2.90E-01	2.40E-04	4.73E-02	0.00E+00	0.00E+00	1.40E-01		
Hawaii	Statewide	N/A	N/A	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.84E-04	3.80E-04	3.88E-04	3.95E-04	6.27E-10	3.89E-06	0.00E+00	0.00E+00	3.80E-04		
Hawaii	Statewide	N/A	N/A	Polycyclic Organic Matter	1.90E-03	3.16E-03	9.98E-03	2.21E-02	2.88E-02	4.13E-02	6.61E-02	8.52E-02	3.82E-04	1.97E-02	6.56E-03	2.24E-03	0.00E+00		
Hawaii	Statewide	N/A	N/A	7-PAH	1.10E-04	1.61E-04	2.77E-04	4.99E-04	5.34E-04	7.20E-04	1.02E-03	1.20E-03	2.76E-07	4.68E-04	4.06E-05	2.57E-05	0.00E+00		
Hawaii	Statewide	N/A	N/A	Propylene Dichloride	6.39E-08	1.82E-07	8.72E-07	2.30E-06	1.35E-05	4.61E-06	9.03E-06	1.75E-05	7.78E-06	5.68E-06	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	Quinoline	1.13E-10	3.57E-10	2.21E-09	1.08E-08	4.66E-08	3.31E-08	1.06E-07	1.46E-07	0.00E+00	4.66E-08	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	1,1,2,2-Tetrachloroethane	1.16E-08	4.97E-08	2.45E-07	4.43E-06	9.87E-05	1.15E-05	2.18E-05	4.83E-05	7.13E-05	2.74E-05	0.00E+00	0.00E+00	0.00E+00		
Hawaii	Statewide	N/A	N/A	Trichloroethylene	8.11E-02	8.13E-02	8.23E-02	8.44E-02	9.52E-02	9.02E-02	1.09E-01	1.30E-01	1.42E-04	1.41E-02	0.00E+00	0.00E+00	8.10E-02		
Hawaii	Statewide	N/A	N/A	Vinyl Chloride	7.77E-08	3.57E-07	1.39E-06	1.29E-05	2.45E-04	2.93E-05	6.53E-05	1.19E-04	1.76E-04	6.92E-05	0.00E+00	0.00E+00	0.00E+00		
Hawaii	All Urban Counties	N/A	U	Acetaldehyde	5.83E-02	9.09E-02	1.53E-01	2.91E-01	4.03E-01	5.51E-01	9.18E-01	1.11E+00	2.07E-05	4.29E-02	2.69E-01	9.09E-02	0.00E+00		
Hawaii	All Urban Counties	N/A	U	Acrolein	9.18E-03	1.13E-02	2.34E-02	3.90E-02	4.10E-02	5.66E-02	6.67E-02	7.77E-02	1.64E-05	1.52E-02	1.77E-02	8.12E-03	0.00E+00		
Hawaii	All Urban Counties	N/A	U	Acrylonitrile	7.57E-06	1.90E-05	3.36E-05	8.76E-05	2.70E-04	1.25E-04	1.91E-04	4.38E-04	1.69E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00		
Hawaii	All Urban Counties	N/A	U	Arsenic Compounds	5.40E-06	1.02E-05	1.89E-05	4.63E-05	6.13E-05	8.71E-05	1.37E-04	1.66E-04	5.85E-06	4.67E-06	3.56E-05	1.52E-05	0.00E+00		
Hawaii	All Urban Counties	N/A	U	Benzene	5.48E-01	5.75E-01	6.31E-01	7.80E-01	9.02E-01	1.04E+00	1.44E+00	1.68E+00	4.86E-03	2.86E-02	3.01E-01	8.83E-02	4.80E-01		
Hawaii	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		
Hawaii	All Urban Counties	N/A	U	Beryllium Compounds	9.29E-08	1.45E-07	3.53E-07	7.61E-07	1.72E-06	1.79E-06	3.32E-06	5.16E-06	1.78E-07	1.50E-06	0.00E+00	4.15E-08	0.00E+00		
Hawaii	All Urban Counties	N/A	U	1,3-Butadiene	6.85E-03	8.30E-03	1.40E-02	2.78E-02	4.73E-02	6.00E-02	1.17E-01	1.51E-01	2.18E-05	3.27E-03	3.39E-02	1.02E-02	0.00E+00		

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Estimated Annual Average Ambient Concentrations µg/m3 for Hawaii

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	
Hawaii	All Urban Counties	N/A	U	Cadmium Compounds	3.16E-07	4.71E-07	1.05E-06	2.28E-06	5.06E-06	6.13E-06	1.22E-05	1.45E-05	2.12E-06	2.36E-06	0.00E+00	5.80E-07	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Carbon Disulfide	4.70E-02	4.71E-02	4.74E-02	4.79E-02	4.83E-02	4.84E-02	4.91E-02	5.19E-02	3.19E-05	1.27E-03	0.00E+00	0.00E+00	4.70E-02	
Hawaii	All Urban Counties	N/A	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	8.80E-01	8.80E-01	3.10E-07	3.24E-04	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Chloroform	8.52E-02	8.91E-02	9.49E-02	1.02E-01	1.08E-01	1.15E-01	1.33E-01	1.47E-01	1.81E-06	2.46E-02	0.00E+00	0.00E+00	8.30E-02	
Hawaii	All Urban Counties	N/A	U	Chromium Compounds (includes Hexavalent)	3.23E-06	6.06E-06	1.05E-05	2.86E-05	4.07E-05	5.51E-05	1.01E-04	1.26E-04	4.69E-06	3.21E-06	2.98E-05	3.05E-06	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Chromium VI	1.19E-06	2.16E-06	3.88E-06	1.06E-05	1.57E-05	2.06E-05	3.94E-05	4.78E-05	1.19E-06	1.55E-06	1.19E-05	1.04E-06	0.00E+00	
Hawaii	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	
Hawaii	All Urban Counties	N/A	U	1,4-Dichlorobenzene	3.29E-03	9.25E-03	1.78E-02	2.98E-02	3.92E-02	5.09E-02	8.29E-02	1.06E-01	1.56E-05	3.92E-02	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	1,3-Dichloropropene	6.60E-03	1.85E-02	3.62E-02	6.07E-02	7.98E-02	1.04E-01	1.70E-01	2.16E-01	0.00E+00	7.98E-02	0.00E+00	0.00E+00	0.00E+00	
Hawaii	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	7.70E-03	9.48E-08	4.83E-08	0.00E+00	0.00E+00	7.70E-03	
Hawaii	All Urban Counties	N/A	U	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	2.05E-05	3.82E-06	0.00E+00	0.00E+00	6.10E-02	
Hawaii	All Urban Counties	N/A	U	Ethylene Oxide	1.87E-05	4.07E-05	1.07E-04	2.47E-04	1.67E-03	7.18E-04	2.78E-03	7.36E-03	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Formaldehyde	3.20E-01	3.66E-01	4.34E-01	5.90E-01	7.11E-01	9.10E-01	1.25E+00	1.41E+00	2.19E-04	5.88E-02	2.49E-01	1.53E-01	2.50E-01	
Hawaii	All Urban Counties	N/A	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	3.09E-09	0.00E+00	0.00E+00	9.30E-05	
Hawaii	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	1.73E-07	0.00E+00	0.00E+00	1.80E-03	
Hawaii	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	
Hawaii	All Urban Counties	N/A	U	Hydrazine	1.62E-11	4.91E-11	6.21E-10	2.20E-09	2.00E-08	8.66E-09	4.22E-08	5.91E-08	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Lead Compounds	1.48E-05	2.67E-05	5.81E-05	1.66E-04	3.80E-04	3.81E-04	7.88E-04	1.27E-03	7.59E-06	1.33E-04	0.00E+00	2.40E-04	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Manganese Compounds	3.11E-06	4.46E-06	8.78E-06	2.06E-05	3.91E-05	5.63E-05	9.50E-05	1.13E-04	1.40E-05	9.18E-06	9.86E-06	6.04E-06	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Mercury Compounds	1.50E-03	1.51E-03	1.52E-03	1.54E-03	1.57E-03	1.60E-03	1.64E-03	1.68E-03	6.41E-07	1.64E-05	3.51E-05	1.37E-05	1.50E-03	
Hawaii	All Urban Counties	N/A	U	Methylene Chloride	1.55E-01	1.65E-01	1.77E-01	2.06E-01	2.42E-01	2.51E-01	3.34E-01	4.20E-01	6.12E-04	9.17E-02	0.00E+00	0.00E+00	1.50E-01	
Hawaii	All Urban Counties	N/A	U	Nickel Compounds	2.62E-05	4.84E-05	1.22E-04	2.82E-04	7.30E-04	7.81E-04	1.90E-03	2.41E-03	3.58E-04	2.27E-04	2.22E-05	1.23E-04	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Perchloroethylene	1.45E-01	1.53E-01	1.62E-01	1.83E-01	2.00E-01	2.21E-01	2.58E-01	3.20E-01	3.17E-04	5.99E-02	0.00E+00	0.00E+00	1.40E-01	
Hawaii	All Urban Counties	N/A	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	8.27E-10	0.00E+00	0.00E+00	0.00E+00	3.80E-04	
Hawaii	All Urban Counties	N/A	U	Polycyclic Organic Matter	4.24E-03	9.50E-03	1.64E-02	2.86E-02	3.53E-02	4.66E-02	7.49E-02	9.09E-02	5.04E-04	2.42E-02	8.22E-03	2.41E-03	0.00E+00	
Hawaii	All Urban Counties	N/A	U	7-PAH	8.60E-05	1.48E-04	2.65E-04	5.02E-04	4.89E-04	6.50E-04	8.31E-04	9.84E-04	3.63E-07	4.09E-04	5.05E-05	2.99E-05	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Propylene Dichloride	3.19E-07	7.17E-07	1.23E-06	3.65E-06	1.37E-05	4.71E-06	9.03E-06	1.72E-05	1.03E-05	3.49E-06	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Quinoline	7.25E-10	1.14E-09	6.17E-09	1.44E-08	5.93E-08	4.03E-08	1.24E-07	1.74E-07	0.00E+00	5.93E-08	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	8.93E-08	1.85E-07	3.57E-07	6.49E-06	9.52E-05	1.16E-05	1.83E-05	4.22E-05	9.40E-05	1.28E-06	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Urban Counties	N/A	U	Trichloroethylene	8.14E-02	8.20E-02	8.32E-02	8.58E-02	9.90E-02	9.53E-02	1.20E-01	1.52E-01	1.87E-04	1.78E-02	0.00E+00	0.00E+00	8.10E-02	
Hawaii	All Urban Counties	N/A	U	Vinyl Chloride	4.02E-07	7.94E-07	2.28E-06	1.74E-05	2.37E-04	3.09E-05	5.51E-05	1.09E-04	2.31E-04	5.41E-06	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Acetaldehyde	2.49E-02	2.71E-02	6.57E-02	1.16E-01	1.42E-01	1.81E-01	3.30E-01	4.04E-01	0.00E+00	6.49E-02	5.11E-02	2.62E-02	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Acrolein	5.32E-03	6.48E-03	1.26E-02	2.01E-02	2.42E-02	3.36E-02	4.35E-02	5.57E-02	0.00E+00	1.67E-02	3.33E-03	4.12E-03	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Acrylonitrile	3.69E-07	8.69E-07	4.11E-06	1.25E-05	2.17E-04	4.42E-05	1.70E-04	4.30E-04	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Arsenic Compounds	9.74E-07	1.22E-06	3.07E-06	6.13E-06	1.19E-05	1.54E-05	3.39E-05	4.28E-05	0.00E+00	1.96E-06	7.30E-06	2.69E-06	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Benzene	5.02E-01	5.06E-01	5.26E-01	5.59E-01	5.96E-01	6.14E-01	7.74E-01	9.39E-01	0.00E+00	4.07E-02	5.05E-02	2.51E-02	4.80E-01	
Hawaii	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	
Hawaii	All Rural Counties	N/A	R	Beryllium Compounds	1.03E-08	1.98E-08	4.45E-08	1.46E-07	3.91E-07	4.39E-07	1.21E-06	1.61E-06	0.00E+00	3.81E-07	0.00E+00	1.02E-08	0.00E+00	
Hawaii	All Rural Counties	N/A	R	1,3-Butadiene	2.39E-03	3.00E-03	5.62E-03	1.17E-02	1.47E-02	1.68E-02	3.74E-02	4.85E-02	0.00E+00	5.61E-03	5.73E-03	3.38E-03	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Cadmium Compounds	3.50E-08	5.56E-08	1.97E-07	3.97E-07	9.73E-07	1.33E-06	2.21E-06	4.49E-06	0.00E+00	8.30E-07	0.00E+00	1.43E-07	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Carbon Disulfide	4.70E-02	4.70E-02	4.70E-02	4.71E-02	4.73E-02	4.72E-02	4.79E-02	4.76E-02	0.00E+00	2.58E-04	0.00E+00	0.00E+00	4.70E-02	
Hawaii	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	8.80E-01	0.00E+00	6.10E-05	0.00E+00	8.80E-01	
Hawaii	All Rural Counties	N/A	R	Chloroform	8.31E-02	8.32E-02	8.35E-02	8.46E-02	8.61E-02	8.69E-02	9.32E-02	9.63E-02	0.00E+00	3.14E-03	0.00E+00	0.00E+00	8.30E-02	
Hawaii	All Rural Counties	N/A	R	Chromium Compounds (includes Hexavalent)	5.30E-07	7.34E-07	1.66E-06	3.37E-06	6.87E-06	9.51E-06	1.97E-05	2.43E-05	0.00E+00	1.49E-06	4.65E-06	7.32E-07	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Chromium VI	2.11E-07	2.89E-07	6.12E-07	1.38E-06	2.69E-06	3.25E-06	7.67E-06	9.80E-06	0.00E+00	5.77E-07	1.86E-06	2.49E-07	0.00E+00	
Hawaii	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	
Hawaii	All Rural Counties	N/A	R	1,4-Dichlorobenzene	1.78E-04	3.80E-04	7.43E-04	3.11E-03	6.56E-03	8.62E-03	2.32E-02	2.81E-02	0.00E+00	6.56E-03	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Rural Counties	N/A	R	1,3-Dichloropropene	3.56E-04	7.48E-04	1.49E-03	6.32E-03	1.33E-02	1.76E-02	4.75E-02	5.70E-02	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	
Hawaii	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	0.00E+00	1.16E-07	0.00E+00	0.00E+00	7.70E-03	
Hawaii	All Rural Counties	N/A	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	0.00E+00	2.46E-05	0.00E+00	0.00E+00	6.10E-02	
Hawaii	All Rural Counties	N/A	R	Ethylene Oxide	6.08E-07	1.66E-06	6.39E-06	2.32E-05	1.42E-04	8.18E-05	3.58E-04	4.22E-04	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Formaldehyde	2.84E-01	2.86E-01	3.35E-01	3.92E-01	4.32E-01	4.85E-01	6.59E-01	7.25E-01	0.00E+00	8.64E-02	4.63E-02	4.93E-02	2.50E-01	
Hawaii	All Rural Counties	N/A	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.32E-05	9.31E-05	9.34E-05	9.39E-05	0.00E+00	1.50E-07	0.00E+00	0.00E+00	9.30E-05	
Hawaii	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	3.47E-08	0.00E+00	0.00E+00	1.80E-03	
Hawaii	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	
Hawaii	All Rural Counties	N/A	R	Hydrazine	2.06E-14	5.54E-13	4.46E-11	2.19E-10	2.22E-09	1.57E-09	1.09E-08	1.31E-08	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Lead Compounds	2.28E-06	2.91E-06	8.89E-06	4.16E-05	2.22E-04	2.25E-04	6.58E-04	1.35E-03	0.00E+00	2.14E-05	0.00E+00	2.00E-04	0.00E+00	
Hawaii	All Rural Counties	N/A	R	Manganese Compounds	3.44E-07	4.81E-07	1.75E-06	3.61E-06	2.64E-05	1.68E-05	1.18E-04	1.33E-04	0.00E+00	2.34E-05				

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

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
Hawaii	All Rural Counties	N/A	R	7-PAH	1.96E-04	2.24E-04	3.19E-04	4.83E-04	6.76E-04	1.10E-03	1.36E-03	1.61E-03	0.00E+00	6.54E-04	9.71E-06	1.25E-05	0.00E+00
Hawaii	All Rural Counties	N/A	R	Propylene Dichloride	1.27E-08	4.63E-08	1.61E-07	5.09E-07	1.26E-05	1.72E-06	9.72E-06	1.95E-05	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00
Hawaii	All Rural Counties	N/A	R	Quinoline	5.09E-12	3.69E-11	2.14E-10	1.32E-09	6.91E-09	6.80E-09	3.15E-08	3.69E-08	0.00E+00	6.91E-09	0.00E+00	0.00E+00	0.00E+00
Hawaii	All Rural Counties	N/A	R	1,1,2,2-Tetrachloroethane	1.69E-09	8.05E-09	2.45E-08	1.49E-06	1.09E-04	6.88E-06	7.57E-05	1.49E-04	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	All Rural Counties	N/A	R	Trichloroethylene	8.10E-02	8.11E-02	8.13E-02	8.17E-02	8.35E-02	8.31E-02	8.74E-02	8.85E-02	0.00E+00	2.47E-03	0.00E+00	0.00E+00	8.10E-02
Hawaii	All Rural Counties	N/A	R	Vinyl Chloride	1.28E-08	3.54E-08	2.79E-07	3.81E-06	2.70E-04	1.87E-04	3.68E-04	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Acetaldehyde	6.91E-02	7.66E-02	1.15E-01	1.64E-01	2.07E-01	2.78E-01	4.10E-01	4.51E-01	0.00E+00	1.11E-01	7.50E-02	2.08E-02	0.00E+00
Hawaii	Hawaii County	15001	R	Acrolein	1.58E-02	1.80E-02	3.01E-02	3.62E-02	3.66E-02	4.33E-02	5.91E-02	6.22E-02	0.00E+00	2.91E-02	4.91E-03	2.66E-03	0.00E+00
Hawaii	Hawaii County	15001	R	Acrylonitrile	1.32E-06	1.41E-06	4.64E-06	1.73E-05	4.51E-04	8.48E-05	3.14E-04	4.30E-04	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Arsenic Compounds	1.50E-06	1.59E-06	3.12E-06	8.49E-06	1.61E-05	2.17E-05	4.58E-05	5.18E-05	0.00E+00	2.99E-06	1.01E-05	2.97E-06	0.00E+00
Hawaii	Hawaii County	15001	R	Benzene	5.21E-01	5.24E-01	5.51E-01	5.87E-01	6.60E-01	7.43E-01	9.57E-01	9.71E-01	0.00E+00	7.09E-02	7.41E-02	3.55E-02	4.80E-01
Hawaii	Hawaii County	15001	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
Hawaii	Hawaii County	15001	R	Beryllium Compounds	1.79E-08	1.94E-08	4.65E-08	1.52E-07	5.58E-07	5.41E-07	2.36E-06	3.30E-06	0.00E+00	5.53E-07	0.00E+00	5.08E-09	0.00E+00
Hawaii	Hawaii County	15001	R	1,3-Butadiene	5.62E-03	5.75E-03	8.62E-03	1.49E-02	2.18E-02	3.30E-02	5.03E-02	0.00E+00	9.30E-03	8.39E-03	4.13E-03	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Cadmium Compounds	5.80E-08	6.10E-08	2.04E-07	7.09E-07	1.31E-06	1.73E-06	4.49E-06	5.21E-06	0.00E+00	1.24E-06	0.00E+00	7.10E-08	0.00E+00
Hawaii	Hawaii County	15001	R	Carbon Disulfide	4.70E-02	4.70E-02	4.70E-02	4.71E-02	4.75E-02	4.73E-02	4.89E-02	4.95E-02	0.00E+00	4.50E-04	0.00E+00	0.00E+00	4.70E-02
Hawaii	Hawaii County	15001	R	Carbon Tetrachloride	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.80E-01	8.81E-01	0.00E+00	1.05E-04	0.00E+00	0.00E+00	8.80E-01
Hawaii	Hawaii County	15001	R	Chloroform	8.31E-02	8.32E-02	8.34E-02	8.43E-02	8.66E-02	8.78E-02	9.41E-02	9.75E-02	0.00E+00	3.56E-03	0.00E+00	0.00E+00	8.30E-02
Hawaii	Hawaii County	15001	R	Chromium Compounds (includes Hexavalent)	8.81E-07	8.85E-07	1.93E-06	5.50E-06	9.56E-06	1.29E-05	2.72E-05	3.07E-05	0.00E+00	2.42E-06	6.47E-06	6.73E-07	0.00E+00
Hawaii	Hawaii County	15001	R	Chromium VI	3.43E-07	3.55E-07	7.54E-07	2.16E-06	3.79E-06	5.17E-06	1.08E-05	1.20E-05	0.00E+00	9.73E-07	2.59E-06	2.29E-07	0.00E+00
Hawaii	Hawaii County	15001	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
Hawaii	Hawaii County	15001	R	1,4-Dichlorobenzene	3.57E-04	3.80E-04	8.48E-04	2.90E-03	7.93E-03	1.06E-02	2.63E-02	2.81E-02	0.00E+00	7.93E-03	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	1,3-Dichloropropene	7.09E-04	7.48E-04	1.69E-03	5.87E-03	1.60E-02	2.16E-02	5.38E-02	5.70E-02	0.00E+00	1.60E-02	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	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	2.36E-07	0.00E+00	0.00E+00	7.70E-03
Hawaii	Hawaii County	15001	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.11E-02	6.10E-02	6.10E-02	6.10E-02	0.00E+00	5.10E-05	0.00E+00	0.00E+00	6.10E-02
Hawaii	Hawaii County	15001	R	Ethylene Oxide	1.16E-06	1.66E-06	7.63E-06	3.12E-05	2.49E-04	1.35E-04	5.72E-04	2.06E-03	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Formaldehyde	3.38E-01	3.50E-01	4.04E-01	4.56E-01	5.04E-01	5.92E-01	7.25E-01	7.77E-01	0.00E+00	1.48E-01	6.80E-02	3.77E-02	2.50E-01
Hawaii	Hawaii County	15001	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.33E-05	9.34E-05	9.41E-05	9.41E-05	0.00E+00	2.96E-07	0.00E+00	0.00E+00	9.30E-05
Hawaii	Hawaii County	15001	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	1.11E-08	0.00E+00	0.00E+00	1.80E-03
Hawaii	Hawaii County	15001	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
Hawaii	Hawaii County	15001	R	Hydrazine	5.54E-13	8.67E-13	4.47E-11	1.05E-10	1.39E-09	8.72E-10	4.44E-09	9.90E-09	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Lead Compounds	2.28E-06	3.09E-06	1.27E-05	2.65E-05	1.59E-04	1.19E-04	4.97E-04	5.19E-04	0.00E+00	3.99E-05	0.00E+00	1.25E-04	0.00E+00
Hawaii	Hawaii County	15001	R	Manganese Compounds	4.63E-07	5.07E-07	2.02E-06	3.03E-05	5.69E-05	1.12E-04	1.36E-04	1.37E-04	0.00E+00	5.39E-05	2.14E-06	9.01E-07	0.00E+00
Hawaii	Hawaii County	15001	R	Mercury Compounds	1.50E-03	1.50E-03	1.50E-03	1.51E-03	1.52E-03	1.53E-03	1.55E-03	1.56E-03	0.00E+00	3.57E-06	1.16E-05	2.44E-06	1.50E-03
Hawaii	Hawaii County	15001	R	Methylene Chloride	1.51E-01	1.51E-01	1.52E-01	1.61E-01	1.88E-01	1.93E-01	2.92E-01	3.55E-01	0.00E+00	3.75E-02	0.00E+00	0.00E+00	1.50E-01
Hawaii	Hawaii County	15001	R	Nickel Compounds	2.17E-06	2.28E-06	1.37E-05	5.17E-05	1.28E-04	2.56E-04	3.37E-04	3.52E-04	0.00E+00	1.10E-04	4.87E-06	1.28E-05	0.00E+00
Hawaii	Hawaii County	15001	R	Perchloroethylene	1.40E-01	1.40E-01	1.41E-01	1.44E-01	1.47E-01	1.49E-01	1.56E-01	1.62E-01	0.00E+00	6.87E-03	0.00E+00	0.00E+00	1.40E-01
Hawaii	Hawaii County	15001	R	Polychlorinated Biphenyls	3.82E-04	3.82E-04	3.84E-04	3.93E-04	4.11E-04	4.23E-04	4.94E-04	4.94E-04	0.00E+00	3.12E-05	0.00E+00	0.00E+00	3.80E-04
Hawaii	Hawaii County	15001	R	Polycyclic Organic Matter	1.90E-03	1.98E-03	3.20E-03	5.91E-03	9.84E-03	1.62E-02	2.58E-02	2.58E-02	0.00E+00	7.09E-03	1.85E-03	9.05E-04	0.00E+00
Hawaii	Hawaii County	15001	R	7-PAH	4.95E-04	5.42E-04	9.09E-04	1.19E-03	1.13E-03	1.36E-03	1.62E-03	1.70E-03	0.00E+00	1.11E-03	1.35E-05	9.02E-06	0.00E+00
Hawaii	Hawaii County	15001	R	Propylene Dichloride	4.74E-08	5.31E-08	1.75E-07	8.45E-07	2.63E-05	3.99E-06	1.77E-05	1.95E-05	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Quinoline	1.43E-11	3.73E-11	1.97E-10	7.14E-10	4.21E-09	2.66E-09	1.34E-08	2.77E-08	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	1,1,2,2-Tetrachloroethane	1.10E-08	2.13E-08	1.01E-07	3.54E-06	2.31E-04	3.15E-05	1.20E-04	1.49E-04	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	Hawaii County	15001	R	Trichloroethylene	8.11E-02	8.11E-02	8.12E-02	8.17E-02	8.51E-02	8.39E-02	9.72E-02	1.03E-01	0.00E+00	4.05E-03	0.00E+00	0.00E+00	8.10E-02
Hawaii	Hawaii County	15001	R	Vinyl Chloride	6.50E-08	8.43E-08	3.18E-07	8.74E-06	5.69E-04	7.77E-05	2.98E-04	3.68E-04	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Acetaldehyde	5.83E-02	9.09E-02	1.53E-01	2.91E-01	4.03E-01	5.51E-01	9.18E-01	1.11E+00	2.07E-05	4.29E-02	2.69E-01	9.09E-02	0.00E+00
Hawaii	Honolulu County	15003	U	Acrolein	9.18E-03	1.13E-02	2.34E-02	3.90E-02	4.10E-02	5.66E-02	6.67E-02	7.77E-02	1.64E-05	1.52E-02	1.77E-02	8.12E-03	0.00E+00
Hawaii	Honolulu County	15003	U	Acrylonitrile	7.57E-06	1.90E-05	3.36E-05	8.76E-05	2.70E-04	1.25E-04	1.91E-04	4.38E-04	1.69E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Arsenic Compounds	5.40E-06	1.02E-05	1.89E-05	4.63E-05	6.13E-05	8.71E-05	1.37E-04	1.66E-04	5.85E-06	4.67E-06	3.56E-05	1.52E-05	0.00E+00
Hawaii	Honolulu County	15003	U	Benzene	5.48E-01	5.75E-01	6.31E-01	7.80E-01	9.02E-01	1.04E+00	1.44E+00	1.68E+00	4.86E-03	2.86E-02	3.01E-01	8.83E-02	4.80E-01
Hawaii	Honolulu County	15003	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
Hawaii	Honolulu County	15003	U	Beryllium Compounds	9.29E-08	1.45E-07	3.53E-07	7.61E-07	1.72E-06	1.79E-06	3.32E-06	5.16E-06	1.78E-07	1.50E-06	0.00E+00	4.15E-08	0.00E+00
Hawaii	Honolulu County	15003	U	1,3-Butadiene	6.85E-03	8.30E-03	1.40E-02	2.78E-02	4.73E-02	6.00E-02	1.17E-01	1.51E-01	2.18E-05	3.27E-03	3.39E-02	1.02E-02	0.00E+00
Hawaii	Honolulu County	15003	U	Cadmium Compounds	3.16E-07	4.71E-07	1.05E-06	2.28E-06	5.06E-06	6.13E-06	1.22E-05	1.45E-05	2.12E-06	2.36E-06	0.00E+00	5.80E-07	0.00E+00
Hawaii	Honolulu County	15003	U	Carbon Disulfide	4.70E-02	4.71E-02	4.74E-02	4.79E-02	4.83E-02	4.84E-02	4.91E-02	5.19E-02	3.19E-05	1.27E-03	0.00E+00	0.00E+00	4.70E-02
Hawaii	Honolulu County	15003	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	0.00E+00	3.10E-07	3.24E-04	0.00E+00	8.80E-01
Hawaii	Honolulu County	15003	U	Chloroform	8.52E-02	8.91E-02	9.49E-02	1.02E-01	1.08E-01	1.15E-01	1.33E-01	1.47E-01	1.81E-06	2.46E-02	0.00E+00	0.00E+0	

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

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	
Hawaii	Honolulu County	15003	U	Ethylene Oxide	1.87E-05	4.07E-05	1.07E-04	2.47E-04	1.67E-03	7.18E-04	2.78E-03	7.36E-03	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	2.50E-01
Hawaii	Honolulu County	15003	U	Formaldehyde	3.20E-01	3.66E-01	4.34E-01	5.90E-01	7.11E-01	9.10E-01	1.25E+00	1.41E+00	2.19E-04	5.88E-02	2.49E-01	1.53E-01	1.53E-01	2.50E-01
Hawaii	Honolulu County	15003	U	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	3.09E-09	0.00E+00	0.00E+00	9.30E-05	9.30E-05
Hawaii	Honolulu County	15003	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	1.73E-07	0.00E+00	0.00E+00	1.80E-03	1.80E-03
Hawaii	Honolulu County	15003	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
Hawaii	Honolulu County	15003	U	Hydrazine	1.62E-11	4.91E-11	6.21E-10	2.20E-09	2.00E-08	8.66E-09	4.22E-08	5.91E-08	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Lead Compounds	1.48E-05	2.67E-05	5.81E-05	1.66E-04	3.80E-04	3.81E-04	7.88E-04	1.27E-03	7.59E-06	1.33E-04	0.00E+00	2.40E-04	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Manganese Compounds	3.11E-06	4.46E-06	8.78E-06	2.06E-05	3.91E-05	5.63E-05	9.50E-05	1.13E-04	1.40E-05	9.18E-06	9.86E-06	6.04E-06	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Mercury Compounds	1.50E-03	1.51E-03	1.52E-03	1.54E-03	1.57E-03	1.60E-03	1.64E-03	1.68E-03	6.41E-07	1.64E-05	3.51E-05	1.37E-05	1.50E-03	1.50E-03
Hawaii	Honolulu County	15003	U	Methylene Chloride	1.55E-01	1.65E-01	1.77E-01	2.06E-01	2.42E-01	2.51E-01	3.34E-01	4.20E-01	6.12E-04	9.17E-02	0.00E+00	0.00E+00	1.50E-01	1.50E-01
Hawaii	Honolulu County	15003	U	Nickel Compounds	2.62E-05	4.84E-05	1.22E-04	2.82E-04	7.30E-04	7.81E-04	1.90E-03	2.41E-03	3.58E-04	2.27E-04	2.22E-05	1.23E-04	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Perchloroethylene	1.45E-01	1.53E-01	1.62E-01	1.83E-01	2.00E-01	2.21E-01	2.58E-01	3.20E-01	3.17E-04	5.99E-02	0.00E+00	0.00E+00	1.40E-01	1.40E-01
Hawaii	Honolulu County	15003	U	Polychlorinated Biphenyls	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	8.27E-10	0.00E+00	0.00E+00	0.00E+00	3.80E-04	3.80E-04
Hawaii	Honolulu County	15003	U	Polycyclic Organic Matter	4.24E-03	9.50E-03	1.64E-02	2.86E-02	3.53E-02	4.66E-02	7.49E-02	9.94E-02	5.04E-04	2.42E-02	8.22E-03	2.41E-03	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	7-PAH	8.60E-05	1.48E-04	2.65E-04	5.02E-04	4.89E-04	6.50E-04	8.31E-04	9.84E-04	3.63E-07	4.09E-04	5.05E-05	2.99E-05	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Propylene Dichloride	3.19E-07	7.17E-07	1.23E-06	3.65E-06	1.37E-05	4.71E-06	9.03E-06	1.72E-05	1.03E-05	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Quinoline	7.25E-10	1.14E-09	6.17E-09	1.44E-08	5.93E-08	4.03E-08	1.24E-07	1.74E-07	0.00E+00	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	1,1,2,2-Tetrachloroethane	8.93E-08	1.85E-07	3.57E-07	6.49E-06	9.52E-05	1.16E-05	1.83E-05	4.22E-05	9.40E-05	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Honolulu County	15003	U	Trichloroethylene	8.14E-02	8.20E-02	8.32E-02	8.58E-02	9.90E-02	9.53E-02	1.20E-01	1.52E-01	1.87E-04	1.78E-02	0.00E+00	0.00E+00	8.10E-02	8.10E-02
Hawaii	Honolulu County	15003	U	Vinyl Chloride	4.02E-07	7.94E-07	2.28E-06	1.74E-05	2.37E-04	3.09E-05	5.51E-05	1.09E-04	2.31E-04	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Acetaldehyde	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	0.00E+00	1.80E-02	4.32E-03	3.80E-03	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Acrolein	5.32E-03	5.32E-03	5.32E-03	5.32E-03	5.32E-03	5.32E-03	5.32E-03	5.32E-03	0.00E+00	4.47E-03	3.91E-04	4.58E-04	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Acrylonitrile	4.48E-04	4.48E-04	4.48E-04	4.48E-04	4.48E-04	4.48E-04	4.48E-04	4.48E-04	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Arsenic Compounds	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	0.00E+00	5.86E-08	6.59E-07	4.27E-07	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Benzene	5.02E-01	5.02E-01	5.02E-01	5.02E-01	5.02E-01	5.02E-01	5.02E-01	5.02E-01	0.00E+00	1.05E-02	4.28E-03	6.92E-03	4.80E-01	4.80E-01
Hawaii	Kalawao County	15005	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
Hawaii	Kalawao County	15005	R	Beryllium Compounds	3.21E-08	3.21E-08	3.21E-08	3.21E-08	3.21E-08	3.21E-08	3.21E-08	3.21E-08	0.00E+00	2.85E-08	0.00E+00	3.55E-09	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	1,3-Butadiene	2.39E-03	2.39E-03	2.39E-03	2.39E-03	2.39E-03	2.39E-03	2.39E-03	2.39E-03	0.00E+00	1.63E-03	3.88E-04	3.81E-04	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Cadmium Compounds	9.73E-08	9.73E-08	9.73E-08	9.73E-08	9.73E-08	9.73E-08	9.73E-08	9.73E-08	0.00E+00	4.77E-08	0.00E+00	4.96E-08	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Carbon Disulfide	4.71E-02	4.71E-02	4.71E-02	4.71E-02	4.71E-02	4.71E-02	4.71E-02	4.71E-02	0.00E+00	7.56E-05	0.00E+00	0.00E+00	4.70E-02	4.70E-02
Hawaii	Kalawao County	15005	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	7.01E-06	0.00E+00	0.00E+00	8.80E-01	8.80E-01
Hawaii	Kalawao County	15005	R	Chloroform	8.32E-02	8.32E-02	8.32E-02	8.32E-02	8.32E-02	8.32E-02	8.32E-02	8.32E-02	0.00E+00	2.09E-04	0.00E+00	0.00E+00	8.30E-02	8.30E-02
Hawaii	Kalawao County	15005	R	Chromium Compounds (includes Hexavalent)	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	0.00E+00	4.59E-08	4.17E-07	2.25E-07	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Chromium VI	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	0.00E+00	2.41E-08	1.68E-07	7.65E-08	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	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
Hawaii	Kalawao County	15005	R	1,4-Dichlorobenzene	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	1,3-Dichloropropene	7.90E-04	7.90E-04	7.90E-04	7.90E-04	7.90E-04	7.90E-04	7.90E-04	7.90E-04	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	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	2.49E-07	0.00E+00	0.00E+00	7.70E-03	7.70E-03
Hawaii	Kalawao County	15005	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	5.40E-05	0.00E+00	0.00E+00	6.10E-02	6.10E-02
Hawaii	Kalawao County	15005	R	Ethylene Oxide	6.16E-06	6.16E-06	6.16E-06	6.16E-06	6.16E-06	6.16E-06	6.16E-06	6.16E-06	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Formaldehyde	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	0.00E+00	2.40E-02	3.92E-03	5.66E-03	2.50E-01	2.50E-01
Hawaii	Kalawao County	15005	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	9.30E-05	0.00E+00	1.23E-08	0.00E+00	0.00E+00	9.30E-05	9.30E-05
Hawaii	Kalawao County	15005	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	2.72E-09	0.00E+00	0.00E+00	1.80E-03	1.80E-03
Hawaii	Kalawao County	15005	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
Hawaii	Kalawao County	15005	R	Hydrazine	2.06E-14	2.06E-14	2.06E-14	2.06E-14	2.06E-14	2.06E-14	2.06E-14	2.06E-14	0.00E+00	2.06E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Lead Compounds	9.16E-05	9.16E-05	9.16E-05	9.16E-05	9.16E-05	9.16E-05	9.16E-05	9.16E-05	0.00E+00	1.06E-06	0.00E+00	9.05E-05	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Manganese Compounds	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	0.00E+00	1.05E-07	1.37E-07	4.55E-07	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Mercury Compounds	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.50E-03	1.50E-03	0.00E+00	2.21E-07	7.60E-07	4.80E-07	1.50E-03	1.50E-03
Hawaii	Kalawao County	15005	R	Methylene Chloride	1.53E-01	1.53E-01	1.53E-01	1.53E-01	1.53E-01	1.53E-01	1.53E-01	1.53E-01	0.00E+00	3.16E-03	0.00E+00	0.00E+00	1.50E-01	1.50E-01
Hawaii	Kalawao County	15005	R	Nickel Compounds	9.14E-06	9.14E-06	9.14E-06	9.14E-06	9.14E-06	9.14E-06	9.14E-06	9.14E-06	0.00E+00	4.39E-07	3.15E-07	8.39E-06	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R	Perchloroethylene	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	0.00E+00	1.07E-03	0.00E+00	0.00E+00	1.40E-01	1.40E-01
Hawaii	Kalawao County	15005	R	Polychlorinated Biphenyls	3.81E-04	3.81E-04	3.81E-04	3.81E-04	3.81E-04	3.81E-04	3.81E-04	3.81E-04	0.00E+00	1.27E-06	0.00E+00	0.00E+00	3.80E-04	3.80E-04
Hawaii	Kalawao County	15005	R	Polycyclic Organic Matter	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	0.00E+00	7.15E-04	1.26E-04	1.84E-04	0.00E+00	0.00E+00
Hawaii	Kalawao County	15005	R															

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

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	
Hawaii	Kauai County	15007	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
Hawaii	Kauai County	15007	R	Beryllium Compounds	2.89E-13	1.23E-09	2.60E-08	1.15E-07	1.63E-07	2.27E-07	5.22E-07	5.22E-07	0.00E+00	1.59E-07	0.00E+00	4.10E-09	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	1,3-Butadiene	3.77E-04	1.96E-03	4.20E-03	7.37E-03	8.20E-03	1.27E-02	1.45E-02	1.86E-02	0.00E+00	4.30E-03	2.47E-03	1.43E-03	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Cadmium Compounds	4.03E-12	1.80E-09	4.62E-08	2.84E-07	3.02E-07	3.39E-07	8.86E-07	8.92E-07	0.00E+00	2.45E-07	0.00E+00	5.73E-08	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Carbon Disulfide	4.70E-02	4.70E-02	4.70E-02	4.71E-02	4.71E-02	4.71E-02	4.73E-02	4.73E-02	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	4.70E-02
Hawaii	Kauai County	15007	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	2.51E-05	0.00E+00	0.00E+00	0.00E+00	8.80E-01
Hawaii	Kauai County	15007	R	Chloroform	8.30E-02	8.30E-02	8.35E-02	8.48E-02	8.48E-02	8.60E-02	8.65E-02	8.76E-02	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	8.30E-02
Hawaii	Kauai County	15007	R	Chromium Compounds (includes Hexavalent)	4.06E-08	9.56E-08	9.66E-07	2.63E-06	2.62E-06	4.33E-06	4.65E-06	5.87E-06	0.00E+00	3.30E-07	2.03E-06	2.62E-07	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Chromium VI	1.39E-08	3.61E-08	3.86E-07	1.07E-06	1.06E-06	1.80E-06	1.93E-06	2.41E-06	0.00E+00	1.48E-07	8.25E-07	8.92E-08	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	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
Hawaii	Kauai County	15007	R	1,4-Dichlorobenzene	1.00E-06	3.78E-05	5.47E-04	2.04E-03	2.02E-03	3.11E-03	4.11E-03	5.52E-03	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	1,3-Dichloropropene	1.87E-06	7.29E-05	1.11E-03	4.12E-03	4.10E-03	6.32E-03	8.40E-03	1.13E-02	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	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	3.04E-09	0.00E+00	0.00E+00	0.00E+00	7.70E-03
Hawaii	Kauai County	15007	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	0.00E+00	5.04E-07	0.00E+00	0.00E+00	0.00E+00	6.10E-02
Hawaii	Kauai County	15007	R	Ethylene Oxide	0.00E+00	6.08E-07	3.56E-06	3.96E-05	8.18E-05	5.68E-05	3.57E-04	3.58E-04	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Formaldehyde	2.53E-01	2.71E-01	2.96E-01	3.36E-01	3.42E-01	3.86E-01	4.02E-01	4.76E-01	0.00E+00	5.18E-02	1.97E-02	2.06E-02	2.50E-01	0.00E+00
Hawaii	Kauai County	15007	R	Hexachlorobenzene	9.30E-05	9.30E-05	9.30E-05	9.31E-05	9.31E-05	9.31E-05	9.31E-05	9.32E-05	0.00E+00	7.27E-08	0.00E+00	0.00E+00	0.00E+00	9.30E-05
Hawaii	Kauai County	15007	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-08	0.00E+00	0.00E+00	0.00E+00	1.80E-03
Hawaii	Kauai County	15007	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
Hawaii	Kauai County	15007	R	Hydrazine	0.00E+00	3.23E-12	2.00E-11	3.58E-10	7.09E-10	1.08E-09	2.44E-09	2.45E-09	0.00E+00	7.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Lead Compounds	1.40E-07	1.56E-07	2.68E-06	1.04E-05	5.37E-05	4.36E-05	5.16E-05	4.52E-04	0.00E+00	4.93E-06	0.00E+00	4.87E-05	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Manganese Compounds	1.43E-08	3.87E-08	4.85E-07	2.40E-06	2.13E-06	2.81E-06	5.07E-06	5.11E-06	0.00E+00	9.17E-07	6.71E-07	5.45E-07	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Mercury Compounds	1.50E-03	1.50E-03	1.50E-03	1.51E-03	1.51E-03	1.51E-03	1.51E-03	1.51E-03	0.00E+00	7.07E-07	3.99E-06	8.37E-07	1.50E-03	0.00E+00
Hawaii	Kauai County	15007	R	Methylene Chloride	1.50E-01	1.51E-01	1.52E-01	1.57E-01	1.58E-01	1.64E-01	1.73E-01	1.73E-01	0.00E+00	8.30E-03	0.00E+00	0.00E+00	1.50E-01	0.00E+00
Hawaii	Kauai County	15007	R	Nickel Compounds	3.06E-08	9.67E-08	3.33E-06	1.49E-05	2.58E-05	4.84E-05	6.49E-05	6.62E-05	0.00E+00	1.17E-05	1.53E-06	1.25E-05	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Perchloroethylene	1.40E-01	1.40E-01	1.41E-01	1.43E-01	1.44E-01	1.48E-01	1.50E-01	1.52E-01	0.00E+00	4.15E-03	0.00E+00	0.00E+00	1.40E-01	0.00E+00
Hawaii	Kauai County	15007	R	Polychlorinated Biphenyls	3.80E-04	3.82E-04	3.83E-04	3.88E-04	3.88E-04	3.92E-04	3.96E-04	4.02E-04	0.00E+00	8.25E-06	0.00E+00	0.00E+00	3.80E-04	0.00E+00
Hawaii	Kauai County	15007	R	Polycyclic Organic Matter	6.12E-05	4.52E-04	1.34E-03	3.74E-03	3.61E-03	4.61E-03	6.39E-03	1.09E-02	0.00E+00	2.19E-03	5.89E-04	8.28E-04	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	7-PAH	1.68E-05	1.48E-04	2.59E-04	3.90E-04	4.04E-04	5.42E-04	7.04E-04	7.91E-04	0.00E+00	3.94E-04	4.42E-06	5.61E-06	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Propylene Dichloride	0.00E+00	1.86E-09	6.47E-08	3.80E-07	3.94E-07	4.94E-07	1.07E-06	1.12E-06	0.00E+00	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Quinoline	0.00E+00	3.69E-11	1.07E-10	1.12E-09	2.16E-09	3.42E-09	6.80E-09	6.82E-09	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	1,1,2,2-Tetrachloroethane	0.00E+00	2.38E-10	2.09E-07	1.30E-06	1.34E-06	2.20E-06	2.81E-06	3.63E-06	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Kauai County	15007	R	Trichloroethylene	8.10E-02	8.10E-02	8.11E-02	8.17E-02	8.21E-02	8.25E-02	8.45E-02	8.45E-02	0.00E+00	1.07E-03	0.00E+00	0.00E+00	8.10E-02	0.00E+00
Hawaii	Kauai County	15007	R	Vinyl Chloride	0.00E+00	2.04E-09	5.68E-07	3.30E-06	3.40E-06	5.64E-06	7.27E-06	8.96E-06	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Acetaldehyde	2.49E-02	2.71E-02	4.83E-02	8.90E-02	1.12E-01	1.42E-01	2.34E-01	2.34E-01	0.00E+00	3.15E-02	4.13E-02	3.89E-02	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Acrolein	5.67E-03	6.29E-03	9.72E-03	1.58E-02	1.76E-02	2.56E-02	3.35E-02	3.74E-02	0.00E+00	8.17E-03	2.72E-03	6.74E-03	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Acrylonitrile	3.69E-07	5.75E-07	3.83E-06	1.19E-05	6.29E-05	3.26E-05	5.52E-05	1.70E-04	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Arsenic Compounds	1.01E-06	1.22E-06	3.22E-06	8.20E-06	1.13E-05	1.62E-05	3.31E-05	3.39E-05	0.00E+00	1.64E-06	6.38E-06	3.28E-06	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Benzene	5.04E-01	5.06E-01	5.23E-01	5.49E-01	5.63E-01	5.82E-01	6.52E-01	6.85E-01	0.00E+00	1.94E-02	4.12E-02	2.23E-02	4.80E-01	0.00E+00
Hawaii	Maui County	15009	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
Hawaii	Maui County	15009	R	Beryllium Compounds	1.99E-08	5.03E-08	6.17E-08	1.66E-07	1.22E-07	3.35E-07	4.03E-07	1.22E-06	0.00E+00	3.17E-07	0.00E+00	1.82E-08	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	1,3-Butadiene	2.48E-03	2.84E-03	4.26E-03	8.47E-03	1.09E-02	1.49E-02	2.27E-02	2.62E-02	0.00E+00	2.63E-03	4.67E-03	3.57E-03	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Cadmium Compounds	5.21E-08	7.00E-08	2.13E-07	4.46E-07	9.56E-07	1.32E-06	2.06E-06	2.24E-06	0.00E+00	7.01E-07	0.00E+00	2.55E-07	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Carbon Disulfide	4.70E-02	4.70E-02	4.70E-02	4.71E-02	4.71E-02	4.72E-02	4.75E-02	4.76E-02	0.00E+00	1.43E-04	0.00E+00	0.00E+00	4.70E-02	0.00E+00
Hawaii	Maui County	15009	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	3.47E-05	0.00E+00	0.00E+00	8.80E-01	0.00E+00
Hawaii	Maui County	15009	R	Chloroform	8.31E-02	8.32E-02	8.37E-02	8.48E-02	8.64E-02	8.79E-02	9.36E-02	9.63E-02	0.00E+00	3.43E-03	0.00E+00	0.00E+00	8.30E-02	0.00E+00
Hawaii	Maui County	15009	R	Chromium Compounds (includes Hexavalent)	5.30E-07	7.34E-07	1.84E-06	6.22E-06	6.22E-06	8.93E-06	1.62E-05	1.63E-05	0.00E+00	1.10E-06	4.11E-06	1.01E-06	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	Chromium VI	2.11E-07	2.89E-07	6.82E-07	1.66E-06	2.37E-06	3.12E-06	6.64E-06	6.65E-06	0.00E+00	3.86E-07	1.64E-06	3.44E-07	0.00E+00	0.00E+00
Hawaii	Maui County	15009	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
Hawaii	Maui County	15009	R	1,4-Dichlorobenzene	2.48E-04	5.03E-04	1.35E-03	3.70E-03	3.76E-03	9.64E-03	2.32E-02	2.93E-02	0.00E+00	7.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Maui County	15009	R	1,3-Dichloropropene	4.65E-04	8.31E-04	2.69E-03	7.55E-03	1.50E-02	1.97E-02	4.75E-02	5.99E-02	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hawaii	Maui County	15009	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	3.88E-08	0.00E+00	0.00E+00	7.70E-03	0.00E+00
Hawaii	Maui County	15009	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	0.00E+00	7.44E-06	0.00E+00	0.00E+00	6.10E-02	0.00E+00
Hawaii	Maui County	15009	R	Ethylene Oxide	2.01E-06	2.47E-06	7.31E-											

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 Estimated Annual Average Ambient Concentrations µg/m3 for Hawaii

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	
Hawaii	Maui County	15009	R	Perchloroethylene	1.40E-01	1.41E-01	1.42E-01	1.47E-01	1.50E-01	1.57E-01	1.64E-01	1.70E-01	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.40E-01	
Hawaii	Maui County	15009	R	Polychlorinated Biphenyls	3.80E-04	3.81E-04	3.81E-04	3.83E-04	3.85E-04	3.87E-04	3.95E-04	3.95E-04	0.00E+00	4.86E-06	0.00E+00	0.00E+00	3.80E-04	
Hawaii	Maui County	15009	R	Polycyclic Organic Matter	9.77E-04	1.49E-03	2.84E-03	6.23E-03	9.47E-03	1.51E-02	2.51E-02	2.64E-02	0.00E+00	5.29E-03	1.21E-03	2.97E-03	0.00E+00	
Hawaii	Maui County	15009	R	7-PAH	2.03E-04	2.09E-04	2.53E-04	3.48E-04	3.58E-04	4.40E-04	4.86E-04	5.68E-04	0.00E+00	3.31E-04	8.53E-06	1.94E-05	0.00E+00	
Hawaii	Maui County	15009	R	Propylene Dichloride	1.27E-08	1.88E-08	1.67E-07	5.45E-07	3.57E-06	1.57E-06	2.61E-06	1.02E-05	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	
Hawaii	Maui County	15009	R	Quinoline	1.41E-11	6.75E-11	9.28E-10	3.33E-09	1.19E-08	1.90E-08	3.97E-08	4.03E-08	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	
Hawaii	Maui County	15009	R	1,1,2,2-Tetrachloroethane	1.69E-09	2.65E-09	1.66E-08	7.87E-08	2.90E-05	5.71E-06	1.98E-05	9.31E-05	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	
Hawaii	Maui County	15009	R	Trichloroethylene	8.10E-02	8.11E-02	8.13E-02	8.17E-02	8.25E-02	8.29E-02	8.74E-02	8.76E-02	0.00E+00	1.55E-03	0.00E+00	0.00E+00	8.10E-02	
Hawaii	Maui County	15009	R	Vinyl Chloride	1.28E-08	1.61E-08	1.85E-07	1.44E-06	7.19E-05	1.45E-05	4.88E-05	2.29E-04	0.00E+00	7.19E-05	0.00E+00	0.00E+00	0.00E+00	