

US EPA ARCHIVE DOCUMENT

1996 Modeled Exposure Concentrations for Iowa

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. 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 Iowa												
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
Iowa	State Total	19000	-	3.87E-05	1.68E-02	1.63E-02	1.03E-01	1.85E-02	9.64E-05	1.26E-05	6.15E-01	2.24E-06	7.45E-06	6.40E-01	6.81E-02	9.41E-05
Iowa	State Urban Counties	19000	U	7.37E-05	3.58E-02	3.67E-02	2.00E-01	3.12E-02	2.65E-04	2.86E-05	8.46E-01	5.70E-06	1.68E-05	6.40E-01	6.83E-02	2.75E-04
Iowa	State Rural Counties	19000	R	1.51E-05	3.81E-03	2.69E-03	4.50E-02	7.38E-03	3.07E-05	2.68E-06	4.82E-01	4.38E-07	1.55E-06	6.40E-01	6.79E-02	2.05E-05
Iowa	Adair County	19001	R	6.41E-06	2.06E-03	1.33E-03	2.54E-02	3.93E-03	1.32E-05	4.89E-07	4.44E-01	1.39E-07	4.56E-07	6.41E-01	6.77E-02	2.97E-06
Iowa	Adams County	19003	R	2.58E-06	2.29E-03	1.25E-03	2.27E-02	3.45E-03	6.33E-06	4.85E-07	4.43E-01	1.36E-07	6.02E-07	6.37E-01	6.78E-02	2.90E-06
Iowa	Allamakee County	19005	R	3.62E-06	4.85E-03	1.48E-03	3.20E-02	1.18E-02	6.77E-06	6.05E-06	4.67E-01	5.57E-07	1.55E-06	6.42E-01	6.79E-02	1.37E-05
Iowa	Appanoose County	19007	R	5.72E-06	2.23E-03	9.99E-04	1.76E-02	4.13E-03	1.16E-05	2.33E-06	4.41E-01	2.10E-07	6.88E-07	6.32E-01	6.81E-02	7.49E-06
Iowa	Audubon County	19009	R	6.93E-06	3.41E-03	4.20E-03	3.83E-02	4.90E-03	1.45E-05	1.89E-06	4.67E-01	5.34E-07	1.31E-06	6.37E-01	6.79E-02	7.90E-06
Iowa	Benton County	19011	R	2.33E-05	3.77E-03	4.74E-03	9.16E-02	1.33E-02	5.34E-05	9.05E-06	5.38E-01	9.14E-07	5.15E-06	6.43E-01	6.79E-02	2.38E-04
Iowa	Black Hawk County	19013	U	1.94E-04	4.59E-02	4.50E-02	2.88E-01	3.60E-02	3.53E-04	3.14E-05	1.03E+00	6.23E-06	1.65E-05	6.40E-01	6.84E-02	8.01E-04
Iowa	Boone County	19015	U	7.58E-05	7.41E-03	6.72E-03	1.30E-01	1.83E-02	1.48E-04	7.41E-06	5.82E-01	1.01E-06	1.43E-05	6.37E-01	6.82E-02	2.99E-05
Iowa	Bremer County	19017	R	2.89E-05	9.68E-03	8.51E-03	1.09E-01	1.48E-02	5.78E-05	5.36E-06	5.76E-01	9.83E-07	3.18E-06	6.35E-01	6.80E-02	3.16E-04
Iowa	Buchanan County	19019	R	3.61E-05	8.68E-03	6.17E-03	1.29E-01	1.60E-02	7.05E-05	5.48E-06	5.88E-01	8.23E-07	4.58E-06	6.41E-01	6.81E-02	6.37E-05
Iowa	Buena Vista County	19021	R	5.10E-06	3.17E-03	2.93E-03	4.26E-02	5.64E-03	1.25E-05	1.36E-06	4.76E-01	3.49E-07	1.03E-06	6.44E-01	6.79E-02	2.81E-05
Iowa	Butler County	19023	R	1.44E-05	4.16E-03	3.47E-03	6.29E-02	8.08E-03	2.85E-05	2.21E-06	5.07E-01	3.96E-07	1.21E-06	6.39E-01	6.78E-02	7.08E-05
Iowa	Calhoun County	19025	R	5.40E-06	2.78E-03	1.96E-03	3.95E-02	5.07E-03	1.24E-05	7.29E-07	4.67E-01	2.08E-07	9.85E-07	6.47E-01	6.76E-02	1.39E-05
Iowa	Carroll County	19027	R	6.33E-06	4.15E-03	3.86E-03	4.61E-02	6.15E-03	1.50E-05	1.49E-06	4.90E-01	4.15E-07	1.78E-06	6.43E-01	6.78E-02	3.02E-05
Iowa	Cass County	19029	R	1.46E-06	1.97E-03	1.23E-03	3.02E-02	4.03E-03	6.10E-06	5.80E-07	4.51E-01	1.51E-07	5.91E-07	6.40E-01	6.78E-02	1.77E-05
Iowa	Cedar County	19031	R	2.31E-05	5.27E-03	3.61E-03	7.98E-02	1.55E-02	9.68E-03	1.37E-05	5.21E-01	1.11E-06	5.11E-06	6.38E-01	6.80E-02	1.49E-04
Iowa	Cerro Gordo County	19033	U	5.92E-05	1.14E-02	1.33E-02	6.37E-02	1.33E-02	1.11E-04	5.17E-06	5.29E-01	1.49E-06	5.05E-06	6.37E-01	6.82E-02	1.06E-03
Iowa	Cherokee County	19035	R	2.53E-05	1.92E-03	1.61E-03	3.02E-02	3.79E-03	4.62E-05	7.02E-07	4.48E-01	1.90E-07	1.22E-06	6.36E-01	6.79E-02	5.81E-06
Iowa	Chickasaw County	19037	R	6.32E-06	3.34E-03	2.93E-03	4.55E-02	6.38E-03	1.46E-05	1.22E-06	4.80E-01	3.21E-07	1.07E-06	6.41E-01	6.79E-02	2.17E-05
Iowa	Clarke County	19039	U	6.58E-06	2.39E-03	1.50E-03	2.70E-02	6.65E-03	1.50E-05	6.23E-07	4.50E-01	1.70E-07	4.53E-07	6.35E-01	6.78E-02	1.61E-04
Iowa	Clay County	19041	U	5.51E-06	1.18E-02	1.37E-02	6.23E-02	1.38E-02	1.54E-05	6.47E-06	6.23E-01	1.83E-06	3.25E-06	6.45E-01	6.79E-02	1.39E-05
Iowa	Clayton County	19043	R	4.36E-06	4.30E-03	1.80E-03	3.85E-02	9.62E-03	9.98E-06	2.09E-06	4.74E-01	2.47E-07	1.03E-06	6.39E-01	6.78E-02	6.60E-06
Iowa	Clinton County	19045	U	5.99E-05	2.01E-02	2.01E-02	1.32E-01	2.28E-02	1.36E-04	2.94E-05	6.22E-01	3.80E-06	3.87E-05	6.41E-01	6.82E-02	4.67E-04
Iowa	Crawford County	19047	R	4.36E-06	1.96E-03	1.55E-03	3.30E-02	4.24E-03	9.90E-06	6.48E-07	4.48E-01	1.78E-07	6.20E-07	6.40E-01	6.80E-02	2.15E-05
Iowa	Dallas County	19049	U	4.30E-05	7.69E-03	7.86E-03	1.22E-01	1.70E-02	8.21E-05	3.85E-06	5.84E-01	9.39E-07	3.88E-06	6.40E-01	6.80E-02	3.62E-05
Iowa	Davis County	19051	R	1.80E-06	3.12E-03	1.43E-03	1.91E-02	4.68E-03	5.06E-06	4.92E-06	4.49E-01	3.68E-07	9.33E-07	6.41E-01	6.80E-02	1.34E-05
Iowa	Decatur County	19053	R	2.77E-05	7.22E-03	3.22E-03	3.32E-02	9.42E-03	4.98E-05	1.47E-06	4.82E-01	4.29E-07	8.93E-07	6.42E-01	6.80E-02	2.22E-05
Iowa	Delaware County	19055	R	1.36E-05	3.25E-03	2.27E-03	5.23E-02	7.93E-03	2.81E-05	2.83E-06	4.88E-01	3.30E-07	1.22E-06	6.43E-01	6.80E-02	1.95E-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
Iowa	State Total	19000	-	0.00E+00	5.22E-01	6.08E-03	5.26E-02	3.19E-04	3.11E-01	7.52E-05	3.25E-09	2.45E-04	3.83E-04	1.22E-03	1.61E-01	1.83E-04
Iowa	State Urban Counties	19000	U	0.00E+00	6.78E-01	6.08E-03	5.26E-02	9.33E-04	4.06E-01	7.51E-05	1.56E-08	6.16E-04	9.27E-04	1.26E-03	2.14E-01	3.88E-04
Iowa	State Rural Counties	19000	R	0.00E+00	3.86E-01	6.08E-03	5.26E-02	5.20E-05	2.31E-01	7.52E-05	1.15E-10	3.95E-05	5.54E-05	1.20E-03	1.28E-01	3.22E-05
Iowa	Adair County	19001	R	0.00E+00	3.31E-01	6.07E-03	5.24E-02	1.74E-05	2.06E-01	7.51E-05	7.44E-10	9.28E-06	1.55E-05	1.19E-03	1.23E-01	7.46E-06
Iowa	Adams County	19003	R	0.00E+00	3.29E-01	6.07E-03	5.27E-02	4.41E-05	2.03E-01	7.51E-05	1.15E-10	9.28E-06	2.73E-05	1.19E-03	1.23E-01	7.45E-06
Iowa	Allamakee County	19005	R	0.00E+00	3.56E-01	6.08E-03	5.28E-02	2.25E-05	2.31E-01	7.53E-05	4.88E-11	1.74E-05	2.95E-05	1.20E-03	1.24E-01	2.68E-05
Iowa	Appanoose County	19007	R	0.00E+00	2.70E-01	6.09E-03	5.31E-02	2.30E-05	2.00E-01	7.54E-05	7.85E-11	1.84E-05	2.15E-05	1.19E-03	1.23E-01	1.47E-05
Iowa	Audubon County	19009	R	0.00E+00	4.16E-01	6.08E-03	5.27E-02	7.80E-05	2.18E-01	7.52E-05	6.34E-12	4.93E-05	5.06E-05	1.19E-03	1.31E-01	3.07E-05
Iowa	Benton County	19011	R	0.00E+00	3.89E-01	6.08E-03	5.25E-02	1.64E-04	2.57E-01	7.51E-05	7.87E-11	1.71E-04	1.87E-04	1.22E-03	1.38E-01	2.28E-04
Iowa	Black Hawk County	19013	U	0.00E+00	7.24E-01	6.08E-03	5.25E-02	1.17E-03	4.78E-01	7.51E-05	2.45E-09	2.71E-04	1.18E-03	1.28E-03	2.44E-01	4.25E-04
Iowa	Boone County	19015	U	0.00E+00	4.38E-01	6.09E-03	5.28E-02	2.48E-04	3.17E-01	7.52E-05	4.75E-09	1.68E-04	1.11E-04	1.23E-03	1.36E-01	4.77E-05
Iowa	Bremer County	19017	R	0.00E+00	4.56E-01	6.09E-03	5.26E-02	1.08E-04	2.96E-01	7.52E-05	7.47E-11	5.73E-05	1.50E-04	1.21E-03	1.39E-01	6.25E-05
Iowa	Buchanan County	19019	R	0.00E+00	4.87E-01	6.09E-03	5.26E-02	1.73E-04	3.08E-01	7.53E-05	3.19E-11	1.70E-04	1.36E-04	1.22E-03	1.41E-01	8.76E-05
Iowa	Buena Vista County	19021	R	0.00E+00	3.78E-01	6.09E-03	5.27E-02	6.18E-05	2.25E-01	7.53E-05	1.23E-12	1.70E-05	4.28E-05	1.20E-03	1.27E-01	2.66E-05
Iowa	Butler County	19023	R	0.00E+00	3.96E-01	6.09E-03	5.23E-02	3.32E-05	2.51E-01	7.51E-05	7.50E-10	2.69E-05	6.02E-05	1.20E-03	1.30E-01	2.40E-05
Iowa	Calhoun County	19025	R	0.00E+00	3.70E-01	6.08E-03	5.23E-02	4.94E-05	2.21E-01	7.51E-05	6.47E-10	2.98E-05	2.82E-05	1.20E-03	1.25E-01	9.79E-06
Iowa	Carroll County	19027	R	0.00E+00	3.91E-01	6.08E-03	5.24E-02	6.41E-05	2.31E-01	7.52E-05	1.31E-11	3.01E-05	4.68E-05	1.20E-03	1.29E-01	2.65E-05
Iowa	Cass County	19029	R	0.00E+00	3.50E-01	6.08E-03	5.27E-02	2.45E-05	2.09E-01	7.53E-05	9.79E-12	1.09E-05	2.64E-05	1.19E-03	1.24E-01	1.18E-05
Iowa	Cedar County	19031	R	0.00E+00	4.67E-01	6.08E-03	5.27E-02	4.79E-04	2.60E-01	7.51E-05	1.71E-09	9.65E-05	1.64E-04	1.21E-03	1.44E-01	1.27E-04
Iowa	Cerro Gordo County	19033	U	0.00E+00	4.59E-01	6.08E-03	5.28E-02	3.97E-04	2.63E-01	7.53E-05	1.54E-10	3.58E-04	2.29E-04	1.23E-03	1.43E-01	6.18E-05
Iowa	Cherokee County	19035	R	0.00E+00	3.24E-01	6.08E-03	5.29E-02	7.84E-05	2.08E-01	7.52E-05	8.21E-11	1.91E-05	2.24E-05	1.20E-03	1.24E-01	1.16E-05
Iowa	Chickasaw County	19037	R	0.00E+00	3.98E-01	6.08E-03	5.27E-02	4.60E-05	2.27E-01	7.52E-05	1.17E-09	2.13E-05	3.86E-05	1.19E-03	1.30E-01	2.56E-05
Iowa	Clarke County	19039	U	0.00E+00	3.09E-01	6.07E-03	5.26E-02	2.97E-05	2.12E-01	7.52E-05	2.57E-11	8.73E-06	1.99E-04	1.19E-03	1.24E-01	2.01E-04
Iowa	Clay County	19041	U	0.00E+00	5.29E-01	6.08E-03	5.22E-02	3.34E-04	2.55E-01	7.54E-05	0.00E+00	5.63E-05	1.69E-04	1.20E-03	1.50E-01	1.22E-04
Iowa	Clayton County	19043	R	0.00E+00	3.81E-01	6.07E-03	5.25E-02	2.60E-05	2.29E-01	7.51E-05	4.55E-11	2.60E-04	3.07E-05	1.19E-03	1.25E-01	1.51E-05
Iowa	Clinton County	19045	U	0.00E+00	7.39E-01	6.08E-03	5.25E-02	1.67E-03	3.26E-01	7.52E-05	1.12E-07	1.80E-03	1.74E-03	1.30E-03	1.66E-01	3.76E-04
Iowa	Crawford County	19047	R	0.00E+00	3.42E-01	6.09E-03	5.27E-02	2.39E-05	2.10E-01	7.52E-05	2.64E-10	1.08E-05	2.33E-05	1.19E-03	1.24E-01	1.13E-05
Iowa	Dallas County	19049	U	0.00E+00	4.15E-01	6.09E-03	5.26E-02	1.66E-04	3.18E-01	7.52E-05	2.72E-10	1.69E-04	1.23E-04	1.21E-03	1.39E-01	5.17E-05
Iowa	Davis County	19051	R	0.00E+00	2.85E-01	6.09E-03	5.28E-02	2.76E-05	2.07E-01	7.53E-05	4.19E-11	2.20E-05	2.96E-05	1.19E-03	1.23E-01	1.97E-05
Iowa	Decatur County	19053	R	0.00E+00	3.25E-01	6.08E-03	5.27E-02	1.22E-04	2.33E-01	7.52E-05	0.00E+00	1.08E-05	5.11E-05	1.19E-03	1.30E-01	4.41E-05
Iowa	Delaware County	19055	R	0.00E+00	4.12E-01	6.09E-03	5.26E-02	4.78E-05	2.34E-01	7.54E-05	9.83E-10	1.40E-03	4.73E-05	1.20E-03	1.38E-01	3.40E-05

1996 Modeled Exposure Concentrations for Iowa

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 Iowa											
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					
Iowa	State Total	19000	-	3.00E-04	1.23E-01	1.46E-02	5.30E-06	1.81E-08	7.42E-02	9.61E-05					
Iowa	State Urban Counties	19000	U	3.00E-04	1.54E-01	3.47E-02	1.21E-05	6.64E-08	8.54E-02	1.90E-04					
Iowa	State Rural Counties	19000	R	3.00E-04	1.09E-01	3.08E-03	1.82E-06	1.89E-09	6.87E-02	3.77E-05					
Iowa	Adair County	19001	R	3.00E-04	1.07E-01	1.40E-03	8.26E-07	6.71E-09	6.80E-02	1.52E-05					
Iowa	Adams County	19003	R	3.00E-04	1.06E-01	1.34E-03	3.61E-07	2.44E-09	6.77E-02	6.15E-06					
Iowa	Allamakee County	19005	R	3.00E-04	1.08E-01	2.62E-03	4.22E-07	1.14E-09	7.01E-02	1.31E-05					
Iowa	Appanoose County	19007	R	3.01E-04	1.06E-01	1.19E-03	6.85E-07	8.38E-10	6.86E-02	1.34E-05					
Iowa	Audubon County	19009	R	3.00E-04	1.13E-01	4.00E-03	8.35E-07	1.59E-10	6.89E-02	1.63E-05					
Iowa	Benton County	19011	R	3.00E-04	1.10E-01	4.60E-03	2.82E-06	2.22E-09	7.00E-02	5.46E-05					
Iowa	Black Hawk County	19013	U	3.00E-04	2.06E-01	3.80E-02	2.19E-05	8.49E-09	1.07E-01	4.55E-04					
Iowa	Boone County	19015	U	3.01E-04	1.15E-01	6.53E-03	1.04E-05	2.31E-08	7.22E-02	1.84E-04					
Iowa	Bremer County	19017	R	3.00E-04	1.18E-01	7.48E-03	3.43E-06	1.24E-09	7.17E-02	6.77E-05					
Iowa	Buchanan County	19019	R	3.00E-04	1.15E-01	5.91E-03	4.26E-06	6.64E-10	7.18E-02	8.46E-05					
Iowa	Buena Vista County	19021	R	3.01E-04	1.10E-01	2.74E-03	6.70E-07	4.83E-11	6.88E-02	1.20E-05					
Iowa	Butler County	19023	R	3.01E-04	1.10E-01	3.41E-03	1.77E-06	4.36E-09	6.92E-02	3.40E-05					
Iowa	Calhoun County	19025	R	3.00E-04	1.10E-01	1.94E-03	7.13E-07	3.57E-09	6.77E-02	1.28E-05					
Iowa	Carroll County	19027	R	3.00E-04	1.30E-01	3.53E-03	8.16E-07	2.86E-10	6.96E-02	1.48E-05					
Iowa	Cass County	19029	R	3.00E-04	1.07E-01	1.33E-03	2.73E-07	2.69E-10	6.83E-02	3.45E-06					
Iowa	Cedar County	19031	R	3.00E-04	1.09E-01	3.94E-03	3.07E-06	3.13E-08	6.90E-02	6.03E-05					
Iowa	Cerro Gordo County	19033	U	3.00E-04	1.16E-01	1.15E-02	6.78E-06	3.38E-09	7.11E-02	1.42E-04					
Iowa	Cherokee County	19035	R	3.00E-04	1.07E-01	1.62E-03	2.86E-06	1.69E-09	6.84E-02	5.94E-05					
Iowa	Chickasaw County	19037	R	3.00E-04	1.09E-01	2.77E-03	8.45E-07	4.68E-09	6.86E-02	1.49E-05					
Iowa	Clarke County	19039	U	3.00E-04	1.07E-01	1.91E-03	8.33E-07	3.98E-10	6.86E-02	1.55E-05					
Iowa	Clay County	19041	U	3.00E-04	1.47E-01	1.15E-02	7.92E-07	0.00E+00	7.37E-02	1.30E-05					
Iowa	Clayton County	19043	R	3.00E-04	1.08E-01	2.18E-03	5.61E-07	1.12E-09	6.96E-02	1.03E-05					
Iowa	Clinton County	19045	U	3.11E-04	1.33E-01	2.43E-02	9.89E-06	8.61E-07	8.48E-02	1.20E-03					
Iowa	Crawford County	19047	R	3.00E-04	1.09E-01	1.61E-03	6.36E-07	1.14E-09	6.82E-02	1.03E-05					
Iowa	Dallas County	19049	U	3.00E-04	1.16E-01	7.23E-03	5.00E-06	5.94E-09	7.22E-02	1.01E-04					
Iowa	Davis County	19051	R	3.01E-04	1.06E-01	1.60E-03	2.61E-07	5.91E-10	6.80E-02	4.26E-06					
Iowa	Decatur County	19053	R	3.00E-04	1.10E-01	3.62E-03	3.08E-06	0.00E+00	6.90E-02	6.51E-05					
Iowa	Delaware County	19055	R	3.01E-04	1.08E-01	2.44E-03	1.66E-06	4.73E-09	6.86E-02	3.19E-05					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa												
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
Iowa	Des Moines County	19057	U	6.39E-05	1.89E-02	2.06E-02	9.15E-02	2.18E-02	3.38E-04	3.32E-05	6.05E-01	2.86E-06	1.19E-05	6.39E-01	6.81E-02	6.53E-04
Iowa	Dickinson County	19059	R	3.46E-05	7.03E-02	4.82E-03	1.11E-01	3.73E-02	6.46E-05	3.52E-06	1.47E+00	8.21E-07	2.15E-06	6.44E-01	6.78E-02	1.03E-05
Iowa	Dubuque County	19061	U	8.74E-05	3.55E-02	3.38E-02	1.72E-01	2.97E-02	1.66E-04	2.73E-05	8.82E-01	5.81E-06	1.32E-05	6.38E-01	6.81E-02	8.15E-05
Iowa	Emmet County	19063	U	7.60E-06	1.94E-02	1.09E-02	5.80E-02	2.39E-02	1.72E-05	4.04E-06	6.41E-01	1.16E-06	2.77E-06	6.40E-01	6.78E-02	1.14E-05
Iowa	Fayette County	19065	R	2.12E-05	3.84E-03	2.90E-03	5.49E-02	7.97E-03	4.13E-05	1.46E-06	4.81E-01	3.45E-07	1.32E-06	6.39E-01	6.78E-02	1.33E-05
Iowa	Floyd County	19067	R	3.97E-06	4.39E-03	5.88E-03	4.72E-02	6.70E-03	1.16E-05	2.30E-06	4.84E-01	6.24E-07	1.52E-06	6.42E-01	6.79E-02	5.45E-05
Iowa	Franklin County	19069	R	2.56E-05	8.86E-03	5.41E-03	4.73E-02	1.17E-02	5.13E-05	2.55E-06	5.07E-01	6.41E-07	1.55E-06	6.49E-01	6.76E-02	9.69E-05
Iowa	Fremont County	19071	R	3.52E-06	2.61E-03	1.73E-03	3.57E-02	5.29E-03	9.80E-06	2.06E-05	4.60E-01	6.67E-05	3.93E-05	6.45E-01	6.79E-02	1.15E-03
Iowa	Greene County	19073	R	7.09E-06	2.82E-03	2.45E-03	4.02E-02	5.61E-03	1.57E-05	9.45E-07	4.68E-01	2.65E-07	9.22E-07	6.35E-01	6.78E-02	5.38E-06
Iowa	Grundy County	19075	R	2.21E-05	3.60E-03	3.06E-03	6.57E-02	8.16E-03	4.29E-05	4.63E-06	5.04E-01	5.09E-07	1.83E-06	6.47E-01	6.78E-02	6.51E-05
Iowa	Guthrie County	19077	R	4.59E-06	2.90E-03	1.87E-03	3.33E-02	6.01E-03	1.02E-05	5.70E-07	4.68E-01	1.67E-07	6.05E-07	6.47E-01	6.79E-02	3.40E-06
Iowa	Hamilton County	19079	R	8.67E-06	2.74E-03	2.87E-03	4.98E-02	7.36E-03	2.10E-05	6.72E-06	4.77E-01	5.42E-07	7.43E-06	6.47E-01	6.78E-02	3.62E-05
Iowa	Hancock County	19081	R	2.51E-05	3.89E-03	2.49E-03	3.33E-02	4.93E-03	4.71E-05	1.56E-06	4.65E-01	2.94E-07	8.96E-07	6.39E-01	6.77E-02	5.24E-05
Iowa	Hardin County	19083	R	3.34E-05	5.01E-03	3.86E-03	4.32E-02	7.08E-03	6.38E-05	4.73E-06	4.91E-01	7.59E-07	4.85E-06	6.38E-01	6.80E-02	3.41E-05
Iowa	Harrison County	19085	R	4.32E-06	5.61E-03	2.84E-03	6.13E-02	8.63E-03	1.13E-05	7.93E-06	5.03E-01	6.10E-07	2.29E-06	6.42E-01	6.77E-02	1.08E-05
Iowa	Henry County	19087	R	4.66E-05	5.49E-03	3.80E-03	5.52E-02	1.05E-02	1.13E-04	8.00E-06	4.93E-01	5.46E-07	3.40E-06	6.45E-01	6.81E-02	1.82E-04
Iowa	Howard County	19089	R	2.15E-05	1.98E-03	1.37E-03	2.72E-02	5.28E-03	3.98E-05	5.72E-07	4.47E-01	1.52E-07	5.80E-07	6.43E-01	6.76E-02	5.11E-06
Iowa	Humboldt County	19091	R	1.72E-05	8.12E-03	9.69E-03	6.23E-02	8.27E-03	3.54E-05	4.54E-06	5.28E-01	1.08E-06	2.50E-06	6.39E-01	6.79E-02	3.44E-05
Iowa	Ida County	19093	R	7.14E-06	6.80E-03	3.08E-03	4.76E-02	8.77E-03	1.47E-05	1.85E-06	4.96E-01	4.57E-07	1.31E-06	6.44E-01	6.76E-02	1.77E-05
Iowa	Iowa County	19095	R	4.93E-05	3.17E-03	2.40E-03	4.98E-02	7.31E-03	8.86E-05	3.20E-06	4.76E-01	4.16E-07	2.02E-06	6.40E-01	6.79E-02	7.65E-05
Iowa	Jackson County	19097	R	2.19E-05	6.38E-03	3.46E-03	5.63E-02	1.10E-02	4.41E-05	5.84E-06	5.01E-01	6.05E-07	4.48E-06	6.41E-01	6.79E-02	2.49E-05
Iowa	Jasper County	19099	R	5.91E-05	7.11E-03	8.34E-03	1.22E-01	1.57E-02	1.15E-04	6.74E-06	5.89E-01	1.07E-06	5.95E-06	6.38E-01	6.81E-02	4.92E-05
Iowa	Jefferson County	19101	U	5.08E-06	1.27E-02	1.11E-02	3.90E-02	1.11E-02	1.38E-05	6.23E-06	5.23E-01	1.39E-06	2.61E-06	6.40E-01	6.78E-02	3.58E-05
Iowa	Johnson County	19103	U	5.86E-05	4.77E-02	4.32E-02	2.07E-01	3.41E-02	3.44E-03	2.93E-05	9.95E-01	6.40E-06	2.21E-05	6.38E-01	6.82E-02	3.40E-04
Iowa	Jones County	19105	R	1.67E-05	7.91E-03	7.36E-03	7.69E-02	1.52E-02	5.79E-03	5.57E-06	5.25E-01	8.67E-07	3.05E-06	6.37E-01	6.79E-02	3.55E-05
Iowa	Keokuk County	19107	R	2.29E-05	2.25E-03	1.21E-03	2.23E-02	3.83E-03	4.12E-05	2.03E-06	4.50E-01	1.99E-07	5.66E-07	6.39E-01	6.76E-02	1.74E-05
Iowa	Kossuth County	19109	R	2.24E-05	3.18E-03	1.78E-03	3.31E-02	4.52E-03	4.21E-05	6.98E-07	4.61E-01	1.84E-07	8.89E-07	6.39E-01	6.80E-02	7.79E-06
Iowa	Lee County	19111	U	1.42E-05	1.90E-02	1.86E-02	8.48E-02	2.11E-02	4.89E-05	2.17E-05	6.21E-01	2.29E-06	5.91E-06	6.43E-01	6.79E-02	2.32E-03
Iowa	Linn County	19113	U	2.95E-05	5.60E-02	4.30E-02	2.75E-01	4.44E-02	6.87E-03	4.28E-05	1.02E+00	7.11E-06	3.17E-05	6.41E-01	6.83E-02	3.56E-03
Iowa	Louisia County	19115	R	5.96E-05	5.74E-03	3.53E-03	6.22E-02	1.25E-02	6.49E-03	1.76E-05	5.08E-01	1.17E-06	3.99E-06	6.40E-01	6.78E-02	5.21E-05
Iowa	Lucas County	19117	R	3.73E-06	1.07E-02	7.20E-03	4.33E-02	1.41E-02	1.03E-05	3.46E-06	5.05E-01	7.73E-07	1.62E-06	6.37E-01	6.77E-02	3.11E-05
Iowa	Lyon County	19119	R	7.28E-06	2.77E-03	2.34E-03	4.17E-02	5.68E-03	1.76E-05	8.37E-07	4.68E-01	2.42E-07	7.86E-07	6.42E-01	6.78E-02	7.10E-06
Iowa	Madison County	19121	R	3.40E-05	8.60E-03	6.67E-03	9.17E-02	1.36E-02	6.41E-05	2.26E-06	5.52E-01	6.40E-07	1.73E-06	6.39E-01	6.78E-02	3.78E-05
Iowa	Mahaska County	19123	R	3.53E-05	1.63E-02	1.83E-02	6.45E-02	1.48E-02	6.59E-05	1.18E-05	5.67E-01	2.17E-06	4.12E-06	6.38E-01	6.79E-02	3.19E-05
Iowa	Marion County	19125	U	4.25E-05	1.64E-02	2.10E-02	5.55E-02	1.28E-02	7.96E-05	1.62E-05	5.77E-01	3.13E-06	6.76E-06	6.41E-01	6.79E-02	2.08E-05
Iowa	Marshall County	19127	U	4.58E-05	2.66E-02	3.81E-02	1.12E-01	2.14E-02	9.46E-05	2.41E-05	7.02E-01	4.45E-06	1.63E-05	6.41E-01	6.80E-02	2.56E-03
Iowa	Mills County	19129	R	2.03E-05	9.29E-03	1.25E-02	1.23E-01	1.61E-02	3.21E-05	5.65E-05	5.85E-01	3.83E-05	3.04E-05	6.39E-01	6.80E-02	6.12E-04
Iowa	Mitchell County	19131	R	5.82E-06	2.88E-03	1.82E-03	3.06E-02	6.04E-03	1.96E-05	9.40E-07	4.62E-01	2.01E-07	1.01E-06	6.42E-01	6.76E-02	2.53E-05
Iowa	Monona County	19133	R	1.63E-06	2.56E-03	1.44E-03	3.92E-02	6.00E-03	4.81E-06	1.41E-05	4.60E-01	8.89E-07	2.49E-06	6.37E-01	6.79E-02	1.39E-05
Iowa	Monroe County	19135	R	1.55E-05	4.33E-03	2.32E-03	2.48E-02	6.78E-03	2.99E-05	6.82E-06	4.52E-01	5.55E-07	1.66E-06	6.43E-01	6.79E-02	1.64E-05
Iowa	Montgomery County	19137	U	1.10E-05	9.39E-03	1.11E-02	4.56E-02	7.34E-03	2.40E-05	5.57E-06	5.17E-01	1.42E-06	3.14E-06	6.44E-01	6.79E-02	1.12E-05
Iowa	Muscataine County	19139	U	1.50E-04	2.36E-02	3.08E-02	1.62E-01	2.84E-02	1.54E-02	7.67E-05	7.07E-01	7.74E-06	1.71E-05	6.42E-01	6.83E-02	4.53E-04
Iowa	O'Brien County	19141	R	1.10E-05	3.39E-03	1.81E-03	3.74E-02	6.49E-03	2.22E-05	7.54E-07	4.93E-01	2.08E-07	1.23E-06	6.40E-01	6.79E-02	4.40E-06
Iowa	Osceola County	19143	R	6.66E-06	3.97E-03	2.23E-03	3.79E-02	8.77E-03	1.82E-05	9.31E-07	4.98E-01	2.44E-07	9.03E-07	6.39E-01	6.79E-02	9.59E-06
Iowa	Page County	19145	U	3.26E-06	1.13E-02	1.33E-02	5.21E-02	9.16E-03	1.35E-05	5.95E-06	5.39E-01	1.71E-06	3.93E-06	6.41E-01	6.80E-02	3.36E-05
Iowa	Palo Alto County	19147	R	1.53E-05	3.39E-03	2.06E-03	3.98E-02	7.38E-03	3.02E-05	8.60E-07	4.97E-01	2.34E-07	8.42E-07	6.37E-01	6.79E-02	4.84E-06
Iowa	Plymouth County	19149	R	2.01E-05	3.97E-03	3.80E-03	4.85E-02	5.99E-03	3.82E-05	4.95E-06	4.88E-01	6.39E-07	2.31E-06	6.35E-01	6.81E-02	1.62E-05
Iowa	Pocahontas County	19151	R	3.33E-06	2.24E-03	1.57E-03	3.80E-02	4.31E-03	8.13E-06	7.20E-07	4.55E-01	1.85E-07	6.80E-07	6.42E-01	6.78E-02	5.74E-06
Iowa	Polk County	19153	U	1.72E-04	7.54E-02	5.18E-02	4.52E-01	5.77E-02	3.30E-04	2.61E-05	1.36E+00	7.52E-06	1.75E-05	6.40E-01	6.86E-02	2.46E-04
Iowa	Pottawattamie County	19155	U	7.35E-05	4.57E-02	4.22E-02	3.05E-01	4.36E-02	1.07E-04	1.96E-04	1.01E+00	1.52E-05	3.11E-05	6.40E-01	6.84E-02	1.45E-04
Iowa	Poweshiek County	19157	R	9.97E-06	2.13E-03	1.85E-03	3.14E-02	4.61E-03	2.14E-05	2.54E-06	4.54E-01	3.03E-07	1.07E-06	6.43E-01	6.79E-02	1.59E-05

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa												
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
Iowa	Des Moines County	19057	U	0.00E+00	4.98E-01	6.08E-03	5.25E-02	2.12E-04	3.12E-01	7.51E-05	7.65E-08	1.63E-02	1.43E-03	1.23E-03	1.90E-01	8.39E-04
Iowa	Dickinson County	19059	R	0.00E+00	4.51E-01	6.08E-03	5.23E-02	8.13E-05	3.33E-01	7.51E-05	0.00E+00	2.85E-05	7.30E-05	1.19E-03	1.32E-01	5.81E-05
Iowa	Dubuque County	19061	U	0.00E+00	6.91E-01	6.08E-03	5.25E-02	5.62E-04	3.95E-01	7.51E-05	2.07E-08	2.79E-03	1.97E-03	1.25E-03	3.05E-01	3.09E-04
Iowa	Emmet County	19063	U	0.00E+00	4.55E-01	6.09E-03	5.26E-02	1.73E-04	2.87E-01	7.52E-05	2.07E-13	6.47E-05	1.55E-04	1.20E-03	1.40E-01	5.95E-05
Iowa	Fayette County	19065	R	0.00E+00	3.91E-01	6.08E-03	5.27E-02	5.76E-05	2.34E-01	7.52E-05	1.53E-11	4.87E-05	4.71E-05	1.20E-03	1.27E-01	2.21E-05
Iowa	Floyd County	19067	R	0.00E+00	4.10E-01	6.09E-03	5.27E-02	8.41E-05	2.32E-01	7.53E-05	3.50E-09	7.76E-05	7.33E-05	1.20E-03	1.50E-01	4.47E-05
Iowa	Franklin County	19069	R	0.00E+00	4.57E-01	6.07E-03	5.21E-02	1.33E-04	2.55E-01	7.51E-05	3.74E-08	7.19E-05	7.99E-05	1.19E-03	1.33E-01	5.55E-05
Iowa	Fremont County	19071	R	0.00E+00	4.01E-01	6.10E-03	5.26E-02	4.75E-05	2.27E-01	7.52E-05	2.88E-09	1.36E-04	2.36E-03	1.21E-03	1.24E-01	1.04E-03
Iowa	Greene County	19073	R	0.00E+00	3.92E-01	6.08E-03	5.25E-02	8.89E-05	2.21E-01	7.52E-05	5.18E-11	1.85E-05	3.85E-05	1.19E-03	1.25E-01	1.43E-05
Iowa	Grundy County	19075	R	0.00E+00	4.03E-01	6.08E-03	5.24E-02	5.52E-05	2.49E-01	7.52E-05	8.77E-10	3.18E-05	6.39E-05	1.20E-03	1.29E-01	4.41E-05
Iowa	Guthrie County	19077	R	0.00E+00	3.50E-01	6.10E-03	5.21E-02	1.57E-05	2.22E-01	7.52E-05	1.97E-11	9.65E-06	2.68E-05	1.20E-03	1.24E-01	6.42E-06
Iowa	Hamilton County	19079	R	0.00E+00	3.98E-01	6.08E-03	5.23E-02	6.29E-05	2.36E-01	7.51E-05	2.22E-10	1.15E-04	5.44E-05	1.21E-03	1.27E-01	5.25E-05
Iowa	Hancock County	19081	R	0.00E+00	3.95E-01	6.08E-03	5.24E-02	2.19E-05	2.16E-01	7.50E-05	7.98E-09	4.53E-05	1.54E-04	1.19E-03	1.25E-01	3.92E-05
Iowa	Hardin County	19083	R	0.00E+00	4.22E-01	6.08E-03	5.26E-02	1.01E-04	2.30E-01	7.53E-05	7.05E-09	6.26E-05	6.88E-05	1.20E-03	1.29E-01	6.79E-05
Iowa	Harrison County	19085	R	0.00E+00	4.44E-01	6.08E-03	5.25E-02	3.47E-05	2.47E-01	7.51E-05	8.71E-10	1.84E-04	7.72E-05	1.20E-03	1.31E-01	1.43E-05
Iowa	Henry County	19087	R	0.00E+00	4.01E-01	6.07E-03	5.25E-02	5.61E-05	2.51E-01	7.52E-05	1.84E-09	4.85E-04	4.89E-03	1.20E-03	1.31E-01	2.03E-04
Iowa	Howard County	19089	R	0.00E+00	3.56E-01	6.09E-03	5.24E-02	1.96E-05	2.17E-01	7.51E-05	1.59E-11	1.01E-05	1.94E-05	1.19E-03	1.24E-01	1.25E-05
Iowa	Humboldt County	19091	R	0.00E+00	5.52E-01	6.07E-03	5.26E-02	1.68E-04	2.49E-01	7.54E-05	8.12E-09	1.70E-04	1.96E-04	1.20E-03	1.38E-01	1.10E-04
Iowa	Ida County	19093	R	0.00E+00	4.08E-01	6.07E-03	5.24E-02	1.16E-04	2.40E-01	7.50E-05	7.54E-11	2.85E-05	3.54E-05	1.19E-03	1.28E-01	4.77E-05
Iowa	Iowa County	19095	R	0.00E+00	3.43E-01	6.08E-03	5.27E-02	7.95E-05	2.30E-01	7.52E-05	3.37E-10	5.93E-05	1.00E-04	1.20E-03	1.29E-01	8.85E-05
Iowa	Jackson County	19097	R	0.00E+00	5.35E-01	6.09E-03	5.25E-02	2.88E-04	2.53E-01	7.52E-05	4.55E-10	3.88E-04	2.18E-04	1.21E-03	1.38E-01	4.41E-05
Iowa	Jasper County	19099	R	0.00E+00	4.24E-01	6.08E-03	5.27E-02	1.94E-04	3.09E-01	7.52E-05	6.22E-09	1.05E-04	1.26E-04	1.21E-03	1.50E-01	1.05E-04
Iowa	Jefferson County	19101	U	0.00E+00	4.07E-01	6.08E-03	5.27E-02	1.23E-04	2.50E-01	7.51E-05	7.65E-09	5.45E-05	1.11E-03	1.19E-03	1.45E-01	1.53E-04
Iowa	Johnson County	19103	U	0.00E+00	7.18E-01	6.07E-03	5.27E-02	3.87E-03	4.35E-01	7.51E-05	2.89E-07	4.07E-04	9.51E-04	1.32E-03	6.34E-01	5.19E-04
Iowa	Jones County	19105	R	0.00E+00	5.03E-01	6.08E-03	5.29E-02	1.13E-04	2.65E-01	7.52E-05	5.77E-11	1.61E-04	1.33E-04	1.20E-03	1.44E-01	4.45E-05
Iowa	Keokuk County	19107	R	0.00E+00	3.10E-01	6.07E-03	5.24E-02	1.34E-05	2.05E-01	7.49E-05	1.31E-11	1.80E-05	2.47E-05	1.19E-03	1.24E-01	1.44E-05
Iowa	Kossuth County	19109	R	0.00E+00	4.06E-01	6.08E-03	5.27E-02	2.19E-05	2.15E-01	7.54E-05	2.54E-10	3.24E-05	1.89E-04	1.19E-03	1.24E-01	1.69E-05
Iowa	Lee County	19111	U	0.00E+00	4.70E-01	6.08E-03	5.24E-02	3.52E-04	3.10E-01	7.52E-05	1.11E-07	5.02E-04	4.06E-03	1.21E-03	1.54E-01	1.79E-03
Iowa	Linn County	19113	U	0.00E+00	7.33E-01	6.08E-03	5.25E-02	1.93E-03	4.79E-01	7.52E-05	1.23E-08	6.12E-04	1.52E-03	1.30E-03	2.31E-01	4.09E-03
Iowa	Louisa County	19115	R	0.00E+00	4.54E-01	6.09E-03	5.24E-02	3.82E-05	2.58E-01	7.52E-05	1.57E-09	9.66E-05	5.04E-04	1.20E-03	1.35E-01	5.86E-05
Iowa	Lucas County	19117	R	0.00E+00	3.48E-01	6.07E-03	5.24E-02	1.85E-04	2.60E-01	7.50E-05	5.17E-11	4.63E-05	8.74E-05	1.19E-03	1.37E-01	5.72E-05
Iowa	Lyon County	19119	R	0.00E+00	3.39E-01	6.09E-03	5.29E-02	4.33E-05	2.22E-01	7.51E-05	1.85E-10	5.23E-05	3.28E-05	1.19E-03	1.25E-01	1.47E-05
Iowa	Madison County	19121	R	0.00E+00	3.79E-01	6.07E-03	5.26E-02	1.16E-04	2.82E-01	7.50E-05	1.15E-10	1.66E-04	9.03E-05	1.20E-03	1.36E-01	5.43E-05
Iowa	Mahaska County	19123	R	0.00E+00	5.09E-01	6.08E-03	5.25E-02	1.79E-04	2.92E-01	7.52E-05	6.72E-11	8.93E-05	2.44E-04	1.20E-03	1.57E-01	1.38E-04
Iowa	Marion County	19125	U	0.00E+00	4.73E-01	6.08E-03	5.27E-02	1.08E-03	2.66E-01	7.53E-05	1.61E-10	1.30E-04	2.83E-04	1.21E-03	1.81E-01	2.98E-04
Iowa	Marshall County	19127	U	0.00E+00	6.43E-01	6.08E-03	5.26E-02	6.38E-04	3.50E-01	7.52E-05	3.93E-08	1.73E-04	5.26E-04	1.22E-03	1.85E-01	2.65E-03
Iowa	Mills County	19129	R	0.00E+00	4.61E-01	6.08E-03	5.41E-02	1.03E-04	3.09E-01	7.52E-05	9.51E-10	1.24E-03	1.71E-03	1.26E-03	1.57E-01	6.15E-04
Iowa	Mitchell County	19131	R	0.00E+00	3.75E-01	6.08E-03	5.22E-02	3.04E-05	2.12E-01	7.49E-05	3.09E-09	3.27E-05	2.13E-05	1.19E-03	1.29E-01	1.86E-05
Iowa	Monona County	19133	R	0.00E+00	3.43E-01	6.09E-03	5.28E-02	5.02E-05	2.22E-01	7.52E-05	9.47E-11	4.33E-05	3.96E-05	1.20E-03	1.25E-01	2.04E-05
Iowa	Monroe County	19135	R	0.00E+00	2.87E-01	6.08E-03	5.24E-02	5.46E-05	2.21E-01	7.52E-05	7.21E-09	3.74E-05	4.41E-05	1.19E-03	1.25E-01	3.09E-05
Iowa	Montgomery County	19137	U	0.00E+00	4.84E-01	6.08E-03	5.26E-02	1.94E-04	2.36E-01	7.53E-05	1.23E-08	5.97E-05	1.43E-03	1.20E-03	1.44E-01	1.31E-04
Iowa	Muscatine County	19139	U	0.00E+00	6.08E-01	6.08E-03	5.29E-02	5.89E-04	3.57E-01	7.51E-05	2.61E-07	2.93E-04	8.11E-04	1.23E-03	1.91E-01	3.60E-04
Iowa	O'Brien County	19141	R	0.00E+00	3.53E-01	6.09E-03	5.26E-02	5.35E-05	2.16E-01	7.52E-05	7.09E-11	2.05E-05	2.80E-05	1.20E-03	1.25E-01	1.12E-05
Iowa	Osceola County	19143	R	0.00E+00	3.80E-01	6.08E-03	5.27E-02	3.11E-05	2.18E-01	7.52E-05	0.00E+00	2.58E-05	2.45E-05	1.19E-03	1.25E-01	2.15E-05
Iowa	Page County	19145	U	0.00E+00	5.36E-01	6.07E-03	5.26E-02	6.49E-04	2.53E-01	7.54E-05	5.93E-09	1.14E-04	1.11E-03	1.21E-03	1.45E-01	1.14E-04
Iowa	Palo Alto County	19147	R	0.00E+00	4.05E-01	6.08E-03	5.27E-02	3.87E-05	2.21E-01	7.53E-05	5.82E-12	1.59E-05	5.55E-05	1.19E-03	1.24E-01	1.32E-05
Iowa	Plymouth County	19149	R	0.00E+00	3.37E-01	6.08E-03	5.29E-02	1.12E-04	2.28E-01	7.53E-05	4.24E-10	5.10E-05	6.12E-05	1.20E-03	1.31E-01	4.13E-05
Iowa	Pocahontas County	19151	R	0.00E+00	3.77E-01	6.08E-03	5.26E-02	2.59E-05	2.14E-01	7.52E-05	5.72E-11	2.72E-05	1.99E-05	1.19E-03	1.23E-01	1.37E-05
Iowa	Polk County	19153	U	0.00E+00	7.96E-01	6.08E-03	5.26E-02	1.55E-03	6.20E-01	7.51E-05	2.23E-08	1.08E-03	8.65E-04	1.26E-03	2.29E-01	3.58E-04
Iowa	Pottawattamie County	19155	U	0.00E+00	6.48E-01	6.08E-03	5.46E-02	4.50E-04	5.01E-01	7.51E-05	9.05E-09	6.91E-03	2.10E-03	1.28E-03	4.80E-01	3.40E-04
Iowa	Poweshiek County	19157	R	0.00E+00	3.38E-01	6.08E-03	5.23E-02	2.93E-05	2.09E-01	7.52E-05	1.46E-10	1.55E-05	3.08E-05	1.19E-03	1.28E-01	3.25E-05

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Iowa	Des Moines County	19057	U	3.00E-04	1.25E-01	2.25E-02	9.09E-06	2.19E-07	7.98E-02	1.56E-04					
Iowa	Dickinson County	19059	R	3.00E-04	1.10E-01	6.49E-03	3.84E-06	0.00E+00	6.90E-02	8.46E-05					
Iowa	Dubuque County	19061	U	3.00E-04	1.56E-01	4.29E-02	1.05E-05	6.06E-08	8.86E-02	2.07E-04					
Iowa	Emmet County	19063	U	3.01E-04	1.16E-01	1.25E-02	8.78E-07	3.39E-12	7.04E-02	2.18E-05					
Iowa	Fayette County	19065	R	3.00E-04	1.12E-01	3.11E-03	2.46E-06	3.17E-10	6.88E-02	4.97E-05					
Iowa	Floyd County	19067	R	3.01E-04	1.14E-01	5.28E-03	8.77E-07	1.41E-08	6.90E-02	1.24E-05					
Iowa	Franklin County	19069	R	2.99E-04	1.09E-01	7.09E-03	3.80E-06	9.97E-08	6.89E-02	6.31E-05					
Iowa	Fremont County	19071	R	3.01E-04	1.08E-01	1.90E-03	6.77E-07	1.75E-08	6.83E-02	9.31E-06					
Iowa	Greene County	19073	R	3.00E-04	1.09E-01	2.80E-03	8.98E-07	1.58E-09	6.81E-02	1.66E-05					
Iowa	Grundy County	19075	R	3.00E-04	1.10E-01	3.04E-03	2.63E-06	6.39E-09	6.91E-02	5.23E-05					
Iowa	Guthrie County	19077	R	3.01E-04	1.09E-01	2.07E-03	5.74E-07	3.09E-10	6.82E-02	1.08E-05					
Iowa	Hamilton County	19079	R	3.00E-04	1.10E-01	3.07E-03	1.18E-06	5.16E-09	6.84E-02	2.05E-05					
Iowa	Hancock County	19081	R	3.00E-04	1.06E-01	2.39E-03	3.05E-06	2.39E-08	6.78E-02	5.94E-05					
Iowa	Hardin County	19083	R	3.00E-04	1.08E-01	4.28E-03	4.23E-06	2.50E-08	6.91E-02	7.97E-05					
Iowa	Harrison County	19085	R	3.00E-04	1.08E-01	3.08E-03	1.10E-06	3.02E-09	6.81E-02	8.67E-06					
Iowa	Henry County	19087	R	3.00E-04	1.11E-01	4.78E-03	5.48E-06	2.30E-08	7.66E-02	1.11E-04					
Iowa	Howard County	19089	R	3.01E-04	1.07E-01	2.66E-03	2.40E-06	3.07E-10	6.77E-02	5.74E-05					
Iowa	Humboldt County	19091	R	3.00E-04	1.15E-01	8.25E-03	2.25E-06	2.48E-08	6.96E-02	4.10E-05					
Iowa	Ida County	19093	R	3.00E-04	1.07E-01	3.49E-03	8.55E-07	1.40E-09	6.83E-02	1.68E-05					
Iowa	Iowa County	19095	R	3.00E-04	1.08E-01	2.54E-03	5.55E-06	7.83E-09	6.87E-02	1.16E-04					
Iowa	Jackson County	19097	R	3.01E-04	1.10E-01	6.58E-03	2.65E-06	9.95E-09	7.06E-02	7.19E-05					
Iowa	Jasper County	19099	R	3.00E-04	1.18E-01	7.59E-03	7.35E-06	2.77E-08	7.23E-02	2.74E-04					
Iowa	Jefferson County	19101	U	3.00E-04	1.20E-01	9.71E-03	8.84E-07	1.90E-08	7.34E-02	1.25E-05					
Iowa	Johnson County	19103	U	3.00E-04	1.60E-01	3.68E-02	1.44E-05	8.20E-07	8.81E-02	1.73E-04					
Iowa	Jones County	19105	R	3.00E-04	1.10E-01	6.68E-03	2.00E-06	1.21E-09	6.88E-02	4.05E-05					
Iowa	Keokuk County	19107	R	3.00E-04	1.07E-01	1.26E-03	2.54E-06	1.67E-10	6.93E-02	5.38E-05					
Iowa	Kossuth County	19109	R	3.00E-04	1.08E-01	2.55E-03	2.51E-06	2.49E-09	6.81E-02	5.41E-05					
Iowa	Lee County	19111	U	3.00E-04	1.38E-01	3.75E-02	5.95E-06	3.09E-07	1.14E-01	4.59E-05					
Iowa	Linn County	19113	U	3.00E-04	1.53E-01	3.76E-02	4.84E-06	6.06E-08	8.29E-02	7.12E-05					
Iowa	Louisa County	19115	R	3.01E-04	1.11E-01	4.54E-03	6.93E-06	3.45E-08	7.16E-02	1.41E-04					
Iowa	Lucas County	19117	R	3.00E-04	1.11E-01	7.25E-03	5.35E-07	1.04E-09	7.10E-02	8.79E-06					
Iowa	Lyon County	19119	R	3.01E-04	1.07E-01	3.07E-03	9.85E-07	3.22E-09	6.81E-02	2.82E-05					
Iowa	Madison County	19121	R	3.00E-04	1.18E-01	5.32E-03	3.92E-06	3.02E-09	7.14E-02	8.03E-05					
Iowa	Mahaska County	19123	R	3.00E-04	1.24E-01	1.53E-02	4.01E-06	8.50E-10	7.23E-02	8.36E-05					
Iowa	Marion County	19125	U	3.00E-04	1.44E-01	1.79E-02	4.89E-06	2.62E-09	7.53E-02	1.05E-04					
Iowa	Marshall County	19127	U	3.00E-04	1.33E-01	3.09E-02	6.53E-06	1.14E-07	7.68E-02	1.16E-04					
Iowa	Mills County	19129	R	3.00E-04	1.37E-01	1.15E-02	5.20E-06	1.51E-08	7.13E-02	3.89E-05					
Iowa	Mitchell County	19131	R	3.00E-04	1.07E-01	4.18E-03	1.12E-06	1.23E-08	6.76E-02	3.72E-05					
Iowa	Monona County	19133	R	3.00E-04	1.08E-01	1.64E-03	2.54E-07	1.59E-09	6.84E-02	3.86E-06					
Iowa	Monroe County	19135	R	3.00E-04	1.08E-01	2.55E-03	1.95E-06	2.05E-08	6.81E-02	3.70E-05					
Iowa	Montgomery County	19137	U	3.00E-04	1.17E-01	9.65E-03	1.61E-06	3.17E-08	7.11E-02	2.67E-05					
Iowa	Muscatine County	19139	U	3.13E-04	1.59E-01	3.08E-02	2.36E-05	1.34E-06	8.04E-02	3.78E-04					
Iowa	O'Brien County	19141	R	3.01E-04	1.07E-01	1.87E-03	1.29E-06	1.28E-09	6.81E-02	2.73E-05					
Iowa	Osceola County	19143	R	3.00E-04	1.07E-01	4.14E-03	6.94E-07	0.00E+00	6.79E-02	3.49E-05					
Iowa	Page County	19145	U	3.00E-04	1.17E-01	1.22E-02	7.96E-07	1.66E-08	7.12E-02	1.06E-05					
Iowa	Palo Alto County	19147	R	3.00E-04	1.09E-01	2.19E-03	1.78E-06	1.93E-10	6.83E-02	3.64E-05					
Iowa	Plymouth County	19149	R	3.00E-04	1.11E-01	3.59E-03	2.35E-06	6.07E-09	7.00E-02	4.73E-05					
Iowa	Pocahontas County	19151	R	3.00E-04	1.07E-01	1.51E-03	4.39E-07	1.47E-09	6.78E-02	7.81E-06					
Iowa	Polk County	19153	U	3.00E-04	2.04E-01	4.47E-02	2.13E-05	8.19E-08	1.03E-01	4.13E-04					
Iowa	Pottawattamie County	19155	U	3.00E-04	1.34E-01	3.82E-02	1.88E-05	3.84E-08	8.33E-02	1.42E-04					
Iowa	Poweshiek County	19157	R	3.00E-04	1.08E-01	1.86E-03	1.25E-06	2.89E-09	6.93E-02	3.47E-05					

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa												
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
Iowa	Ringgold County	19159	R	3.72E-06	3.12E-03	1.25E-03	2.34E-02	5.12E-03	8.21E-06	4.38E-07	4.50E-01	1.24E-07	4.95E-07	6.38E-01	6.79E-02	5.69E-06
Iowa	Sac County	19161	R	6.69E-06	2.82E-03	1.96E-03	4.33E-02	5.32E-03	1.44E-05	7.72E-07	4.68E-01	2.19E-07	7.78E-07	6.43E-01	6.77E-02	1.26E-04
Iowa	Scott County	19163	U	2.47E-04	6.60E-02	6.43E-02	4.58E-01	5.67E-02	1.79E-03	9.01E-05	1.30E+00	1.21E-05	2.93E-05	6.42E-01	6.86E-02	3.46E-03
Iowa	Shelby County	19165	R	5.27E-06	4.40E-03	3.85E-03	4.54E-02	5.64E-03	1.32E-05	1.65E-06	4.80E-01	4.85E-07	1.56E-06	6.41E-01	6.78E-02	1.01E-05
Iowa	Sioux County	19167	R	6.50E-05	4.03E-03	3.50E-03	4.66E-02	6.19E-03	1.17E-04	1.50E-06	4.86E-01	3.67E-07	1.14E-06	6.39E-01	6.79E-02	7.06E-06
Iowa	Story County	19169	U	5.13E-05	2.67E-02	3.39E-02	1.59E-01	2.39E-02	1.07E-04	5.43E-05	7.38E-01	5.53E-06	8.67E-05	6.40E-01	6.82E-02	7.38E-05
Iowa	Tama County	19171	R	2.20E-05	3.81E-03	3.28E-03	6.44E-02	8.34E-03	4.31E-05	5.57E-06	4.93E-01	5.88E-07	1.75E-06	6.42E-01	6.79E-02	6.04E-05
Iowa	Taylor County	19173	R	8.49E-06	2.11E-03	1.08E-03	2.44E-02	4.76E-03	1.63E-05	4.74E-07	4.40E-01	1.18E-07	4.53E-07	6.44E-01	6.77E-02	1.91E-05
Iowa	Union County	19175	U	1.18E-05	7.96E-03	1.10E-02	3.62E-02	6.86E-03	2.98E-05	4.85E-06	5.03E-01	1.33E-06	2.37E-06	6.38E-01	6.79E-02	1.78E-05
Iowa	Van Buren County	19177	R	3.60E-06	4.59E-03	1.42E-03	2.45E-02	6.56E-03	8.39E-06	5.19E-07	4.62E-01	1.38E-07	3.83E-07	6.36E-01	6.79E-02	1.32E-05
Iowa	Wapello County	19179	U	2.12E-05	1.77E-02	1.73E-02	5.33E-02	1.39E-02	4.30E-05	1.10E-05	5.70E-01	2.01E-06	4.48E-06	6.38E-01	6.79E-02	4.81E-04
Iowa	Warren County	19181	U	4.24E-05	2.22E-02	2.11E-02	1.88E-01	2.72E-02	8.84E-05	7.82E-06	7.34E-01	2.25E-06	5.58E-06	6.42E-01	6.82E-02	5.98E-05
Iowa	Washington County	19183	R	1.40E-05	4.55E-03	3.35E-03	5.69E-02	9.71E-03	3.17E-05	9.17E-06	5.00E-01	7.80E-07	2.70E-06	6.38E-01	6.79E-02	6.20E-05
Iowa	Wayne County	19185	R	2.91E-06	2.74E-03	1.07E-03	1.90E-02	4.30E-03	6.50E-06	6.57E-07	4.43E-01	1.20E-07	3.02E-07	6.43E-01	6.77E-02	2.45E-06
Iowa	Webster County	19187	U	3.02E-05	2.05E-02	2.39E-02	1.06E-01	1.79E-02	6.66E-05	1.03E-05	6.32E-01	2.75E-06	7.99E-06	6.39E-01	6.81E-02	1.07E-04
Iowa	Winnebago County	19189	R	1.38E-04	2.99E-03	1.69E-03	3.01E-02	5.95E-03	2.45E-04	8.18E-07	4.51E-01	2.01E-07	8.29E-07	6.37E-01	6.79E-02	4.25E-05
Iowa	Winneshiek County	19191	R	2.56E-05	3.53E-03	2.09E-03	3.84E-02	1.01E-02	4.74E-05	1.68E-06	4.75E-01	2.78E-07	8.59E-07	6.42E-01	6.77E-02	8.22E-06
Iowa	Woodbury County	19193	U	1.17E-04	3.53E-02	4.04E-02	1.69E-01	2.30E-02	2.58E-04	2.84E-05	8.38E-01	6.06E-06	2.30E-05	6.39E-01	6.88E-02	1.06E-04
Iowa	Worth County	19195	R	2.04E-05	2.90E-03	2.19E-03	3.50E-02	6.65E-03	4.84E-05	1.04E-06	4.65E-01	2.53E-07	1.19E-06	6.41E-01	6.80E-02	8.51E-05
Iowa	Wright County	19197	R	1.01E-05	2.47E-03	2.39E-03	3.19E-02	3.91E-03	2.10E-05	4.28E-06	4.53E-01	4.38E-07	1.13E-06	6.44E-01	6.77E-02	1.91E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa												
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
Iowa	Ringgold County	19159	R	0.00E+00	3.13E-01	6.09E-03	5.27E-02	1.63E-05	2.08E-01	7.52E-05	8.06E-11	1.13E-05	2.15E-05	1.19E-03	1.22E-01	9.67E-06
Iowa	Sac County	19161	R	0.00E+00	3.62E-01	6.07E-03	5.23E-02	3.92E-05	2.21E-01	7.51E-05	1.08E-11	1.40E-05	2.90E-05	1.19E-03	1.25E-01	1.17E-05
Iowa	Scott County	19163	U	0.00E+00	1.05E+00	6.08E-03	5.26E-02	3.08E-03	6.14E-01	7.51E-05	6.81E-08	9.52E-04	1.87E-03	1.31E-03	3.26E-01	6.11E-04
Iowa	Shelby County	19165	R	0.00E+00	4.49E-01	6.09E-03	5.24E-02	7.82E-05	2.27E-01	7.52E-05	2.36E-11	3.24E-05	5.27E-05	1.20E-03	1.29E-01	2.32E-05
Iowa	Sioux County	19167	R	0.00E+00	3.71E-01	6.07E-03	5.27E-02	8.19E-05	2.30E-01	7.52E-05	4.32E-09	2.46E-05	5.06E-05	1.19E-03	1.29E-01	4.04E-05
Iowa	Story County	19169	U	0.00E+00	5.46E-01	6.08E-03	5.27E-02	7.03E-04	3.58E-01	7.52E-05	8.76E-09	7.65E-04	5.44E-04	1.27E-03	1.70E-01	1.34E-04
Iowa	Tama County	19171	R	0.00E+00	3.92E-01	6.09E-03	5.26E-02	3.09E-05	2.43E-01	7.52E-05	1.51E-10	2.65E-05	5.47E-05	1.20E-03	1.28E-01	6.06E-05
Iowa	Taylor County	19173	R	0.00E+00	2.99E-01	6.08E-03	5.24E-02	1.08E-05	2.18E-01	7.50E-05	4.11E-11	9.97E-06	9.79E-04	1.19E-03	1.24E-01	2.75E-05
Iowa	Union County	19175	U	0.00E+00	3.91E-01	6.07E-03	5.25E-02	1.85E-04	2.24E-01	7.52E-05	6.82E-08	5.08E-05	1.33E-04	1.19E-03	1.45E-01	1.05E-04
Iowa	Van Buren County	19177	R	0.00E+00	3.11E-01	6.09E-03	5.27E-02	2.78E-05	2.18E-01	7.52E-05	4.45E-11	9.62E-06	4.29E-04	1.19E-03	1.24E-01	1.96E-05
Iowa	Wapello County	19179	U	0.00E+00	3.71E-01	6.08E-03	5.26E-02	3.16E-04	2.76E-01	7.51E-05	5.24E-11	1.79E-04	6.92E-04	1.21E-03	1.49E-01	6.22E-04
Iowa	Warren County	19181	U	0.00E+00	5.69E-01	6.08E-03	5.26E-02	1.94E-04	3.88E-01	7.54E-05	4.87E-09	5.47E-04	3.05E-04	1.22E-03	1.89E-01	9.76E-05
Iowa	Washington County	19183	R	0.00E+00	3.94E-01	6.08E-03	5.27E-02	9.38E-05	2.42E-01	7.53E-05	2.62E-10	7.93E-05	7.73E-04	1.21E-03	1.41E-01	6.69E-05
Iowa	Wayne County	19185	R	0.00E+00	2.86E-01	6.08E-03	5.25E-02	2.55E-05	2.06E-01	7.51E-05	6.53E-12	7.54E-06	1.40E-05	1.19E-03	1.22E-01	7.91E-06
Iowa	Webster County	19187	U	0.00E+00	8.29E-01	6.08E-03	5.27E-02	3.94E-04	3.19E-01	7.59E-05	3.66E-08	5.58E-04	3.54E-04	1.23E-03	1.65E-01	1.55E-04
Iowa	Winnebago County	19189	R	0.00E+00	3.65E-01	6.08E-03	5.27E-02	1.72E-05	2.13E-01	7.51E-05	1.79E-10	6.31E-05	3.46E-05	1.19E-03	1.28E-01	2.58E-05
Iowa	Winneshiek County	19191	R	0.00E+00	3.68E-01	6.08E-03	5.23E-02	2.60E-05	2.31E-01	7.50E-05	4.05E-12	1.38E-05	3.11E-05	1.19E-03	1.25E-01	1.74E-05
Iowa	Woodbury County	19193	U	0.00E+00	5.30E-01	6.08E-03	5.26E-02	1.75E-03	3.52E-01	7.52E-05	6.16E-08	6.20E-04	7.00E-04	1.36E-03	2.04E-01	2.90E-04
Iowa	Worth County	19195	R	0.00E+00	3.66E-01	6.08E-03	5.26E-02	3.40E-05	2.15E-01	7.52E-05	1.13E-10	5.84E-05	2.64E-05	1.20E-03	1.40E-01	1.82E-05
Iowa	Wright County	19197	R	0.00E+00	4.16E-01	6.08E-03	5.25E-02	3.51E-05	2.14E-01	7.51E-05	1.35E-10	2.69E-05	1.10E-04	1.19E-03	1.24E-01	2.02E-04

				Estimated Annual Median Exposure Concentrations (ug/m3) for Iowa											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
Iowa	Ringgold County	19159	R	3.00E-04	1.06E-01	1.53E-03	4.74E-07	1.51E-09	6.79E-02	8.78E-06					
Iowa	Sac County	19161	R	3.00E-04	1.12E-01	1.96E-03	8.22E-07	2.38E-10	6.80E-02	1.57E-05					
Iowa	Scott County	19163	U	4.29E-04	2.29E-01	7.69E-02	2.91E-05	5.24E-06	1.33E-01	6.65E-04					
Iowa	Shelby County	19165	R	3.00E-04	1.08E-01	3.60E-03	7.06E-07	5.99E-10	6.89E-02	1.24E-05					
Iowa	Sioux County	19167	R	3.00E-04	1.08E-01	3.36E-03	7.33E-06	2.80E-08	6.88E-02	1.54E-04					
Iowa	Story County	19169	U	3.00E-04	1.55E-01	2.80E-02	6.77E-06	3.23E-08	7.42E-02	1.23E-04					
Iowa	Tama County	19171	R	3.00E-04	1.09E-01	3.37E-03	2.59E-06	2.73E-09	6.92E-02	5.40E-05					
Iowa	Taylor County	19173	R	3.00E-04	1.07E-01	1.45E-03	9.79E-07	7.37E-10	6.75E-02	2.00E-05					
Iowa	Union County	19175	U	3.00E-04	1.23E-01	9.13E-03	2.95E-06	1.73E-07	7.17E-02	3.26E-05					
Iowa	Van Buren County	19177	R	3.01E-04	1.07E-01	1.81E-03	4.67E-07	7.46E-10	6.80E-02	8.51E-06					
Iowa	Wapello County	19179	U	3.00E-04	1.18E-01	1.47E-02	2.51E-06	8.10E-10	7.22E-02	4.99E-05					
Iowa	Warren County	19181	U	3.00E-04	1.33E-01	1.75E-02	5.29E-06	2.08E-08	7.66E-02	1.01E-04					
Iowa	Washington County	19183	R	3.00E-04	1.10E-01	3.51E-03	1.82E-06	6.56E-09	8.61E-02	3.29E-05					
Iowa	Wayne County	19185	R	3.00E-04	1.07E-01	1.23E-03	3.65E-07	1.38E-10	6.76E-02	6.85E-06					
Iowa	Webster County	19187	U	3.00E-04	1.43E-01	2.00E-02	4.59E-06	1.07E-07	7.43E-02	7.45E-05					
Iowa	Winnebago County	19189	R	3.00E-04	1.07E-01	3.04E-03	1.51E-05	3.60E-09	6.85E-02	3.36E-04					
Iowa	Winneshiek County	19191	R	3.00E-04	1.09E-01	4.52E-03	2.89E-06	1.23E-10	6.84E-02	7.07E-05					
Iowa	Woodbury County	19193	U	3.00E-04	1.75E-01	3.69E-02	2.05E-05	2.26E-07	8.26E-02	2.89E-04					
Iowa	Worth County	19195	R	3.00E-04	1.07E-01	4.31E-03	2.51E-06	1.88E-09	6.81E-02	8.89E-05					
Iowa	Wright County	19197	R	3.00E-04	1.08E-01	2.18E-03	1.23E-06	2.87E-09	6.78E-02	2.37E-05					