US EPA ARCHIVE DOCUMENT

1999 DRAFT Modeled Ambient Concentrations for Delaware: 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.

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Estimated Annual Average Ambient Concentrations µg/m3 for Delaware

					Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from …				
State	County	FIPS	Urban or Rural	Pollutant	5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Delaware	Statewide	N/A	N/A	Acetaldehyde	1.30E-01	1.36E-01	2.54E-01	4.46E-01	6.00E-01	7.59E-01	1.21E+00	1.57E+00	2.23E-02	1.41E-02	4.40E-01	1.23E-01	0.00E+00
Delaware	Statewide	N/A	N/A	Acrolein	2.01E-02	2.17E-02	3.39E-02	6.56E-02	6.92E-02	9.47E-02	1.23E-01	1.30E-01	3.07E-03	9.79E-03	4.49E-02	1.15E-02	0.00E+00
Delaware	Statewide	N/A	N/A	Acrylonitrile	1.31E-04	2.13E-04	2.48E-04	4.59E-04	1.15E-03	9.25E-04	2.54E-03	4.24E-03	7.66E-04	3.86E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Arsenic Compounds	2.45E-05	2.78E-05	4.00E-05	1.20E-04	1.46E-04	2.19E-04	3.11E-04	3.41E-04	4.55E-05	2.56E-05	5.77E-05	1.74E-05	0.00E+00
Delaware	Statewide	N/A	N/A	Benzene	6.58E-01	6.80E-01	7.89E-01	1.10E+00	1.26E+00	1.56E+00	1.99E+00	2.20E+00	3.66E-02	9.43E-02	4.95E-01	1.51E-01	4.80E-01
Delaware	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
Delaware	Statewide	N/A	N/A	Beryllium Compounds	1.61E-06	1.77E-06	2.88E-06	1.38E-05	1.53E-05	2.37E-05	3.15E-05	3.88E-05	2.98E-06	1.20E-05	0.00E+00	2.82E-07	0.00E+00
Delaware	Statewide	N/A	N/A	1,3-Butadiene	7.56E-03	8.72E-03	1.61E-02	3.90E-02	6.48E-02	8.64E-02	1.51E-01	1.82E-01	2.42E-03	9.03E-04	4.88E-02	1.27E-02	0.00E+00
Delaware	Statewide	N/A	N/A	Cadmium Compounds	2.80E-06	3.41E-06	6.01E-06	5.62E-05	5.62E-05	9.46E-05	1.20E-04	1.34E-04	3.84E-05	1.70E-05	0.00E+00	7.98E-07	0.00E+00
Delaware	Statewide	N/A	N/A	Carbon Disulfide	4.77E-02	4.80E-02	4.88E-02	5.20E-02	5.37E-02	5.58E-02	6.12E-02	6.41E-02	2.82E-03	3.88E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	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	8.80E-01	0.00E+00	2.08E-04	0.00E+00	0.00E+00	8.80E-01
Delaware	Statewide	N/A	N/A	Chloroform	8.38E-02	8.40E-02	8.50E-02	9.32E-02	9.30E-02	9.84E-02	1.03E-01	1.08E-01	7.24E-04	9.31E-03	0.00E+00	0.00E+00	8.30E-02
Delaware	Statewide	N/A	N/A	Chromium Compounds (includes Hexavalent)	1.55E-05	1.85E-05	3.20E-05	7.37E-04	1.88E-03	2.16E-03	3.85E-03	5.30E-03	2.73E-04	1.56E-03	4.67E-05	3.92E-06	0.00E+00
Delaware	Statewide	N/A	N/A	Chromium VI	6.00E-06	6.53E-06	1.10E-05	1.73E-04	5.15E-04	4.55E-04	1.03E-03	1.46E-03	1.65E-05	4.78E-04	1.87E-05	1.33E-06	0.00E+00
Delaware	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
Delaware	Statewide	N/A	N/A	1,4-Dichlorobenzene	5.49E-03	6.43E-03	1.15E-02	4.27E-02	4.58E-02	5.77E-02	8.43E-02	1.04E-01	1.11E-02	3.47E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	1,3-Dichloropropene	1.07E-02	1.24E-02	2.09E-02	6.19E-02	6.88E-02	9.21E-02	1.34E-01	1.89E-01	4.87E-06	6.88E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	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	0.00E+00	9.64E-07	0.00E+00	0.00E+00	7.70E-03
Delaware	Statewide	N/A	N/A	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.66E-02	6.71E-02	7.16E-02	7.50E-02	7.77E-02	5.48E-03	5.80E-04	0.00E+00	0.00E+00	6.10E-02
Delaware	Statewide	N/A	N/A	Ethylene Oxide	2.28E-04	3.20E-04	7.81E-04	6.81E-03	1.01E-02	1.57E-02	2.39E-02	2.63E-02	6.71E-03	3.41E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Formaldehyde	3.80E-01	3.96E-01	4.72E-01	8.94E-01	1.10E+00	1.41E+00	1.82E+00	2.25E+00	1.93E-01	4.80E-02	4.22E-01	1.87E-01	2.50E-01
Delaware	Statewide	N/A	N/A	Hexachlorobenzene	9.33E-05	9.34E-05	9.36E-05	9.37E-05	9.38E-05	9.39E-05	9.40E-05	9.42E-05	4.85E-08	7.09E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	Statewide	N/A	N/A	Hexachlorobutadiene	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	0.00E+00	3.67E-07	0.00E+00	0.00E+00	1.80E-03
Delaware	Statewide	N/A	N/A	Hexamethylene Diisocyanate	6.87E-09	1.12E-08	1.06E-05	1.97E-04	9.60E-04	8.12E-04	1.55E-03	2.19E-03	9.48E-04	1.27E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Hydrazine	1.00E-08	1.88E-08	9.34E-08	3.69E-07	1.64E-06	8.67E-07	2.54E-06	5.23E-06	1.38E-06	2.58E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Lead Compounds	1.19E-04	2.18E-04	4.69E-04	1.18E-03	1.41E-03	1.73E-03	2.54E-03	3.88E-03	1.82E-04	3.83E-04	0.00E+00	8.48E-04	0.00E+00
Delaware	Statewide	N/A	N/A	Manganese Compounds	2.08E-05	2.73E-05	4.60E-05	6.33E-04	1.81E-03	1.88E-03	3.38E-03	5.03E-03	1.52E-04	1.64E-03	1.50E-05	6.61E-06	0.00E+00
Delaware	Statewide	N/A	N/A	Mercury Compounds	1.52E-03	1.52E-03	1.56E-03	1.88E-03	1.98E-03	2.08E-03	2.26E-03	2.58E-03	4.77E-05	3.62E-04	5.85E-05	1.57E-05	1.50E-03
Delaware	Statewide	N/A	N/A	Methylene Chloride	1.69E-01	1.72E-01	1.87E-01	3.12E-01	3.36E-01	3.99E-01	5.36E-01	7.18E-01	1.70E-02	1.69E-01	0.00E+00	0.00E+00	1.50E-01
Delaware	Statewide	N/A	N/A	Nickel Compounds	7.01E-05	9.22E-05	1.73E-04	1.24E-03	1.81E-03	3.07E-03	3.99E-03	5.08E-03	9.33E-04	7.20E-04	3.47E-05	1.25E-04	0.00E+00
Delaware	Statewide	N/A	N/A	Perchloroethylene	1.45E-01	1.46E-01	1.56E-01	1.81E-01	1.85E-01	2.10E-01	2.26E-01	2.38E-01	7.49E-05	4.46E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	Statewide	N/A	N/A	Polychlorinated Biphenyls	4.02E-04	4.10E-04	4.22E-04	4.31E-04	4.32E-04	4.38E-04	4.50E-04	4.69E-04	1.37E-08	5.21E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	Statewide	N/A	N/A	Polycyclic Organic Matter	1.14E-02	1.28E-02	2.05E-02	5.38E-02	6.01E-02	8.75E-02	1.23E-01	1.41E-01	5.41E-03	3.77E-02	1.44E-02	2.63E-03	0.00E+00
Delaware	Statewide	N/A	N/A	7-PAH	3.02E-04	3.83E-04	5.88E-04	8.24E-04	7.94E-04	9.45E-04	1.16E-03	1.33E-03	4.74E-06	6.42E-04	9.78E-05	4.91E-05	0.00E+00
Delaware	Statewide	N/A	N/A	Propylene Dichloride	4.33E-06	5.19E-06	9.32E-06	1.57E-05	2.64E-05	2.93E-05	5.12E-05	8.11E-05	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Quinoline	1.38E-07	1.79E-07	3.64E-07	5.90E-07	1.01E-06	1.01E-06	1.84E-06	3.20E-06	0.00E+00	1.01E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	1,1,2,2-Tetrachloroethane	1.78E-05	2.10E-05	4.20E-05	7.70E-05	1.45E-04	1.49E-04	3.17E-04	4.73E-04	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Statewide	N/A	N/A	Trichloroethylene	8.21E-02	8.28E-02	8.60E-02	9.15E-02	1.06E-01	1.24E-01	1.42E-01	1.54E-01	1.65E-02	8.91E-03	0.00E+00	0.00E+00	8.10E-02
Delaware	Statewide	N/A	N/A	Vinyl Chloride	6.97E-05	8.40E-05	2.79E-04	2.75E-02	2.55E-02	3.72E-02	4.93E-02	6.22E-02	2.19E-02	3.56E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Acetaldehyde	2.40E-01	3.25E-01	4.27E-01	6.19E-01	7.70E-01	1.01E+00	1.39E+00	1.60E+00	4.17E-03	1.78E-02	5.86E-01	1.62E-01	0.00E+00
Delaware	All Urban Counties	N/A	U	Acrolein	3.94E-02	5.03E-02	6.35E-02	8.60E-02	8.84E-02	1.12E-01	1.27E-01	1.39E-01	1.92E-03	1.14E-02	6.04E-02	1.47E-02	0.00E+00
Delaware	All Urban Counties	N/A	U	Acrylonitrile	2.21E-04	2.31E-04	2.69E-04	4.35E-04	6.09E-04	7.09E-04	1.13E-03	1.46E-03	1.08E-04	5.01E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Arsenic Compounds	5.83E-05	8.30E-05	1.21E-04	1.84E-04	2.01E-04	2.72E-04	3.34E-04	3.77E-04	6.72E-05	3.62E-05	7.47E-05	2.34E-05	0.00E+00
Delaware	All Urban Counties	N/A	U	Benzene	8.14E-01	9.51E-01	1.11E+00	1.35E+00	1.50E+00	1.79E+00	2.15E+00	2.30E+00	5.62E-02	1.10E-01	6.68E-01	1.88E-01	4.80E-01
Delaware	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
Delaware	All Urban Counties	N/A	U	Beryllium Compounds	6.09E-06	9.91E-06	1.40E-05	2.01E-05	2.22E-05	2.87E-05	3.74E-05	3.99E-05	4.43E-06	1.74E-05	0.00E+00	4.08E-07	0.00E+00
Delaware	All Urban Counties	N/A	U	1,3-Butadiene	1.51E-02	2.33E-02	3.52E-02	5.75E-02	8.38E-02	1.11E-01	1.68E-01	2.12E-01	1.20E-03	1.47E-04	6.54E-02	1.71E-02	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Delaware

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
Delaware	All Urban Counties	N/A	U	Cadmium Compounds	3.70E-05	4.54E-05	5.84E-05	7.95E-05	8.42E-05	1.09E-04	1.24E-04	1.39E-04	5.86E-05	2.44E-05	0.00E+00	1.16E-06	0.00E+00
Delaware	All Urban Counties	N/A	U	Carbon Disulfide	5.03E-02	5.05E-02	5.21E-02	5.43E-02	5.63E-02	5.84E-02	6.27E-02	6.72E-02	4.34E-03	4.95E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	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	0.00E+00	2.37E-04	0.00E+00	0.00E+00	8.80E-01
Delaware	All Urban Counties	N/A	U	Chloroform	8.71E-02	9.11E-02	9.33E-02	9.60E-02	9.74E-02	1.01E-01	1.05E-01	1.09E-01	1.12E-03	1.33E-02	0.00E+00	0.00E+00	8.30E-02
Delaware	All Urban Counties	N/A	U	Chromium Compounds (includes Hexavalent)	4.65E-04	5.76E-04	7.63E-04	1.77E-03	2.89E-03	2.84E-03	5.01E-03	5.55E-03	4.19E-04	2.41E-03	6.29E-05	5.43E-06	0.00E+00
Delaware	All Urban Counties	N/A	U	Chromium VI	9.13E-05	1.28E-04	1.80E-04	3.61E-04	7.91E-04	7.03E-04	1.43E-03	1.61E-03	2.49E-05	7.40E-04	2.51E-05	1.85E-06	0.00E+00
Delaware	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
Delaware	All Urban Counties	N/A	U	1,4-Dichlorobenzene	1.95E-02	3.37E-02	4.39E-02	5.28E-02	6.53E-02	7.08E-02	9.90E-02	1.17E-01	1.71E-02	4.82E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	1,3-Dichloropropene	2.61E-02	5.30E-02	6.40E-02	8.27E-02	9.54E-02	1.11E-01	1.60E-01	2.03E-01	7.55E-06	9.54E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	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	0.00E+00	1.27E-06	0.00E+00	0.00E+00	7.70E-03
Delaware	All Urban Counties	N/A	U	Ethylene Dichloride	6.41E-02	6.51E-02	6.68E-02	7.03E-02	7.04E-02	7.29E-02	7.69E-02	7.97E-02	8.50E-03	8.89E-04	0.00E+00	0.00E+00	6.10E-02
Delaware	All Urban Counties	N/A	U	Ethylene Oxide	3.08E-03	3.98E-03	7.04E-03	1.29E-02	1.53E-02	1.88E-02	2.51E-02	3.18E-02	1.04E-02	4.90E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Formaldehyde	5.65E-01	7.38E-01	9.11E-01	1.13E+00	1.43E+00	1.60E+00	2.03E+00	2.43E+00	2.97E-01	5.89E-02	5.68E-01	2.55E-01	2.50E-01
Delaware	All Urban Counties	N/A	U	Hexachlorobenzene	9.36E-05	9.36E-05	9.37E-05	9.38E-05	9.39E-05	9.39E-05	9.41E-05	9.42E-05	7.52E-08	8.06E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	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	5.28E-07	0.00E+00	0.00E+00	1.80E-03
Delaware	All Urban Counties	N/A	U	Hexamethylene Diisocyanate	1.25E-04	1.42E-04	2.07E-04	5.92E-04	1.48E-03	1.12E-03	1.94E-03	2.56E-03	1.47E-03	9.77E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Hydrazine	1.74E-07	2.17E-07	3.70E-07	5.95E-07	2.49E-06	1.28E-06	3.86E-06	6.07E-06	2.14E-06	3.49E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Lead Compounds	9.10E-04	9.82E-04	1.18E-03	1.61E-03	1.97E-03	2.02E-03	3.07E-03	4.88E-03	2.77E-04	5.70E-04	0.00E+00	1.12E-03	0.00E+00
Delaware	All Urban Counties	N/A	U	Manganese Compounds	3.61E-04	4.99E-04	6.75E-04	1.46E-03	2.79E-03	2.58E-03	4.95E-03	5.55E-03	2.30E-04	2.53E-03	2.02E-05	9.42E-06	0.00E+00
Delaware	All Urban Counties	N/A	U	Mercury Compounds	1.79E-03	1.82E-03	1.90E-03	2.02E-03	2.21E-03	2.14E-03	2.44E-03	2.73E-03	7.35E-05	5.45E-04	7.38E-05	2.14E-05	1.50E-03
Delaware	All Urban Counties	N/A	U	Methylene Chloride	2.38E-01	2.68E-01	3.12E-01	3.65E-01	4.16E-01	4.44E-01	6.06E-01	7.73E-01	2.58E-02	2.40E-01	0.00E+00	0.00E+00	1.50E-01
Delaware	All Urban Counties	N/A	U	Nickel Compounds	6.52E-04	8.10E-04	1.42E-03	2.42E-03	2.72E-03	3.46E-03	4.62E-03	5.42E-03	1.41E-03	1.08E-03	4.67E-05	1.84E-04	0.00E+00
Delaware	All Urban Counties	N/A	U	Perchloroethylene	1.56E-01	1.69E-01	1.82E-01	2.04E-01	2.01E-01	2.16E-01	2.36E-01	2.40E-01	1.16E-04	6.11E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	All Urban Counties	N/A	U	Polychlorinated Biphenyls	4.11E-04	4.20E-04	4.25E-04	4.31E-04	4.30E-04	4.35E-04	4.43E-04	4.47E-04	2.09E-08	5.03E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	All Urban Counties	N/A	U	Polycyclic Organic Matter	2.50E-02	3.98E-02	5.40E-02	7.53E-02	8.15E-02	1.06E-01	1.36E-01	1.50E-01	8.33E-03	5.03E-02	1.92E-02	3.64E-03	0.00E+00
Delaware	All Urban Counties	N/A	U	7-PAH	4.62E-04	6.63E-04	8.22E-04	9.06E-04	9.16E-04	1.00E-03	1.22E-03	1.42E-03	7.24E-06	7.18E-04	1.28E-04	6.22E-05	0.00E+00
Delaware	All Urban Counties	N/A	U	Propylene Dichloride	8.92E-06	1.15E-05	1.42E-05	2.21E-05	3.46E-05	3.50E-05	6.36E-05	9.90E-05	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Quinoline	2.83E-07	3.81E-07	4.96E-07	8.52E-07	1.32E-06	1.16E-06	2.37E-06	3.25E-06	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	1,1,2,2-Tetrachloroethane	4.95E-05	5.81E-05	6.68E-05	1.15E-04	1.93E-04	1.75E-04	3.55E-04	6.19E-04	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	All Urban Counties	N/A	U	Trichloroethylene	8.37E-02	8.56E-02	8.77E-02	9.23E-02	1.05E-01	1.24E-01	1.41E-01	1.53E-01	1.28E-02	1.11E-02	0.00E+00	0.00E+00	8.10E-02
Delaware	All Urban Counties	N/A	U	Vinyl Chloride	1.45E-02	1.86E-02	2.86E-02	3.51E-02	3.83E-02	4.26E-02	5.47E-02	6.65E-02	3.29E-02	5.42E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Acetaldehyde	1.06E-01	1.29E-01	1.36E-01	2.17E-01	2.91E-01	3.28E-01	4.11E-01	4.77E-01	5.53E-02	7.42E-03	1.76E-01	5.26E-02	0.00E+00
Delaware	All Rural Counties	N/A	R	Acrolein	1.91E-02	1.98E-02	2.12E-02	2.51E-02	3.43E-02	4.36E-02	5.81E-02	7.18E-02	5.15E-03	6.81E-03	1.67E-02	5.71E-03	0.00E+00
Delaware	All Rural Counties	N/A	R	Acrylonitrile	1.05E-04	1.29E-04	2.01E-04	7.21E-04	2.14E-03	2.23E-03	5.97E-03	8.55E-03	1.96E-03	1.77E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Arsenic Compounds	2.17E-05	2.30E-05	2.64E-05	3.39E-05	4.58E-05	4.56E-05	6.93E-05	7.95E-05	6.14E-06	6.25E-06	2.70E-05	6.47E-06	0.00E+00
Delaware	All Rural Counties	N/A	R	Benzene	6.39E-01	6.50E-01	6.76E-01	7.41E-01	8.12E-01	8.43E-01	1.01E+00	1.04E+00	1.04E-03	6.59E-02	1.81E-01	8.40E-02	4.80E-01
Delaware	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
Delaware	All Rural Counties	N/A	R	Beryllium Compounds	1.36E-06	1.49E-06	1.75E-06	2.34E-06	2.69E-06	3.13E-06	4.39E-06	5.53E-06	3.47E-07	2.29E-06	0.00E+00	5.29E-08	0.00E+00
Delaware	All Rural Counties	N/A	R	1,3-Butadiene	6.51E-03	7.15E-03	8.25E-03	1.23E-02	3.03E-02	2.85E-02	6.15E-02	9.38E-02	4.63E-03	2.27E-03	1.87E-02	4.74E-03	0.00E+00
Delaware	All Rural Counties	N/A	R	Cadmium Compounds	2.23E-06	2.58E-06	3.31E-06	4.40E-06	5.35E-06	6.26E-06	9.93E-06	1.26E-05	1.68E-06	3.53E-06	0.00E+00	1.41E-07	0.00E+00
Delaware	All Rural Counties	N/A	R	Carbon Disulfide	4.75E-02	4.76E-02	4.80E-02	4.84E-02	4.90E-02	4.91E-02	5.00E-02	5.11E-02	7.14E-05	1.94E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	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	0.00E+00	1.54E-04	0.00E+00	0.00E+00	8.80E-01
Delaware	All Rural Counties	N/A	R	Chloroform	8.36E-02	8.37E-02	8.39E-02	8.46E-02	8.51E-02	8.54E-02	8.61E-02	8.71E-02	7.92E-07	2.11E-03	0.00E+00	0.00E+00	8.30E-02
Delaware	All Rural Counties	N/A	R	Chromium Compounds (includes Hexavalent)	1.44E-05	1.51E-05	1.77E-05	2.39E-05	3.92E-05	3.53E-05	6.15E-05	1.33E-04	6.82E-06	1.38E-05	1.74E-05	1.20E-06	0.00E+00
Delaware	All Rural Counties	N/A	R	Chromium VI	4.86E-06	5.66E-06	6.46E-06	7.83E-06	1.27E-05	1.21E-05	2.00E-05	2.40E-05	1.30E-06	4.10E-06	6.94E-06	4.06E-07	0.00E+00
Delaware	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
Delaware	All Rural Counties	N/A	R	1,4-Dichlorobenzene	4.27E-03	5.43E-03	6.30E-03	8.72E-03	1.06E-02	1.23E-02	1.99E-02	2.61E-02	1.92E-04	1.04E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	1,3-Dichloropropene	6.87E-03	1.04E-02	1.21E-02	1.67E-02	2.05E-02	2.40E-02	3.92E-02	5.29E-02	0.00E+00	2.05E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	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	4.16E-07	0.00E+00	0.00E+00	7.70E-03
Delaware	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	6.11E-02	3.56E-06	2.00E-05	0.00E+00	0.00E+00	6.10E-02
Delaware	All Rural Counties	N/A	R	Ethylene Oxide	1.99E-04	2.15E-04	2.90E-04	5.20E-04	7.49E-04	8.35E-04	1.25E-03	1.44E-03	4.51E-05	7.04E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Formaldehyde	3.68E-01	3.78E-01	3.95E-01	4.30E-01	5.05E-01	5.13E-01	6.20E-01	7.64E-01	5.14E-03	2.82E-02	1.58E-01	6.36E-02	2.50E-01
Delaware	All Rural Counties	N/A	R	Hexachlorobenzene	9.32E-05	9.33E-05	9.34E-05	9.35E-05	9.35E-05	9.37E-05	9.38E-05	9.39E-05	0.00E+00	5.35E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	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	7.36E-08	0.00E+00	0.00E+00	1.80E-03
Delaware	All Rural Counties	N/A	R	Hexamethylene Diisocyanate	0.00E+00	6.35E-09	1.03E-08	2.78E-06	1.80E-05	1.16E-05	2.23E-05	2.57E-05	7.40E-08	1.79E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Hydrazine	4.91E-09	9.07E-09	1.79E-08	5.61E-08	9.43E-08	1.03E-07	2.02E-07	2.53E-07	2.11E-09	9.22E-08	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Lead Compounds	8.20E-05	1.12E-04	1.95E-04	3.60E-04	4.00E-04	5.45E-04	6.94E-04	8.78E-04	9.71E-06	4.48E-05	0.00E+00	3.46E-04	0.00E+00
Delaware	All Rural Counties	N/A	R	Manganese Compounds	1.42E-05	1.91E-05	2.66E-05	3.41E-05	4.38E-05	5.23E-05	6.72E-05	7.85E-05	1.23E-05	2.43E-05	5.64E-06	1.51E-06	0.00E+00
Delaware	All Rural Counties	N/A	R	Mercury Compounds	1.52E-03	1.52E-03	1.52E-03	1.53E-03	1.57E-03	1.56E-03	1.69E-03	1.71E-03	9.33E-07	2.98E-05	3.07E-05	5.25E-06	1.50E-03
Delaware	All Rural Counties	N/A	R	Methylene Chloride	1.63E-01	1.65E-01	1.72E-01	1.78E-01	1.90E-01	1.96E-01	2.18E-01	2.70E-01	9.32E-04	3.87E-02	0.00E+00	0.00E+00	1.50E-01
Delaware	All Rural Counties	N/A	R	Nickel Compounds	5.63E-05	6.68E-05	8.20E-05	1.31E-04	1.60E-04	1.91E-04	3.11E-04	3.85E-04	6.37E-05	6.64E-05	1.31E-05	1.71E-05	0.00E+00
Delaware	All Rural Counties	N/A	R	Perchloroethylene	1.44E-01	1.45E-01	1.46E-01	1.50E-01	1.55E-01	1.58E-01	1.70E-01	1.78E-01	5.39E-07	1.46E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	All Rural Counties	N/A	R	Polychlorinated Biphenyls	4.00E-04	4.03E-04	4.15E-04	4.27E-04	4.35E-04	4.49E-04	4.72E-04	4.87E-04	7.61E-10	5.54E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	All Rural Counties	N/A	R	Polycyclic Organic Matter	1.02E-02	1.10E-02	1.28E-02	1.73E-02	2.12E-02	2.44E-02	3.70E-02	3.86E-02	1.10E-04	1.48E-02	5.48E-03	8.05E-04	0.00E+00

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

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
Delaware	All Rural Counties	N/A	R	7-PAH	2.58E-04	2.99E-04	3.94E-04	5.45E-04	5.73E-04	6.88E-04	8.25E-04	9.68E-04	2.15E-07	5.06E-04	4.23E-05	2.52E-05	0.00E+00
Delaware	All Rural Counties	N/A	R	Propylene Dichloride	3.74E-06	3.97E-06	5.17E-06	7.55E-06	1.15E-05	1.30E-05	1.97E-05	3.71E-05	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Quinoline	8.66E-08	1.31E-07	1.83E-07	3.34E-07	4.35E-07	5.28E-07	7.49E-07	1.12E-06	0.00E+00	4.35E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	1,1,2,2-Tetrachloroethane	1.48E-05	1.71E-05	2.09E-05	2.71E-05	5.81E-05	6.14E-05	9.87E-05	1.57E-04	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	All Rural Counties	N/A	R	Trichloroethylene	8.17E-02	8.20E-02	8.28E-02	8.94E-02	1.09E-01	1.23E-01	1.53E-01	2.18E-01	2.33E-02	4.85E-03	0.00E+00	0.00E+00	8.10E-02
Delaware	All Rural Counties	N/A	R	Vinyl Chloride	5.75E-05	6.46E-05	8.24E-05	1.54E-04	2.19E-03	6.09E-04	9.66E-03	1.07E-02	2.00E-03	1.85E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Acetaldehyde	1.36E-01	1.63E-01	2.49E-01	2.99E-01	3.13E-01	3.87E-01	4.74E-01	4.84E-01	1.08E-01	8.62E-03	1.55E-01	4.12E-02	0.00E+00
Delaware	Kent County	10001	R	Acrolein	1.82E-02	2.12E-02	2.41E-02	3.69E-02	4.01E-02	5.05E-02	6.57E-02	7.81E-02	1.02E-02	8.60E-03	1.61E-02	5.28E-03	0.00E+00
Delaware	Kent County	10001	R	Acrylonitrile	7.07E-04	7.57E-04	1.27E-03	2.36E-03	4.09E-03	4.61E-03	8.55E-03	1.27E-02	3.94E-03	1.48E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Arsenic Compounds	1.92E-05	2.17E-05	2.47E-05	3.92E-05	4.23E-05	5.22E-05	7.16E-05	8.61E-05	2.89E-06	7.10E-06	2.52E-05	7.18E-06	0.00E+00
Delaware	Kent County	10001	R	Benzene	6.22E-01	6.42E-01	6.72E-01	7.62E-01	8.05E-01	9.14E-01	1.02E+00	1.07E+00	2.11E-03	5.97E-02	1.86E-01	7.68E-02	4.80E-01
Delaware	Kent County	10001	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
Delaware	Kent County	10001	R	Beryllium Compounds	1.04E-06	1.36E-06	1.68E-06	2.74E-06	3.09E-06	4.22E-06	5.53E-06	6.89E-06	2.10E-07	2.81E-06	0.00E+00	7.59E-08	0.00E+00
Delaware	Kent County	10001	R	1,3-Butadiene	7.08E-03	9.62E-03	1.13E-02	2.54E-02	3.85E-02	5.71E-02	8.20E-02	1.13E-01	9.49E-03	4.57E-03	1.97E-02	4.66E-03	0.00E+00
Delaware	Kent County	10001	R	Cadmium Compounds	1.82E-06	2.23E-06	2.80E-06	6.16E-06	6.45E-06	9.57E-06	1.26E-05	1.43E-05	2.08E-06	4.21E-06	0.00E+00	1.54E-07	0.00E+00
Delaware	Kent County	10001	R	Carbon Disulfide	4.74E-02	4.75E-02	4.77E-02	4.81E-02	4.90E-02	4.84E-02	4.94E-02	6.00E-02	1.44E-04	1.83E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	Kent County	10001	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	2.12E-04	0.00E+00	0.00E+00	8.80E-01
Delaware	Kent County	10001	R	Chloroform	8.35E-02	8.36E-02	8.38E-02	8.40E-02	8.49E-02	8.46E-02	8.49E-02	8.59E-02	1.63E-06	1.93E-03	0.00E+00	0.00E+00	8.30E-02
Delaware	Kent County	10001	R	Chromium Compounds (includes Hexavalent)	1.10E-05	1.44E-05	1.73E-05	3.16E-05	4.84E-05	5.36E-05	9.64E-05	2.13E-04	7.76E-06	2.20E-05	1.75E-05	1.13E-06	0.00E+00
Delaware	Kent County	10001	R	Chromium VI	4.29E-06	5.66E-06	6.23E-06	1.06E-05	1.46E-05	1.68E-05	2.24E-05	6.54E-05	1.56E-06	5.69E-06	6.95E-06	3.86E-07	0.00E+00
Delaware	Kent County	10001	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
Delaware	Kent County	10001	R	1,4-Dichlorobenzene	3.59E-03	4.65E-03	6.30E-03	1.17E-02	1.28E-02	1.63E-02	2.61E-02	2.93E-02	3.96E-04	1.24E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	1,3-Dichloropropene	6.77E-03	8.77E-03	1.15E-02	2.18E-02	2.48E-02	3.29E-02	5.29E-02	5.76E-02	0.00E+00	2.48E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	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	3.15E-07	0.00E+00	0.00E+00	7.70E-03
Delaware	Kent County	10001	R	Ethylene Dichloride	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.11E-02	6.11E-02	6.34E-06	1.61E-05	0.00E+00	0.00E+00	6.10E-02
Delaware	Kent County	10001	R	Ethylene Oxide	1.36E-04	1.99E-04	2.25E-04	2.93E-04	7.95E-04	6.07E-04	1.44E-03	1.67E-03	9.28E-05	7.03E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Formaldehyde	3.52E-01	3.79E-01	3.96E-01	4.88E-01	5.05E-01	5.61E-01	6.90E-01	7.90E-01	9.98E-03	3.30E-02	1.55E-01	5.66E-02	2.50E-01
Delaware	Kent County	10001	R	Hexachlorobenzene	9.32E-05	9.32E-05	9.33E-05	9.34E-05	9.35E-05	9.36E-05	9.38E-05	9.38E-05	0.00E+00	4.62E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	Kent County	10001	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	1.09E-07	0.00E+00	0.00E+00	1.80E-03
Delaware	Kent County	10001	R	Hexamethylene Diisocyanate	1.77E-06	2.48E-06	6.01E-06	1.18E-05	3.60E-05	2.02E-05	2.57E-05	6.03E-05	1.52E-07	3.59E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Hydrazine	2.91E-09	4.91E-09	1.18E-08	3.33E-08	9.13E-08	7.68E-08	1.45E-07	2.37E-07	4.35E-09	8.69E-08	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Lead Compounds	8.20E-05	1.11E-04	1.95E-04	2.78E-04	3.06E-04	3.71E-04	5.61E-04	6.43E-04	9.70E-06	6.92E-05	0.00E+00	2.27E-04	0.00E+00
Delaware	Kent County	10001	R	Manganese Compounds	9.84E-06	1.42E-05	2.01E-05	3.40E-05	4.78E-05	6.10E-05	7.62E-05	1.90E-04	1.28E-05	2.79E-05	5.67E-06	1.48E-06	0.00E+00
Delaware	Kent County	10001	R	Mercury Compounds	1.52E-03	1.52E-03	1.53E-03	1.56E-03	1.59E-03	1.66E-03	1.71E-03	1.71E-03	1.51E-06	5.36E-05	2.77E-05	5.88E-06	1.50E-03
Delaware	Kent County	10001	R	Methylene Chloride	1.61E-01	1.63E-01	1.69E-01	1.87E-01	2.00E-01	2.06E-01	2.70E-01	3.20E-01	4.14E-04	4.94E-02	0.00E+00	0.00E+00	1.50E-01
Delaware	Kent County	10001	R	Nickel Compounds	4.79E-05	5.63E-05	7.32E-05	1.49E-04	1.88E-04	2.46E-04	3.39E-04	4.52E-04	8.34E-05	7.49E-05	1.31E-05	1.62E-05	0.00E+00
Delaware	Kent County	10001	R	Perchloroethylene	1.44E-01	1.44E-01	1.46E-01	1.51E-01	1.57E-01	1.66E-01	1.78E-01	1.87E-01	1.35E-07	1.73E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	Kent County	10001	R	Polychlorinated Biphenyls	3.97E-04	4.00E-04	4.07E-04	4.20E-04	4.27E-04	4.44E-04	4.68E-04	4.74E-04	1.57E-09	4.65E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	Kent County	10001	R	Polycyclic Organic Matter	8.70E-03	1.03E-02	1.24E-02	1.90E-02	2.24E-02	3.19E-02	3.81E-02	4.25E-02	2.25E-04	1.60E-02	5.41E-03	7.92E-04	0.00E+00
Delaware	Kent County	10001	R	7-PAH	2.37E-04	2.60E-04	3.09E-04	4.65E-04	4.72E-04	5.85E-04	7.42E-04	8.09E-04	4.27E-07	4.08E-04	3.99E-05	2.27E-05	0.00E+00
Delaware	Kent County	10001	R	Propylene Dichloride	3.52E-06	3.74E-06	4.33E-06	5.23E-06	8.76E-06	6.33E-06	9.00E-06	4.42E-05	0.00E+00	8.76E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Quinoline	5.70E-08	8.66E-08	1.43E-07	2.05E-07	3.41E-07	2.59E-07	4.89E-07	7.13E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	1,1,2,2-Tetrachloroethane	1.66E-05	1.78E-05	1.95E-05	2.22E-05	3.58E-05	2.74E-05	3.91E-05	5.23E-05	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Kent County	10001	R	Trichloroethylene	8.21E-02	8.23E-02	8.28E-02	8.38E-02	8.95E-02	8.94E-02	9.19E-02	9.39E-02	0.00E+00	8.52E-03	0.00E+00	0.00E+00	8.10E-02
Delaware	Kent County	10001	R	Vinyl Chloride	6.52E-05	7.01E-05	8.23E-05	1.53E-04	4.28E-03	9.35E-03	1.07E-02	1.40E-02	4.12E-03	1.57E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Acetaldehyde	2.40E-01	3.25E-01	4.27E-01	6.19E-01	7.70E-01	1.01E+00	1.39E+00	1.60E+00	4.17E-03	1.78E-02	5.86E-01	1.62E-01	0.00E+00
Delaware	New Castle County	10003	U	Acrolein	3.94E-02	5.03E-02	6.35E-02	8.60E-02	8.84E-02	1.12E-01	1.27E-01	1.39E-01	1.92E-03	1.14E-02	6.04E-02	1.47E-02	0.00E+00
Delaware	New Castle County	10003	U	Acrylonitrile	2.21E-04	2.31E-04	2.69E-04	4.35E-04	6.09E-04	7.09E-04	1.13E-03	1.46E-03	1.08E-04	5.01E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Arsenic Compounds	5.83E-05	8.30E-05	1.21E-04	1.84E-04	2.01E-04	2.72E-04	3.34E-04	3.77E-04	6.72E-05	3.62E-05	7.47E-05	2.34E-05	0.00E+00
Delaware	New Castle County	10003	U	Benzene	8.14E-01	9.51E-01	1.11E+00	1.35E+00	1.50E+00	1.79E+00	2.15E+00	2.30E+00	5.62E-02	1.10E-01	6.68E-01	1.88E-01	4.80E-01
Delaware	New Castle County	10003	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
Delaware	New Castle County	10003	U	Beryllium Compounds	6.09E-06	9.91E-06	1.40E-05	2.01E-05	2.22E-05	2.87E-05	3.74E-05	3.99E-05	4.43E-06	1.74E-05	0.00E+00	4.08E-07	0.00E+00
Delaware	New Castle County	10003	U	1,3-Butadiene	1.51E-02	2.33E-02	3.52E-02	5.75E-02	8.38E-02	1.11E-01	1.68E-01	2.12E-01	1.20E-03	1.47E-04	6.54E-02	1.71E-02	0.00E+00
Delaware	New Castle County	10003	U	Cadmium Compounds	3.70E-05	4.54E-05	5.84E-05	7.95E-05	8.42E-05	1.09E-04	1.24E-04	1.39E-04	5.86E-05	2.44E-05	0.00E+00	1.16E-06	0.00E+00
Delaware	New Castle County	10003	U	Carbon Disulfide	5.03E-02	5.05E-02	5.21E-02	5.43E-02	5.63E-02	5.84E-02	6.27E-02	6.72E-02	4.34E-03	4.95E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	New Castle County	10003	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	0.00E+00	2.37E-04	0.00E+00	0.00E+00	8.80E-01
Delaware	New Castle County	10003	U	Chloroform	8.71E-02	9.11E-02	9.33E-02	9.60E-02	9.74E-02	1.01E-01	1.05E-01	1.09E-01	1.12E-03	1.33E-02	0.00E+00	0.00E+00	8.30E-02
Delaware	New Castle County	10003	U	Chromium Compounds (includes Hexavalent)	4.65E-04	5.76E-04	7.63E-04	1.77E-03	2.89E-03	2.84E-03	5.01E-03	5.55E-03	4.19E-04	2.41E-03	6.29E-05	5.43E-06	0.00E+00
Delaware	New Castle County	10003	U	Chromium VI	9.13E-05	1.28E-04	1.80E-04	3.61E-04	7.91E-04	7.03E-04	1.43E-03	1.61E-03	2.49E-05	7.40E-04	2.51E-05	1.85E-06	0.00E+00
Delaware	New Castle County	10003	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
Delaware	New Castle County	10003	U	1,4-Dichlorobenzene	1.95E-02	3.37E-02	4.39E-02	5.28E-02	6.53E-02	7.08E-02	9.90E-02	1.17E-01	1.71E-02	4.82E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	1,3-Dichloropropene	2.61E-02	5.30E-02	6.40E-02	8.27E-02	9.54E-02	1.11E-01	1.60E-01	2.03E-01	7.55E-06	9.54E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	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	0.00E+00	1.27E-06	0.00E+00	0.00E+00	7.70E-03
Delaware	New Castle County	10003	U	Ethylene Dichloride	6.41E-02	6.51E-02	6.68E-02	7.03E-02	7.04E-02	7.29E-02	7.69E-02	7.97E-02	8.50E-03	8.89E-04	0.00E+00	0.00E+00	6.10E-02

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

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
Delaware	New Castle County	10003	U	Ethylene Oxide	3.08E-03	3.98E-03	7.04E-03	1.29E-02	1.53E-02	1.88E-02	2.51E-02	3.18E-02	1.04E-02	4.90E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Formaldehyde	5.65E-01	7.38E-01	9.11E-01	1.13E+00	1.43E+00	1.60E+00	2.03E+00	2.43E+00	2.97E-01	5.89E-02	5.68E-01	2.55E-01	2.50E-01
Delaware	New Castle County	10003	U	Hexachlorobenzene	9.36E-05	9.36E-05	9.37E-05	9.38E-05	9.39E-05	9.39E-05	9.41E-05	9.42E-05	7.52E-08	8.06E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	New Castle County	10003	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	5.28E-07	0.00E+00	0.00E+00	1.80E-03
Delaware	New Castle County	10003	U	Hexamethylene Diisocyanate	1.25E-04	1.42E-04	2.07E-04	5.92E-04	1.48E-03	1.12E-03	1.94E-03	2.56E-03	1.47E-03	9.77E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Hydrazine	1.74E-07	2.17E-07	3.70E-07	5.95E-07	2.49E-06	1.28E-06	3.86E-06	6.07E-06	2.14E-06	3.49E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Lead Compounds	9.10E-04	9.82E-04	1.18E-03	1.61E-03	1.97E-03	2.02E-03	3.07E-03	4.88E-03	2.77E-04	5.70E-04	0.00E+00	1.12E-03	0.00E+00
Delaware	New Castle County	10003	U	Manganese Compounds	3.61E-04	4.99E-04	6.75E-04	1.46E-03	2.79E-03	2.58E-03	4.95E-03	5.55E-03	2.30E-04	2.53E-03	2.02E-05	9.42E-06	0.00E+00
Delaware	New Castle County	10003	U	Mercury Compounds	1.79E-03	1.82E-03	1.90E-03	2.02E-03	2.21E-03	2.14E-03	2.44E-03	2.73E-03	7.35E-05	5.45E-04	7.38E-05	2.14E-05	1.50E-03
Delaware	New Castle County	10003	U	Methylene Chloride	2.38E-01	2.68E-01	3.12E-01	3.65E-01	4.16E-01	4.44E-01	6.06E-01	7.73E-01	2.58E-02	2.40E-01	0.00E+00	0.00E+00	1.50E-01
Delaware	New Castle County	10003	U	Nickel Compounds	6.52E-04	8.10E-04	1.42E-03	2.42E-03	2.72E-03	3.46E-03	4.62E-03	5.42E-03	1.41E-03	1.08E-03	4.67E-05	1.84E-04	0.00E+00
Delaware	New Castle County	10003	U	Perchloroethylene	1.56E-01	1.69E-01	1.82E-01	2.04E-01	2.01E-01	2.16E-01	2.36E-01	2.40E-01	1.16E-04	6.11E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	New Castle County	10003	U	Polychlorinated Biphenyls	4.11E-04	4.20E-04	4.25E-04	4.31E-04	4.30E-04	4.35E-04	4.43E-04	4.47E-04	2.09E-08	5.03E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	New Castle County	10003	U	Polycyclic Organic Matter	2.50E-02	3.98E-02	5.40E-02	7.53E-02	8.15E-02	1.06E-01	1.36E-01	1.50E-01	8.33E-03	5.03E-02	1.92E-02	3.64E-03	0.00E+00
Delaware	New Castle County	10003	U	7-PAH	4.62E-04	6.63E-04	8.22E-04	9.06E-04	9.16E-04	1.00E-03	1.22E-03	1.42E-03	7.24E-06	7.18E-04	1.28E-04	6.22E-05	0.00E+00
Delaware	New Castle County	10003	U	Propylene Dichloride	8.92E-06	1.15E-05	1.42E-05	2.21E-05	3.46E-05	3.50E-05	6.36E-05	9.90E-05	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Quinoline	2.83E-07	3.81E-07	4.96E-07	8.52E-07	1.32E-06	1.16E-06	2.37E-06	3.25E-06	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	1,1,2,2-Tetrachloroethane	4.95E-05	5.81E-05	6.68E-05	1.15E-04	1.93E-04	1.75E-04	3.55E-04	6.19E-04	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	New Castle County	10003	U	Trichloroethylene	8.37E-02	8.56E-02	8.77E-02	9.23E-02	1.05E-01	1.24E-01	1.41E-01	1.53E-01	1.28E-02	1.11E-02	0.00E+00	0.00E+00	8.10E-02
Delaware	New Castle County	10003	U	Vinyl Chloride	1.45E-02	1.86E-02	2.86E-02	3.51E-02	3.83E-02	4.26E-02	5.47E-02	6.65E-02	3.29E-02	5.42E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Acetaldehyde	1.03E-01	1.22E-01	1.30E-01	1.58E-01	2.71E-01	2.08E-01	2.75E-01	3.72E-01	5.93E-03	6.29E-03	1.96E-01	6.34E-02	0.00E+00
Delaware	Sussex County	10005	R	Acrolein	1.91E-02	1.96E-02	2.06E-02	2.21E-02	2.89E-02	2.76E-02	3.80E-02	5.53E-02	3.81E-04	5.12E-03	1.72E-02	6.12E-03	0.00E+00
Delaware	Sussex County	10005	R	Acrylonitrile	9.07E-05	1.05E-04	1.31E-04	2.08E-04	2.88E-04	2.91E-04	7.11E-04	8.30E-04	8.38E-05	2.04E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Arsenic Compounds	2.30E-05	2.45E-05	2.89E-05	3.15E-05	4.91E-05	3.90E-05	5.17E-05	7.68E-05	9.20E-06	5.45E-06	2.87E-05	5.81E-06	0.00E+00
Delaware	Sussex County	10005	R	Benzene	6.48E-01	6.53E-01	6.80E-01	7.12E-01	8.19E-01	7.83E-01	9.54E-01	1.02E+00	3.06E-05	7.17E-02	1.76E-01	9.09E-02	4.80E-01
Delaware	Sussex County	10005	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
Delaware	Sussex County	10005	R	Beryllium Compounds	1.50E-06	1.64E-06	1.87E-06	2.16E-06	2.31E-06	2.59E-06	2.99E-06	3.63E-06	4.76E-07	1.80E-06	0.00E+00	3.11E-08	0.00E+00
Delaware	Sussex County	10005	R	1,3-Butadiene	6.33E-03	6.82E-03	7.84E-03	9.02E-03	2.26E-02	1.37E-02	2.17E-02	2.89E-02	3.03E-05	1.03E-04	1.76E-02	4.81E-03	0.00E+00
Delaware	Sussex County	10005	R	Cadmium Compounds	2.83E-06	3.01E-06	3.42E-06	3.94E-06	4.32E-06	4.82E-06	5.69E-06	7.30E-06	1.30E-06	2.89E-06	0.00E+00	1.30E-07	0.00E+00
Delaware	Sussex County	10005	R	Carbon Disulfide	4.78E-02	4.81E-02	4.85E-02	4.88E-02	4.90E-02	4.95E-02	5.06E-02	5.11E-02	3.03E-06	2.04E-03	0.00E+00	0.00E+00	4.70E-02
Delaware	Sussex County	10005	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	9.93E-05	0.00E+00	0.00E+00	8.80E-01
Delaware	Sussex County	10005	R	Chloroform	8.38E-02	8.39E-02	8.45E-02	8.53E-02	8.53E-02	8.58E-02	8.68E-02	8.72E-02	0.00E+00	2.28E-03	0.00E+00	0.00E+00	8.30E-02
Delaware	Sussex County	10005	R	Chromium Compounds (includes Hexavalent)	1.48E-05	1.57E-05	1.82E-05	2.17E-05	3.06E-05	2.52E-05	3.20E-05	4.72E-05	5.93E-06	6.07E-06	1.73E-05	1.25E-06	0.00E+00
Delaware	Sussex County	10005	R	Chromium VI	5.41E-06	5.76E-06	6.47E-06	7.08E-06	1.10E-05	8.66E-06	1.21E-05	1.55E-05	1.05E-06	2.59E-06	6.92E-06	4.26E-07	0.00E+00
Delaware	Sussex County	10005	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
Delaware	Sussex County	10005	R	1,4-Dichlorobenzene	5.26E-03	5.49E-03	6.35E-03	7.56E-03	8.42E-03	9.90E-03	1.17E-02	1.54E-02	0.00E+00	8.42E-03	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	1,3-Dichloropropene	1.00E-02	1.07E-02	1.22E-02	1.45E-02	1.64E-02	1.96E-02	2.31E-02	3.04E-02	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	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	5.11E-07	0.00E+00	0.00E+00	7.70E-03
Delaware	Sussex County	10005	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	9.33E-07	2.36E-05	0.00E+00	0.00E+00	6.10E-02
Delaware	Sussex County	10005	R	Ethylene Oxide	3.74E-04	4.09E-04	5.15E-04	6.84E-04	7.06E-04	8.39E-04	1.16E-03	1.27E-03	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Formaldehyde	3.69E-01	3.78E-01	3.94E-01	4.03E-01	5.06E-01	4.55E-01	5.13E-01	6.20E-01	5.73E-04	2.37E-02	1.61E-01	7.02E-02	2.50E-01
Delaware	Sussex County	10005	R	Hexachlorobenzene	9.34E-05	9.34E-05	9.34E-05	9.36E-05	9.36E-05	9.37E-05	9.39E-05	9.43E-05	0.00E+00	6.03E-07	0.00E+00	0.00E+00	9.30E-05
Delaware	Sussex County	10005	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	4.01E-08	0.00E+00	0.00E+00	1.80E-03
Delaware	Sussex County	10005	R	Hexamethylene Diisocyanate	0.00E+00	0.00E+00	6.73E-09	1.04E-08	9.44E-07	1.51E-06	3.17E-06	5.07E-06	0.00E+00	9.44E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Hydrazine	9.33E-09	1.16E-08	2.61E-08	9.07E-08	9.72E-08	1.19E-07	2.48E-07	2.92E-07	0.00E+00	9.72E-08	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Lead Compounds	8.07E-05	1.12E-04	2.02E-04	4.64E-04	4.89E-04	5.87E-04	8.50E-04	1.45E-03	9.72E-06	2.17E-05	0.00E+00	4.58E-04	0.00E+00
Delaware	Sussex County	10005	R	Manganese Compounds	2.34E-05	2.57E-05	2.89E-05	3.41E-05	3.99E-05	4.56E-05	5.53E-05	6.14E-05	1.18E-05	2.10E-05	5.61E-06	1.54E-06	0.00E+00
Delaware	Sussex County	10005	R	Mercury Compounds	1.52E-03	1.52E-03	1.52E-03	1.53E-03	1.55E-03	1.53E-03	1.55E-03	1.57E-03	3.88E-07	7.22E-06	3.36E-05	4.66E-06	1.50E-03
Delaware	Sussex County	10005	R	Methylene Chloride	1.69E-01	1.71E-01	1.73E-01	1.77E-01	1.80E-01	1.86E-01	1.96E-01	1.98E-01	1.42E-03	2.86E-02	0.00E+00	0.00E+00	1.50E-01
Delaware	Sussex County	10005	R	Nickel Compounds	6.75E-05	7.74E-05	8.30E-05	1.27E-04	1.34E-04	1.62E-04	2.09E-04	2.60E-04	4.50E-05	5.83E-05	1.31E-05	1.80E-05	0.00E+00
Delaware	Sussex County	10005	R	Perchloroethylene	1.45E-01	1.45E-01	1.46E-01	1.49E-01	1.52E-01	1.56E-01	1.67E-01	1.72E-01	9.21E-07	1.20E-02	0.00E+00	0.00E+00	1.40E-01
Delaware	Sussex County	10005	R	Polychlorinated Biphenyls	4.14E-04	4.17E-04	4.21E-04	4.39E-04	4.44E-04	4.57E-04	4.87E-04	5.34E-04	0.00E+00	6.38E-05	0.00E+00	0.00E+00	3.80E-04
Delaware	Sussex County	10005	R	Polycyclic Organic Matter	1.06E-02	1.14E-02	1.42E-02	1.62E-02	2.01E-02	2.06E-02	2.65E-02	2.87E-02	1.14E-06	1.38E-02	5.54E-03	8.17E-04	0.00E+00
Delaware	Sussex County	10005	R	7-PAH	3.70E-04	4.25E-04	4.91E-04	6.30E-04	6.69E-04	7.57E-04	9.68E-04	1.26E-03	1.51E-08	5.97E-04	4.45E-05	2.75E-05	0.00E+00
Delaware	Sussex County	10005	R	Propylene Dichloride	5.65E-06	6.00E-06	8.64E-06	1.20E-05	1.41E-05	1.58E-05	2.16E-05	2.95E-05	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Quinoline	1.62E-07	2.44E-07	3.60E-07	4.56E-07	5.23E-07	6.41E-07	9.67E-07	1.13E-06	0.00E+00	5.23E-07	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	1,1,2,2-Tetrachloroethane	1.34E-05	1.48E-05	2.68E-05	5.56E-05	7.92E-05	9.03E-05	1.09E-04	2.49E-04	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00
Delaware	Sussex County	10005	R	Trichloroethylene	8.17E-02	8.17E-02	8.27E-02	1.18E-01	1.28E-01	1.43E-01	2.07E-01	2.39E-01	4.53E-02	1.39E-03	0.00E+00	0.00E+00	8.10E-02
Delaware	Sussex County	10005	R	Vinyl Chloride	3.86E-05	5.75E-05	9.07E-05	1.54E-04	2.11E-04	2.38E-04	2.89E-04	6.09E-04	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00