

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Washington

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

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.
[For a discussion of limitations please see http://www.epa.gov/ttn/atw/nata/natsalim2.html](http://www.epa.gov/ttn/atw/nata/natsalim2.html)
- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Washington												
State	County	FIPS	Urban or Rural	1,1,2,2-TCA	1,3-Butadiene	1,3-Dichloropropene	Acetaldehyde	Acrolein	Acrylonitrile	Arsenic	Benzene	Beryllium	Cadmium	Carbon Tetrachloride	Chloroform	Chromium
National	All	99999	-	2.33E-04	4.79E-02	5.20E-02	4.82E-01	7.21E-02	5.62E-04	4.83E-05	1.19E+00	8.35E-06	3.90E-05	6.41E-01	6.90E-02	5.15E-04
National	All Urban Counties	99998	U	3.50E-04	5.93E-02	6.60E-02	6.45E-01	8.89E-02	8.39E-04	6.25E-05	1.41E+00	1.08E-05	5.90E-05	6.41E-01	6.96E-02	8.25E-04
National	All Rural Counties	99998	R	3.62E-05	1.30E-02	7.09E-03	1.15E-01	3.03E-02	7.64E-05	1.01E-05	6.01E-01	1.09E-06	4.79E-06	6.40E-01	6.80E-02	5.05E-05
Washington	State Total	53000	-	4.17E-05	3.97E-02	5.17E-02	4.66E-01	6.98E-02	8.99E-05	3.78E-05	1.41E+00	5.78E-06	1.65E-05	6.40E-01	6.82E-02	3.71E-04
Washington	State Urban Counties	53000	U	4.94E-05	4.43E-02	6.00E-02	5.58E-01	7.51E-02	1.04E-04	4.55E-05	1.72E+00	6.71E-06	1.86E-05	6.40E-01	6.83E-02	5.27E-04
Washington	State Rural Counties	53000	R	1.84E-05	1.63E-02	8.52E-03	9.50E-02	3.65E-02	3.95E-05	8.05E-06	5.90E-01	9.16E-07	3.66E-06	6.39E-01	6.80E-02	2.73E-05
Washington	Adams County	53001	R	9.99E-06	4.83E-03	1.48E-02	6.76E-02	1.05E-02	2.10E-05	1.19E-05	4.98E-01	3.01E-06	5.18E-06	6.42E-01	6.78E-02	2.31E-05
Washington	Asotin County	53003	R	1.36E-04	2.38E-02	5.74E-02	2.00E-01	4.13E-02	2.48E-04	9.19E-05	7.23E-01	6.46E-06	2.98E-05	6.43E-01	6.82E-02	5.50E-04
Washington	Benton County	53005	U	3.81E-05	3.01E-02	3.72E-02	1.80E-01	3.22E-02	7.19E-05	2.59E-05	7.24E-01	4.89E-06	1.10E-05	6.39E-01	6.81E-02	6.61E-05
Washington	Chelan County	53007	U	1.89E-05	2.54E-02	7.88E-03	8.82E-02	5.87E-02	3.75E-05	9.19E-06	5.91E-01	8.64E-07	3.37E-06	6.42E-01	6.78E-02	2.09E-05
Washington	Clallam County	53009	R	1.36E-05	2.44E-02	1.57E-02	1.27E-01	4.65E-02	2.94E-05	9.28E-06	6.53E-01	1.15E-06	3.36E-06	6.38E-01	6.83E-02	3.87E-05
Washington	Clark County	53011	U	1.35E-04	5.66E-02	8.22E-02	8.70E-01	1.18E-01	3.06E-04	1.01E-04	1.77E+00	1.14E-05	4.48E-05	6.40E-01	6.96E-02	9.13E-04
Washington	Columbia County	53013	U	6.23E-06	4.64E-03	6.19E-04	1.74E-02	1.06E-02	1.17E-05	2.49E-07	4.33E-01	6.12E-08	2.16E-07	6.39E-01	6.77E-02	4.83E-06
Washington	Cowlitz County	53015	U	5.38E-05	4.09E-02	3.80E-02	2.92E-01	7.21E-02	1.31E-04	8.69E-05	9.80E-01	1.10E-05	4.00E-05	6.39E-01	7.18E-02	2.97E-04
Washington	Douglas County	53017	R	2.69E-05	2.30E-02	3.19E-02	1.34E-01	7.47E-02	5.14E-05	1.74E-05	6.58E-01	2.85E-06	6.69E-06	6.44E-01	6.78E-02	4.18E-05
Washington	Ferry County	53019	R	5.44E-08	4.91E-03	2.86E-04	1.64E-02	1.52E-02	3.62E-07	3.41E-06	4.43E-01	2.23E-08	2.63E-07	6.39E-01	6.78E-02	4.21E-06
Washington	Franklin County	53021	U	7.17E-05	2.82E-02	2.44E-02	1.90E-01	5.13E-02	1.30E-04	2.38E-05	7.22E-01	4.19E-06	1.04E-05	6.39E-01	6.79E-02	6.49E-05
Washington	Garfield County	53023	R	2.83E-05	8.72E-03	1.97E-03	5.04E-02	2.16E-02	5.20E-05	1.48E-06	4.79E-01	2.01E-07	7.51E-07	6.27E-01	6.83E-02	8.08E-06
Washington	Grant County	53025	R	1.78E-05	4.38E-03	5.09E-03	5.36E-02	1.30E-02	3.49E-05	1.75E-06	4.76E-01	5.26E-07	8.71E-07	6.42E-01	6.79E-02	9.15E-06
Washington	Grays Harbor County	53027	U	6.70E-07	2.98E-02	8.55E-03	1.07E-01	5.32E-02	5.53E-06	4.27E-06	6.58E-01	7.68E-07	2.05E-06	6.42E-01	6.79E-02	1.83E-05
Washington	Island County	53029	U	4.16E-05	1.39E-02	1.50E-02	2.18E-01	3.32E-02	7.11E-05	1.31E-05	7.76E-01	1.54E-06	4.55E-06	6.40E-01	6.83E-02	9.63E-05
Washington	Jefferson County	53031	R	1.20E-05	7.09E-03	1.07E-02	1.22E-01	2.40E-02	2.45E-05	8.11E-06	5.98E-01	1.14E-06	4.17E-06	6.39E-01	6.80E-02	1.21E-04
Washington	King County	53033	U	3.00E-05	6.42E-02	8.01E-02	7.60E-01	9.40E-02	7.31E-05	7.69E-05	2.33E+00	9.35E-06	2.34E-05	6.40E-01	6.81E-02	8.37E-04
Washington	Kitsap County	53035	U	1.81E-04	2.77E-02	4.59E-02	5.23E-01	5.84E-02	3.75E-04	3.47E-05	1.45E+00	4.27E-06	1.85E-05	6.40E-01	6.91E-02	1.41E-03
Washington	Kittitas County	53037	R	2.91E-05	1.64E-02	1.10E-02	7.83E-02	4.37E-02	5.51E-05	2.07E-06	5.39E-01	5.96E-07	1.18E-06	6.39E-01	6.80E-02	1.40E-05
Washington	Klickitat County	53039	R	8.95E-05	9.94E-03	2.24E-03	4.40E-02	3.10E-02	1.55E-04	4.31E-06	4.95E-01	2.31E-07	1.49E-06	6.41E-01	6.77E-02	1.05E-05
Washington	Lewis County	53041	R	1.89E-05	2.21E-02	7.29E-03	1.38E-01	5.26E-02	4.17E-05	3.35E-05	6.82E-01	1.94E-06	1.09E-05	6.39E-01	6.80E-02	5.94E-05
Washington	Lincoln County	53043	R	9.88E-06	1.08E-03	8.37E-04	2.47E-02	5.82E-03	1.88E-05	4.04E-07	4.31E-01	9.47E-08	3.49E-07	6.45E-01	6.78E-02	2.95E-06
Washington	Mason County	53045	R	5.34E-05	2.24E-02	2.16E-02	2.95E-01	5.99E-02	1.08E-04	1.36E-05	8.78E-01	1.95E-06	6.66E-06	6.39E-01	6.84E-02	1.44E-04
Washington	Okanogan County	53047	R	3.17E-06	9.31E-03	1.02E-03	3.21E-02	2.66E-02	6.89E-06	1.36E-06	4.80E-01	9.39E-08	4.42E-07	6.37E-01	6.79E-02	3.96E-06
Washington	Pacific County	53049	R	2.90E-07	9.75E-03	2.26E-03	4.43E-02	2.24E-02	2.10E-06	3.47E-06	5.23E-01	2.63E-07	1.13E-06	6.42E-01	6.79E-02	8.51E-06
Washington	Pend Oreille County	53051	R	3.91E-05	1.54E-02	3.21E-03	8.49E-02	3.81E-02	7.06E-05	4.26E-06	5.35E-01	3.01E-07	1.84E-06	6.39E-01	6.78E-02	2.17E-05
Washington	Pierce County	53053	U	4.63E-05	4.72E-02	6.90E-02	6.91E-01	9.23E-02	9.65E-05	5.84E-05	2.04E+00	7.33E-06	2.66E-05	6.41E-01	6.86E-02	3.71E-04
Washington	San Juan County	53055	R	9.74E-06	1.40E-02	2.63E-03	8.53E-02	1.72E-02	1.92E-05	4.49E-06	5.83E-01	5.27E-07	4.13E-06	6.40E-01	6.79E-02	2.04E-05

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State	County	FIPS	Urban or Rural	Coke Oven Emissions	Diesel PM	Ethylene Dibromide	Ethylene Dichloride	Ethylene Oxide	Formaldehyde	Hexachlorobenzene	Hydrazine	Lead	Manganese	Mercury	Methylene Chloride	Nickel
National	All	99999	-	0.00E+00	1.07E+00	6.08E-03	5.27E-02	1.25E-03	6.77E-01	7.51E-05	3.71E-08	1.54E-03	1.06E-03	1.33E-03	2.72E-01	7.43E-04
National	All Urban Counties	99998	U	0.00E+00	1.30E+00	6.08E-03	5.28E-02	1.80E-03	8.22E-01	7.51E-05	6.61E-08	2.50E-03	1.32E-03	1.40E-03	3.22E-01	1.10E-03
National	All Rural Counties	99998	R	0.00E+00	4.63E-01	6.08E-03	5.26E-02	1.05E-04	3.45E-01	7.51E-05	9.29E-10	1.45E-04	2.38E-04	1.21E-03	1.40E-01	8.37E-05
Washington	State Total	53000	-	0.00E+00	8.57E-01	6.08E-03	5.25E-02	7.70E-04	6.64E-01	7.50E-05	1.29E-08	1.99E-03	7.93E-04	1.26E-03	2.61E-01	8.57E-04
Washington	State Urban Counties	53000	U	0.00E+00	9.45E-01	6.08E-03	5.25E-02	9.30E-04	7.15E-01	7.50E-05	1.58E-08	2.89E-03	8.30E-04	1.27E-03	3.01E-01	1.25E-03
Washington	State Rural Counties	53000	R	0.00E+00	3.73E-01	6.08E-03	5.26E-02	6.90E-05	3.58E-01	7.51E-05	1.35E-09	1.56E-04	4.27E-04	1.20E-03	1.35E-01	7.23E-05
Washington	Adams County	53001	R	0.00E+00	1.11E+00	6.08E-03	5.23E-02	1.79E-04	2.48E-01	7.75E-05	1.94E-10	8.33E-05	2.20E-04	1.19E-03	1.51E-01	2.33E-04
Washington	Asotin County	53003	R	0.00E+00	3.82E-01	6.10E-03	5.26E-02	7.82E-04	4.36E-01	7.54E-05	1.13E-08	4.27E-03	9.44E-03	1.24E-03	2.58E-01	3.09E-04
Washington	Benton County	53005	U	0.00E+00	3.64E-01	6.08E-03	5.25E-02	3.01E-04	3.66E-01	7.53E-05	7.53E-09	3.46E-04	6.87E-04	1.21E-03	1.69E-01	1.60E-04
Washington	Chelan County	53007	U	0.00E+00	2.95E-01	6.08E-03	5.24E-02	9.25E-05	4.14E-01	7.51E-05	7.72E-10	1.27E-04	1.02E-03	1.20E-03	1.59E-01	3.67E-05
Washington	Clallam County	53009	R	0.00E+00	3.67E-01	6.08E-03	5.27E-02	8.21E-05	4.34E-01	7.50E-05	1.00E-08	1.59E-04	4.08E-04	1.20E-03	1.45E-01	1.44E-04
Washington	Clark County	53011	U	0.00E+00	1.29E+00	6.08E-03	5.25E-02	8.68E-04	1.13E+00	7.51E-05	3.81E-08	7.89E-03	2.79E-03	1.35E-03	3.90E-01	2.03E-03
Washington	Columbia County	53013	U	0.00E+00	1.40E-01	6.09E-03	5.23E-02	1.50E-05	2.26E-01	7.51E-05	7.87E-12	2.13E-05	1.38E-05	1.19E-03	1.22E-01	3.80E-06
Washington	Cowlitz County	53015	U	0.00E+00	9.54E-01	6.08E-03	5.26E-02	2.66E-04	5.69E-01	7.50E-05	7.47E-08	2.08E-03	1.56E-03	1.23E-03	2.01E-01	1.21E-03
Washington	Douglas County	53017	R	0.00E+00	4.45E-01	6.08E-03	5.23E-02	1.51E-04	4.68E-01	7.54E-05	1.03E-09	4.26E-04	1.63E-03	1.20E-03	1.97E-01	7.33E-05
Washington	Ferry County	53019	R	0.00E+00	3.68E-02	6.09E-03	5.28E-02	3.44E-06	2.30E-01	7.51E-05	2.24E-13	6.39E-06	1.31E-04	1.19E-03	1.21E-01	1.44E-06
Washington	Franklin County	53021	U	0.00E+00	3.30E-01	6.09E-03	5.26E-02	1.78E-04	4.27E-01	7.52E-05	1.19E-08	3.24E-04	5.33E-04	1.20E-03	1.57E-01	1.49E-04
Washington	Garfield County	53023	R	0.00E+00	1.87E-01	6.08E-03	5.33E-02	3.98E-05	2.83E-01	7.56E-05	1.64E-10	2.55E-04	1.47E-04	1.19E-03	1.24E-01	9.03E-06
Washington	Grant County	53025	R	0.00E+00	2.51E-01	6.08E-03	5.24E-02	4.31E-05	2.53E-01	7.52E-05	2.73E-09	2.33E-05	7.32E-05	1.19E-03	1.30E-01	1.91E-05
Washington	Grays Harbor County	53027	U	0.00E+00	4.41E-01	6.08E-03	5.24E-02	9.11E-05	4.31E-01	7.50E-05	5.25E-10	5.02E-05	3.86E-04	1.20E-03	1.35E-01	7.36E-05
Washington	Island County	53029	U	0.00E+00	5.39E-01	6.08E-03	5.25E-02	1.76E-04	4.18E-01	7.50E-05	1.18E-09	3.45E-04	2.85E-04	1.31E-03	1.51E-01	4.57E-04
Washington	Jefferson County	53031	R	0.00E+00	4.21E-01	6.08E-03	5.26E-02	7.82E-05	3.11E-01	7.50E-05	1.21E-10	3.44E-04	2.44E-04	1.25E-03	1.35E-01	3.21E-04
Washington	King County	53033	U	0.00E+00	1.20E+00	6.08E-03	5.25E-02	1.39E-03	8.85E-01	7.50E-05	2.95E-08	8.47E-03	9.60E-04	1.26E-03	4.04E-01	2.68E-03
Washington	Kitsap County	53035	U	0.00E+00	8.45E-01	6.08E-03	5.24E-02	5.65E-04	6.65E-01	7.50E-05	3.53E-09	3.42E-03	4.39E-04	1.36E-03	2.33E-01	3.38E-03
Washington	Kittitas County	53037	R	0.00E+00	3.61E-01	6.08E-03	5.26E-02	4.23E-05	3.57E-01	7.52E-05	3.79E-11	5.90E-05	1.17E-04	1.19E-03	1.31E-01	2.25E-05
Washington	Klickitat County	53039	R	0.00E+00	2.92E-01	6.07E-03	5.25E-02	2.78E-05	3.01E-01	7.49E-05	3.12E-10	2.28E-05	5.34E-04	1.19E-03	1.26E-01	1.56E-05
Washington	Lewis County	53041	R	0.00E+00	5.02E-01	6.08E-03	5.26E-02	7.98E-05	4.42E-01	7.49E-05	2.34E-09	3.42E-04	1.10E-03	1.20E-03	1.34E-01	9.96E-05
Washington	Lincoln County	53043	R	0.00E+00	1.45E-01	6.09E-03	5.25E-02	2.75E-05	2.12E-01	7.53E-05	1.90E-10	2.64E-05	2.73E-05	1.19E-03	1.22E-01	4.38E-06
Washington	Mason County	53045	R	0.00E+00	6.25E-01	6.08E-03	5.27E-02	3.90E-04	5.79E-01	7.51E-05	2.42E-09	2.00E-04	4.91E-04	1.22E-03	1.77E-01	2.63E-04
Washington	Okanogan County	53047	R	0.00E+00	1.39E-01	6.09E-03	5.26E-02	1.08E-05	2.81E-01	7.52E-05	0.00E+00	9.34E-06	1.69E-04	1.19E-03	1.23E-01	3.92E-06
Washington	Pacific County	53049	R	0.00E+00	2.97E-01	6.07E-03	5.23E-02	1.84E-05	2.76E-01	7.50E-05	2.44E-10	3.23E-05	3.50E-04	1.19E-03	1.24E-01	1.37E-05
Washington	Pend Oreille County	53051	R	0.00E+00	1.40E-01	6.07E-03	5.28E-02	5.25E-05	3.57E-01	7.50E-05	1.41E-11	4.31E-05	3.98E-04	1.19E-03	1.28E-01	1.60E-05
Washington	Pierce County	53053	U	0.00E+00	1.03E+00	6.08E-03	5.26E-02	1.49E-03	8.17E-01	7.50E-05	1.72E-08	2.98E-03	7.44E-04	1.26E-03	3.05E-01	9.26E-04
Washington	San Juan County	53055	R	0.00E+00	2.55E-01	6.08E-03	5.26E-02	1.68E-05	2.88E-01	7.51E-05	1.65E-09	6.85E-04	5.65E-05	1.19E-03	1.28E-01	1.13E-04

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

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.
For a discussion of limitations please see <http://www.epa.gov/ttn/atw/nata/natsalim2.html>
- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Washington											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
National	All	99999	-	3.00E-04	1.84E-01	4.27E-02	3.11E-05	1.85E-07	9.86E-02	7.61E-04					
National	All Urban Counties	99998	U	3.00E-04	2.13E-01	5.26E-02	4.73E-05	3.22E-07	1.12E-01	1.16E-03					
National	All Rural Counties	99998	R	3.00E-04	1.14E-01	9.18E-03	4.85E-06	1.07E-08	7.06E-02	1.05E-04					
Washington	State Total	53000	-	3.01E-04	1.56E-01	4.66E-02	6.44E-06	6.57E-08	1.23E-01	1.57E-04					
Washington	State Urban Counties	53000	U	3.01E-04	1.69E-01	5.56E-02	7.51E-06	8.14E-08	2.20E-01	1.73E-04					
Washington	State Rural Counties	53000	R	3.00E-04	1.12E-01	1.08E-02	2.58E-06	6.80E-09	6.95E-02	4.49E-05					
Washington	Adams County	53001	R	3.00E-04	1.11E-01	1.22E-02	1.27E-06	5.49E-09	7.18E-02	2.36E-05					
Washington	Asotin County	53003	R	3.01E-04	1.78E-01	3.92E-02	1.58E-05	5.97E-08	8.47E-02	3.21E-04					
Washington	Benton County	53005	U	3.00E-04	1.37E-01	2.73E-02	5.26E-06	3.04E-08	7.45E-02	9.37E-05					
Washington	Chelan County	53007	U	3.00E-04	1.11E-01	1.45E-02	2.28E-06	3.38E-09	6.95E-02	4.44E-05					
Washington	Clallam County	53009	R	3.00E-04	1.24E-01	1.33E-02	1.94E-06	2.97E-08	7.05E-02	3.30E-05					
Washington	Clark County	53011	U	3.00E-04	1.79E-01	9.20E-02	1.84E-05	1.92E-07	9.44E-02	3.40E-04					
Washington	Columbia County	53013	U	3.00E-04	1.06E-01	1.76E-03	7.08E-07	1.26E-10	6.76E-02	1.46E-05					
Washington	Cowlitz County	53015	U	3.00E-04	1.33E-01	2.07E-01	9.13E-06	2.44E-07	7.68E-02	1.39E-04					
Washington	Douglas County	53017	R	3.00E-04	1.20E-01	3.08E-02	3.14E-06	4.62E-09	7.11E-02	6.29E-05					
Washington	Ferry County	53019	R	3.00E-04	1.06E-01	2.05E-03	1.39E-08	5.70E-12	6.76E-02	1.30E-07					
Washington	Franklin County	53021	U	3.01E-04	1.21E-01	2.96E-02	8.51E-06	5.53E-08	7.23E-02	1.69E-04					
Washington	Garfield County	53023	R	3.00E-04	1.07E-01	3.86E-03	3.22E-06	3.29E-09	6.86E-02	6.64E-05					
Washington	Grant County	53025	R	3.00E-04	1.09E-01	5.66E-03	2.14E-06	8.50E-09	6.81E-02	4.20E-05					
Washington	Grays Harbor County	53027	U	3.00E-04	1.10E-01	1.16E-02	2.83E-07	2.33E-09	6.90E-02	1.85E-06					
Washington	Island County	53029	U	3.01E-04	1.19E-01	1.22E-02	4.25E-06	7.72E-09	8.69E-02	7.73E-05					
Washington	Jefferson County	53031	R	3.00E-04	1.12E-01	8.11E-03	1.45E-06	2.40E-09	7.93E-02	2.86E-05					
Washington	King County	53033	U	3.06E-04	2.32E-01	1.04E-01	5.16E-06	1.47E-07	5.89E-01	1.22E-04					
Washington	Kitsap County	53035	U	3.04E-04	1.50E-01	6.19E-02	2.23E-05	3.20E-08	1.78E-01	4.44E-04					
Washington	Kittitas County	53037	R	3.00E-04	1.11E-01	9.81E-03	3.33E-06	9.22E-10	6.90E-02	6.91E-05					
Washington	Klickitat County	53039	R	3.00E-04	1.08E-01	6.19E-03	9.81E-06	2.01E-09	6.82E-02	2.09E-04					
Washington	Lewis County	53041	R	3.00E-04	1.10E-01	2.11E-02	2.84E-06	1.23E-08	6.90E-02	4.68E-05					
Washington	Lincoln County	53043	R	3.01E-04	1.07E-01	1.24E-03	1.22E-06	1.60E-09	6.84E-02	2.36E-05					
Washington	Mason County	53045	R	3.00E-04	1.21E-01	2.43E-02	6.75E-06	1.18E-08	7.71E-02	1.27E-04					
Washington	Okanogan County	53047	R	3.00E-04	1.06E-01	4.46E-03	3.90E-07	0.00E+00	6.78E-02	7.45E-06					
Washington	Pacific County	53049	R	3.00E-04	1.07E-01	3.90E-03	1.03E-07	9.05E-10	6.76E-02	7.08E-07					
Washington	Pend Oreille County	53051	R	3.00E-04	1.08E-01	7.86E-03	4.37E-06	3.76E-10	6.90E-02	9.16E-05					
Washington	Pierce County	53053	U	3.01E-04	1.82E-01	7.39E-02	6.70E-06	7.83E-08	2.46E-01	1.93E-04					
Washington	San Juan County	53055	R	3.00E-04	1.09E-01	3.54E-03	1.22E-06	5.98E-09	6.85E-02	2.32E-05					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Washington												
State	County	FIPS	Urban or Rural	1,1,2,2-TCA	1,3-Butadiene	1,3-Dichloropropene	Acetaldehyde	Acrolein	Acrylonitrile	Arsenic	Benzene	Beryllium	Cadmium	Carbon Tetrachloride	Chloroform	Chromium
Washington	Skagit County	53057	U	7.46E-05	2.20E-02	1.77E-02	1.81E-01	5.23E-02	1.33E-04	2.39E-05	7.61E-01	2.37E-06	9.55E-06	6.40E-01	7.96E-02	1.40E-04
Washington	Skamania County	53059	R	5.49E-06	1.99E-02	3.02E-03	8.76E-02	5.69E-02	1.44E-05	2.09E-06	5.85E-01	2.55E-07	1.16E-06	6.43E-01	6.76E-02	1.24E-05
Washington	Snohomish County	53061	U	1.37E-04	4.09E-02	6.11E-02	4.92E-01	6.93E-02	2.52E-04	3.43E-05	1.79E+00	5.90E-06	1.72E-05	6.42E-01	6.83E-02	5.29E-04
Washington	Spokane County	53063	U	3.16E-04	2.89E-02	4.13E-02	2.65E-01	3.94E-02	5.63E-04	1.94E-05	8.34E-01	4.93E-06	1.16E-05	6.39E-01	6.84E-02	2.03E-04
Washington	Stevens County	53065	R	6.31E-06	1.13E-02	5.88E-03	6.00E-02	2.86E-02	1.40E-05	3.55E-06	5.05E-01	3.27E-07	1.45E-06	6.37E-01	6.78E-02	1.53E-05
Washington	Thurston County	53067	U	1.40E-04	3.95E-02	4.76E-02	3.93E-01	6.96E-02	2.62E-04	2.17E-05	1.26E+00	4.53E-06	1.27E-05	6.42E-01	6.88E-02	9.18E-05
Washington	Wahkiakum County	53069	R	8.41E-06	2.29E-02	1.98E-03	9.25E-02	4.75E-02	2.00E-05	9.19E-06	6.34E-01	6.21E-07	3.84E-06	6.36E-01	7.05E-02	1.81E-05
Washington	Walla Walla County	53071	U	1.40E-04	2.17E-02	3.46E-02	7.76E-02	3.16E-02	2.48E-04	1.65E-05	5.71E-01	3.38E-06	7.79E-06	6.41E-01	6.78E-02	3.46E-04
Washington	Whatcom County	53073	U	1.03E-04	3.18E-02	1.95E-02	1.83E-01	5.03E-02	1.54E-04	1.80E-05	8.59E-01	2.49E-06	1.01E-05	6.41E-01	1.06E-01	1.31E-04
Washington	Whitman County	53075	U	2.39E-05	1.08E-02	2.19E-02	1.19E-01	2.38E-02	5.09E-05	1.55E-05	5.56E-01	1.83E-06	5.71E-06	6.44E-01	6.78E-02	3.89E-05
Washington	Yakima County	53077	R	9.11E-05	2.61E-02	3.97E-02	2.72E-01	6.02E-02	1.80E-04	3.36E-05	7.39E-01	4.46E-06	1.33E-05	6.42E-01	6.83E-02	4.88E-05

				Estimated Annual Median Exposure Concentrations (ug/m3) for Washington												
State	County	FIPS	Urban or Rural	Coke Oven Emissions	Diesel PM	Ethylene Dibromide	Ethylene Dichloride	Ethylene Oxide	Formaldehyde	Hexachlorobenzene	Hydrazine	Lead	Manganese	Mercury	Methylene Chloride	Nickel
Washington	Skagit County	53057	U	0.00E+00	5.22E-01	6.08E-03	5.25E-02	2.32E-04	4.61E-01	7.50E-05	2.53E-09	2.58E-04	6.42E-04	1.36E-03	1.51E-01	4.33E-04
Washington	Skamania County	53059	R	0.00E+00	3.97E-01	6.07E-03	5.22E-02	1.22E-05	4.44E-01	7.49E-05	3.37E-11	2.97E-05	1.19E-04	1.19E-03	1.27E-01	3.35E-05
Washington	Snohomish County	53061	U	0.00E+00	8.70E-01	6.08E-03	5.25E-02	6.40E-04	6.71E-01	7.50E-05	8.35E-09	1.34E-03	7.56E-04	1.27E-03	3.01E-01	1.02E-03
Washington	Spokane County	53063	U	0.00E+00	3.84E-01	6.08E-03	5.26E-02	7.70E-04	4.60E-01	7.50E-05	1.60E-08	4.58E-04	9.18E-04	1.29E-03	2.26E-01	2.30E-04
Washington	Stevens County	53065	R	0.00E+00	1.43E-01	6.08E-03	5.25E-02	4.81E-05	3.06E-01	7.51E-05	7.00E-10	6.37E-05	2.87E-04	1.19E-03	1.26E-01	1.92E-05
Washington	Thurston County	53067	U	0.00E+00	8.62E-01	6.08E-03	5.26E-02	9.30E-04	6.18E-01	7.51E-05	3.55E-09	3.06E-04	1.01E-03	1.26E-03	2.33E-01	2.33E-04
Washington	Wahkiakum County	53069	R	0.00E+00	4.15E-01	6.09E-03	5.25E-02	9.93E-06	3.91E-01	7.51E-05	8.31E-11	1.48E-04	2.32E-04	1.20E-03	1.26E-01	3.60E-05
Washington	Walla Walla County	53071	U	0.00E+00	3.12E-01	6.07E-03	5.23E-02	7.02E-04	3.35E-01	7.51E-05	4.81E-09	5.92E-04	1.12E-03	1.21E-03	1.68E-01	1.09E-04
Washington	Whatcom County	53073	U	0.00E+00	4.01E-01	6.08E-03	5.26E-02	1.88E-04	4.63E-01	7.50E-05	9.77E-10	2.73E-04	8.29E-04	1.51E-03	1.47E-01	5.35E-04
Washington	Whitman County	53075	U	0.00E+00	4.45E-01	6.08E-03	5.21E-02	9.68E-05	3.34E-01	7.54E-05	1.72E-09	1.89E-03	1.57E-03	1.20E-03	1.45E-01	4.07E-05
Washington	Yakima County	53077	R	0.00E+00	5.33E-01	6.08E-03	5.25E-02	4.31E-04	5.10E-01	7.51E-05	2.20E-08	1.17E-03	2.97E-03	1.23E-03	2.18E-01	1.89E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Washington											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Washington	Skagit County	53057	U	3.00E-04	1.18E-01	1.53E-02	8.05E-06	8.02E-09	8.16E-02	1.65E-04					
Washington	Skamania County	53059	R	3.00E-04	1.07E-01	9.42E-03	7.51E-07	9.05E-10	6.80E-02	1.30E-05					
Washington	Snohomish County	53061	U	3.01E-04	1.80E-01	4.27E-02	1.58E-05	5.02E-08	4.59E-01	3.36E-04					
Washington	Spokane County	53063	U	3.00E-04	1.46E-01	3.71E-02	3.56E-05	7.29E-08	8.53E-02	7.52E-04					
Washington	Stevens County	53065	R	3.00E-04	1.09E-01	5.53E-03	8.75E-07	3.16E-09	6.82E-02	1.52E-05					
Washington	Thurston County	53067	U	3.00E-04	1.43E-01	3.80E-02	1.65E-05	1.75E-08	8.55E-02	3.30E-04					
Washington	Wahkiakum County	53069	R	3.01E-04	1.07E-01	2.48E-02	1.10E-06	2.73E-09	6.82E-02	1.99E-05					
Washington	Walla Walla County	53071	U	3.00E-04	1.24E-01	2.49E-02	1.57E-05	1.18E-08	7.31E-02	3.29E-04					
Washington	Whatcom County	53073	U	3.00E-04	1.20E-01	1.82E-02	9.70E-06	4.57E-09	7.27E-02	2.04E-04					
Washington	Whitman County	53075	U	3.00E-04	1.16E-01	1.57E-02	3.04E-06	9.56E-09	6.87E-02	5.73E-05					
Washington	Yakima County	53077	R	3.00E-04	1.31E-01	3.44E-02	1.13E-05	9.67E-08	7.88E-02	3.22E-04					