

US EPA ARCHIVE DOCUMENT

1999 DRAFT Modeled Ambient Concentrations for Manganese Compounds: 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.html](http://www.epa.gov/ttn/atw/nata1999/natsalim2.html)
- 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 locations.
[Background concentrations are the same as those used in the 1996 NATA.](#)
- For formaldehyde and acetaldehyde, secondary contributions were estimated outside of the ASPEN model using the same proportion of secondary to primary concentrations as was used in the 1996 NATA assessment.
- Because the emissions used are from 1999, they do not reflect potentially significant emission reductions that have taken effect since then, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.

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

State	County	FIPS	Urban or Rural	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
National	Nationwide	N/A	N/A	1.50E-05	4.62E-05	1.95E-04	7.75E-04	5.26E-03	2.71E-03	1.07E-02	1.61E-02	2.73E-03	2.48E-03	3.73E-05	1.65E-05	0.00E+00
National	All Urban Counties	N/A	U	3.90E-05	8.69E-05	2.74E-04	9.96E-04	6.01E-03	3.62E-03	1.20E-02	1.73E-02	3.06E-03	2.88E-03	4.53E-05	1.98E-05	0.00E+00
National	All Rural Counties	N/A	R	1.35E-06	4.79E-06	3.56E-05	2.09E-04	2.10E-03	7.62E-04	2.26E-03	5.30E-03	1.30E-03	7.99E-04	3.51E-06	2.19E-06	0.00E+00
Alabama	Statewide	N/A	N/A	7.37E-05	1.29E-04	3.02E-04	8.50E-04	3.96E-03	2.73E-03	9.68E-03	1.61E-02	1.35E-03	2.59E-03	9.22E-06	3.08E-06	0.00E+00
Alabama	All Urban Counties	N/A	U	1.13E-04	1.70E-04	4.09E-04	1.16E-03	5.07E-03	4.37E-03	1.15E-02	1.93E-02	1.90E-03	3.15E-03	1.25E-05	4.51E-06	0.00E+00
Alabama	All Rural Counties	N/A	R	1.93E-05	7.69E-05	2.06E-04	5.43E-04	1.97E-03	1.33E-03	3.40E-03	6.24E-03	3.81E-04	1.58E-03	3.36E-06	5.26E-07	0.00E+00
Alabama	Autauga County	01001	U	2.90E-04	3.22E-04	3.46E-04	3.73E-04	4.08E-04	4.25E-04	5.33E-04	6.94E-04	2.90E-04	1.10E-04	7.45E-06	6.98E-07	0.00E+00
Alabama	Baldwin County	01003	U	1.08E-04	1.87E-04	2.22E-04	3.98E-04	4.29E-04	5.69E-04	6.97E-04	8.55E-04	3.54E-04	6.56E-05	3.75E-06	6.18E-06	0.00E+00
Alabama	Barbour County	01005	R	3.58E-04	3.58E-04	7.63E-04	1.23E-03	1.20E-03	1.51E-03	2.21E-03	2.21E-03	1.64E-05	1.18E-03	2.94E-06	3.31E-07	0.00E+00
Alabama	Bibb County	01007	R	1.49E-03	1.49E-03	1.49E-03	2.00E-03	2.27E-03	3.31E-03	3.31E-03	3.31E-03	3.92E-04	1.87E-03	2.67E-06	2.52E-07	0.00E+00
Alabama	Blount County	01009	U	1.64E-05	1.64E-05	1.41E-04	3.26E-04	4.19E-04	7.13E-04	9.74E-04	9.74E-04	2.53E-04	1.61E-04	7.45E-06	3.89E-07	0.00E+00
Alabama	Bullock County	01011	R	4.12E-05	4.12E-05	3.48E-04	9.04E-04	8.54E-04	1.36E-03	1.56E-03	1.56E-03	6.27E-06	8.46E-04	1.03E-06	8.92E-08	0.00E+00
Alabama	Butler County	01013	R	3.72E-04	3.72E-04	7.25E-04	1.02E-03	9.99E-04	1.17E-03	1.99E-03	1.99E-03	9.48E-04	4.74E-05	4.01E-06	2.36E-07	0.00E+00
Alabama	Calhoun County	01015	R	1.27E-04	1.37E-04	1.79E-04	2.31E-04	6.14E-04	4.51E-04	1.18E-03	4.22E-03	4.16E-05	5.64E-04	7.08E-06	1.23E-06	0.00E+00
Alabama	Chambers County	01017	U	8.49E-05	8.49E-05	6.28E-04	7.92E-04	6.83E-04	8.50E-04	8.75E-04	8.75E-04	3.04E-04	3.68E-04	9.62E-06	4.84E-07	0.00E+00
Alabama	Cherokee County	01019	R	5.51E-04	5.51E-04	6.10E-04	6.12E-04	8.06E-04	7.65E-04	1.49E-03	1.49E-03	3.91E-04	4.12E-04	2.34E-06	3.34E-07	0.00E+00
Alabama	Chilton County	01021	R	4.24E-04	4.24E-04	5.51E-04	8.43E-04	1.05E-03	1.39E-03	2.69E-03	2.69E-03	1.84E-04	8.63E-04	3.11E-06	2.04E-07	0.00E+00
Alabama	Choctaw County	01023	R	8.48E-05	8.48E-05	9.72E-05	1.63E-04	1.81E-04	2.64E-04	3.12E-04	3.12E-04	9.22E-05	8.76E-05	7.17E-07	7.98E-08	0.00E+00
Alabama	Clarke County	01025	R	2.08E-04	2.08E-04	2.60E-04	3.03E-04	3.38E-04	3.97E-04	5.87E-04	5.87E-04	2.73E-04	6.35E-05	8.45E-07	1.52E-07	0.00E+00
Alabama	Clay County	01027	R	1.33E-04	1.33E-04	1.81E-04	2.49E-04	2.37E-04	2.94E-04	3.19E-04	3.19E-04	7.18E-05	1.64E-04	1.34E-06	1.39E-07	0.00E+00
Alabama	Cleburne County	01029	R	5.01E-05	5.01E-05	7.46E-05	1.15E-04	1.26E-04	1.78E-04	2.25E-04	2.25E-04	1.33E-05	1.09E-04	3.32E-06	1.70E-07	0.00E+00
Alabama	Coffee County	01031	U	2.19E-06	2.19E-06	3.56E-06	4.81E-05	5.28E-05	9.83E-05	1.13E-04	1.14E-04	0.00E+00	4.83E-05	4.28E-06	2.36E-07	0.00E+00
Alabama	Colbert County	01033	U	2.63E-03	8.37E-03	9.24E-03	1.67E-02	1.97E-02	2.33E-02	4.20E-02	5.05E-02	1.96E-04	1.95E-02	8.50E-06	1.39E-06	0.00E+00
Alabama	Conecuh County	01035	R	4.08E-04	4.08E-04	5.64E-04	7.39E-04	7.73E-04	8.28E-04	1.33E-03	1.33E-03	5.75E-04	1.96E-04	1.64E-06	8.82E-08	0.00E+00
Alabama	Coosa County	01037	R	1.06E-03	1.06E-03	1.06E-03	2.87E-03	2.60E-03	3.88E-03	3.88E-03	3.88E-03	7.89E-04	1.81E-03	1.53E-06	1.63E-07	0.00E+00
Alabama	Covington County	01039	R	3.03E-06	4.20E-06	1.25E-05	1.76E-05	5.37E-05	1.15E-04	1.61E-04	1.70E-04	3.92E-05	1.16E-05	2.62E-06	2.35E-07	0.00E+00
Alabama	Crenshaw County	01041	R	2.06E-04	2.06E-04	2.11E-04	2.64E-04	2.85E-04	3.49E-04	4.17E-04	4.17E-04	2.76E-04	8.20E-06	1.11E-06	1.29E-07	0.00E+00
Alabama	Cullman County	01043	R	8.55E-06	9.95E-06	2.05E-05	3.24E-05	1.25E-04	2.25E-04	4.13E-04	4.53E-04	8.50E-05	3.64E-05	3.67E-06	3.96E-07	0.00E+00
Alabama	Dale County	01045	R	1.13E-04	1.19E-04	1.27E-04	1.39E-04	2.81E-04	1.99E-04	1.05E-03	1.11E-03	1.16E-04	1.60E-04	4.65E-06	2.96E-07	0.00E+00
Alabama	Dallas County	01047	R	2.88E-04	3.19E-04	4.32E-04	9.29E-04	9.23E-04	1.26E-03	1.59E-03	1.76E-03	6.85E-04	2.34E-04	3.77E-06	3.63E-07	0.00E+00
Alabama	DeKalb County	01049	R	3.04E-04	3.39E-04	8.48E-04	1.18E-03	1.98E-03	1.64E-03	7.05E-03	8.25E-03	9.76E-04	9.95E-04	4.01E-06	4.67E-07	0.00E+00
Alabama	Elmore County	01051	U	9.61E-05	1.40E-04	2.71E-04	3.54E-04	4.83E-04	6.55E-04	8.37E-04	1.14E-03	5.29E-05	4.24E-04	6.44E-06	4.48E-07	0.00E+00
Alabama	Escambia County	01053	R	1.50E-04	1.50E-04	1.86E-04	3.46E-04	4.96E-04	7.09E-04	1.16E-03	1.16E-03	2.23E-04	2.70E-04	2.56E-06	3.37E-07	0.00E+00
Alabama	Etowah County	01055	U	2.24E-04	2.58E-04	3.76E-04	9.05E-04	3.47E-03	3.00E-03	1.55E-02	1.61E-02	1.56E-03	1.90E-03	1.08E-05	6.94E-07	0.00E+00
Alabama	Fayette County	01057	R	5.03E-04	5.03E-04	6.53E-04	7.89E-04	9.82E-04	1.21E-03	1.76E-03	1.76E-03	6.06E-04	3.74E-04	1.38E-06	1.77E-07	0.00E+00
Alabama	Franklin County	01059	R	2.16E-04	2.16E-04	2.54E-04	2.43E-03	2.21E-03	3.54E-03	4.09E-03	4.09E-03	5.36E-05	2.15E-03	2.59E-06	4.21E-07	0.00E+00
Alabama	Geneva County	01061	R	3.20E-06	3.20E-06	6.45E-06	5.17E-05	3.37E-04	8.40E-04	1.07E-03	1.07E-03	2.78E-04	5.59E-05	2.33E-06	2.42E-07	0.00E+00

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Alabama	Greene County	01063	R	1.51E-04	1.51E-04	1.51E-04	3.40E-04	3.64E-04	6.01E-04	6.01E-04	6.01E-04	7.63E-06	3.54E-04	1.71E-06	3.55E-07	0.00E+00
Alabama	Hale County	01065	R	1.55E-04	1.55E-04	2.18E-04	2.75E-04	3.69E-04	3.56E-04	9.36E-04	9.36E-04	2.46E-05	3.43E-04	1.51E-06	2.02E-07	0.00E+00
Alabama	Henry County	01067	R	5.67E-04	5.67E-04	7.25E-04	8.23E-04	1.21E-03	2.11E-03	2.21E-03	2.21E-03	2.87E-04	9.21E-04	1.56E-06	2.45E-07	0.00E+00
Alabama	Houston County	01069	U	1.19E-03	1.25E-03	1.66E-03	2.25E-03	2.80E-03	2.65E-03	3.98E-03	7.61E-03	1.35E-03	1.44E-03	8.81E-06	5.92E-07	0.00E+00
Alabama	Jackson County	01071	R	1.39E-04	5.33E-04	5.69E-04	7.74E-04	9.65E-04	1.23E-03	1.90E-03	1.90E-03	7.96E-04	1.64E-04	3.60E-06	1.11E-06	0.00E+00
Alabama	Jefferson County	01073	U	2.30E-03	2.79E-03	4.22E-03	8.98E-03	1.38E-02	1.14E-02	2.17E-02	3.14E-02	6.32E-03	7.42E-03	2.22E-05	1.69E-06	0.00E+00
Alabama	Lamar County	01075	R	1.73E-03	1.73E-03	1.73E-03	2.16E-03	3.38E-03	6.24E-03	6.24E-03	6.24E-03	2.40E-03	9.80E-04	1.40E-06	1.29E-07	0.00E+00
Alabama	Lauderdale County	01077	R	1.66E-03	2.62E-03	6.08E-03	2.23E-02	2.14E-02	3.15E-02	5.00E-02	7.34E-02	1.05E-04	2.13E-02	1.01E-05	2.08E-06	0.00E+00
Alabama	Lawrence County	01079	R	6.10E-04	6.10E-04	9.41E-04	1.12E-03	1.98E-03	2.31E-03	5.77E-03	5.77E-03	9.97E-04	9.79E-04	2.86E-06	8.30E-07	0.00E+00
Alabama	Lee County	01081	U	7.85E-04	7.97E-04	1.17E-03	1.89E-03	2.50E-03	3.28E-03	4.87E-03	7.30E-03	8.69E-04	1.62E-03	9.55E-06	9.87E-07	0.00E+00
Alabama	Limestone County	01083	U	1.57E-04	2.12E-04	2.64E-04	7.11E-04	6.69E-04	9.24E-04	9.88E-04	1.64E-03	5.36E-04	1.23E-04	9.40E-06	1.06E-06	0.00E+00
Alabama	Lowndes County	01085	R	1.92E-04	1.92E-04	2.24E-04	3.00E-04	3.05E-04	3.87E-04	4.29E-04	4.29E-04	2.68E-04	3.53E-05	1.83E-06	1.47E-07	0.00E+00
Alabama	Macon County	01087	U	5.96E-05	1.26E-04	3.64E-04	4.23E-04	4.27E-04	4.93E-04	7.20E-04	9.36E-04	6.55E-06	4.15E-04	4.93E-06	2.49E-07	0.00E+00
Alabama	Madison County	01089	U	7.56E-05	9.85E-05	1.26E-04	1.58E-04	1.74E-04	2.34E-04	2.85E-04	2.96E-04	1.37E-04	2.64E-05	9.26E-06	1.51E-06	0.00E+00
Alabama	Marengo County	01091	R	2.24E-04	2.24E-04	2.65E-04	5.12E-04	4.87E-04	6.89E-04	7.20E-04	7.20E-04	2.45E-04	2.41E-04	1.22E-06	2.09E-07	0.00E+00
Alabama	Marion County	01093	R	6.44E-05	6.44E-05	1.31E-04	4.88E-04	6.65E-04	1.17E-03	1.68E-03	1.68E-03	2.54E-04	4.08E-04	2.16E-06	1.90E-07	0.00E+00
Alabama	Marshall County	01095	R	6.98E-05	8.34E-05	8.79E-05	2.12E-04	2.27E-04	3.18E-04	3.70E-04	5.53E-04	5.26E-05	1.70E-04	2.96E-06	1.78E-06	0.00E+00
Alabama	Mobile County	01097	U	3.43E-04	4.75E-04	6.27E-04	8.96E-04	1.53E-03	1.36E-03	2.33E-03	2.87E-03	7.22E-04	7.80E-04	9.92E-06	2.03E-05	0.00E+00
Alabama	Monroe County	01099	R	5.91E-04	5.91E-04	7.72E-04	1.46E-03	1.60E-03	2.03E-03	3.09E-03	3.09E-03	1.28E-03	3.10E-04	1.01E-06	1.31E-07	0.00E+00
Alabama	Montgomery County	01101	U	7.37E-05	1.50E-04	2.87E-04	4.51E-04	4.20E-04	5.42E-04	6.15E-04	7.60E-04	2.05E-05	3.83E-04	1.56E-05	1.10E-06	0.00E+00
Alabama	Morgan County	01103	U	2.67E-04	3.25E-04	6.16E-04	1.70E-03	2.83E-03	2.96E-03	6.40E-03	7.92E-03	2.78E-03	4.42E-05	8.67E-06	1.78E-06	0.00E+00
Alabama	Perry County	01105	R	1.81E-04	1.81E-04	2.34E-04	3.47E-04	3.54E-04	4.74E-04	5.41E-04	5.41E-04	1.41E-04	2.12E-04	7.31E-07	1.01E-07	0.00E+00
Alabama	Pickens County	01107	R	1.65E-03	1.65E-03	1.76E-03	1.80E-03	2.60E-03	2.19E-03	5.62E-03	5.62E-03	2.13E-03	4.77E-04	1.19E-06	2.06E-07	0.00E+00
Alabama	Pike County	01109	R	2.06E-06	2.06E-06	2.63E-06	8.07E-06	4.49E-05	5.32E-05	2.29E-04	2.29E-04	0.00E+00	4.24E-05	2.34E-06	1.84E-07	0.00E+00
Alabama	Randolph County	01111	R	6.17E-05	6.17E-05	6.56E-05	9.04E-05	1.36E-04	1.21E-04	3.87E-04	3.87E-04	5.08E-05	8.33E-05	1.70E-06	1.64E-07	0.00E+00
Alabama	Russell County	01113	U	1.02E-03	1.32E-03	2.61E-03	5.78E-03	6.76E-03	1.07E-02	1.35E-02	1.36E-02	5.38E-03	1.36E-03	1.24E-05	8.94E-07	0.00E+00
Alabama	St. Clair County	01115	U	2.27E-04	2.27E-04	6.83E-04	8.70E-04	8.61E-04	9.74E-04	1.64E-03	1.64E-03	3.85E-04	4.70E-04	5.53E-06	4.66E-07	0.00E+00
Alabama	Shelby County	01117	U	3.83E-03	3.99E-03	7.60E-03	1.42E-02	1.70E-02	2.33E-02	3.81E-02	4.39E-02	1.04E-03	1.59E-02	1.29E-05	1.09E-06	0.00E+00
Alabama	Sumter County	01119	R	2.69E-04	2.69E-04	2.93E-04	3.05E-04	3.62E-04	3.24E-04	6.17E-04	6.17E-04	1.05E-04	2.55E-04	1.48E-06	2.89E-07	0.00E+00
Alabama	Talladega County	01121	R	4.03E-04	5.46E-04	8.08E-04	9.62E-04	2.26E-03	2.80E-03	6.49E-03	7.58E-03	3.60E-04	1.90E-03	3.48E-06	4.61E-07	0.00E+00
Alabama	Tallapoosa County	01123	R	3.15E-04	3.15E-04	4.61E-04	9.47E-04	2.39E-03	1.02E-03	1.27E-02	1.27E-02	2.34E-05	2.37E-03	2.65E-06	2.64E-07	0.00E+00
Alabama	Tuscaloosa County	01125	U	8.70E-04	1.12E-03	1.46E-03	1.64E-03	2.07E-03	2.27E-03	3.59E-03	4.71E-03	2.23E-04	1.84E-03	1.20E-05	1.06E-06	0.00E+00
Alabama	Walker County	01127	R	4.80E-04	5.43E-04	1.21E-03	2.09E-03	2.15E-03	2.98E-03	3.97E-03	4.53E-03	1.40E-03	7.41E-04	4.67E-06	4.32E-07	0.00E+00
Alabama	Washington County	01129	R	6.04E-05	6.04E-05	1.82E-04	1.92E-04	3.04E-04	3.36E-04	7.51E-04	7.51E-04	2.65E-04	3.87E-05	5.45E-07	7.10E-08	0.00E+00
Alabama	Wilcox County	01131	R	1.18E-04	1.18E-04	1.54E-04	2.48E-04	2.29E-04	2.97E-04	3.31E-04	3.31E-04	1.11E-04	1.18E-04	5.30E-07	9.87E-08	0.00E+00
Alabama	Winston County	01133	R	5.87E-05	5.87E-05	6.01E-05	2.36E-04	2.22E-04	3.67E-04	3.90E-04	3.90E-04	9.12E-05	1.29E-04	1.92E-06	2.32E-07	0.00E+00
Alaska	Statewide	N/A	N/A	6.90E-08	1.45E-07	5.76E-07	1.13E-05	3.84E-05	5.66E-05	9.73E-05	1.33E-04	5.88E-07	3.34E-05	3.28E-06	1.18E-06	0.00E+00
Alaska	All Urban Counties	N/A	U	3.50E-07	2.16E-06	8.03E-06	3.21E-05	5.45E-05	7.43E-05	1.09E-04	1.50E-04	7.44E-07	4.74E-05	4.66E-06	1.68E-06	0.00E+00
Alaska	All Rural Counties	N/A	R	3.27E-08	4.39E-08	1.10E-07	3.14E-07	1.48E-06	7.82E-07	5.24E-06	8.15E-06	2.30E-07	1.08E-06	1.31E-07	4.17E-08	0.00E+00
Alaska	Aleutians East Borough	02013	R	9.85E-08	9.85E-08	9.85E-08	9.85E-08	9.85E-08	9.85E-08	9.85E-08	9.85E-08	0.00E+00	6.40E-08	1.15E-08	2.30E-08	0.00E+00
Alaska	Aleutians West Census Area	02016	R	3.71E-08	3.71E-08	3.71E-08	7.42E-08	7.42E-08	1.11E-07	1.11E-07	1.11E-07	0.00E+00	5.34E-08	1.39E-08	6.86E-09	0.00E+00
Alaska	Anchorage Borough	02020	U	7.71E-06	1.97E-05	3.80E-05	6.59E-05	8.97E-05	1.01E-04	1.50E-04	1.90E-04	0.00E+00	7.96E-05	7.54E-06	2.64E-06	0.00E+00
Alaska	Bethel Census Area	02050	R	6.90E-08	6.90E-08	6.90E-08	2.42E-07	5.19E-07	1.25E-06	1.25E-06	1.25E-06	0.00E+00	4.14E-07	9.30E-08	1.18E-08	0.00E+00
Alaska	Bristol Bay Borough	02060	R	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	0.00E+00	1.43E-07	1.47E-08	2.29E-08	0.00E+00
Alaska	Denali Borough	02068	R	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	0.00E+00	1.16E-07	1.24E-08	1.23E-09	0.00E+00
Alaska	Dillingham Census Area	02070	R	7.87E-08	7.87E-08	7.87E-08	4.32E-07	4.32E-07	7.84E-07	7.84E-07	7.84E-07	0.00E+00	3.40E-07	8.49E-08	6.19E-09	0.00E+00
Alaska	Fairbanks North Star Borough	02090	U	1.57E-06	7.15E-06	1.29E-05	4.32E-05	4.02E-05	6.50E-05	7.71E-05	8.55E-05	3.96E-06	3.24E-05	3.35E-06	5.21E-07	0.00E+00
Alaska	Haines Borough	02100	R	6.28E-08	6.28E-08	6.28E-08	6.28E-08	6.28E-08	6.28E-08	6.28E-08	6.28E-08	0.00E+00	4.83E-08	1.05E-08	4.01E-09	0.00E+00
Alaska	Juneau Borough	02110	U	1.90E-06	1.90E-06	2.82E-06	8.18E-06	1.18E-05	2.02E-05	2.92E-05	2.92E-05	6.52E-07	9.93E-06	8.83E-07	2.90E-07	0.00E+00
Alaska	Kenai Peninsula Borough	02122	R	3.27E-08	2.97E-07	4.68E-07	4.65E-06	4.47E-06	5.36E-06	8.72E-06	1.74E-05	8.50E-07	3.23E-06	3.44E-07	4.16E-08	0.00E+00
Alaska	Ketchikan Gateway Borough	02130	U	1.65E-07	1.65E-07	1.95E-06	1.04E-05	1.14E-05	2.10E-05	2.49E-05	2.49E-05	0.00E+00	5.53E-06	9.96E-07	4.92E-06	0.00E+00
Alaska	Kodiak Island Borough	02150	U	1.69E-07	1.69E-07	2.42E-06	8.86E-06	8.88E-06	1.40E-05	1.89E-05	1.89E-05	0.00E+00	7.08E-06	1.47E-06	3.23E-07	0.00E+00
Alaska	Lake and Peninsula Borough	02164	R	6.80E-08	6.80E-08	6.80E-08	6.80E-08	6.80E-08	6.80E-08	6.80E-08	6.80E-08	0.00E+00	5.28E-08	9.85E-09	5.36E-09	0.00E+00
Alaska	Matanuska-Susitna Borough	02170	U	1.79E-07	3.50E-07	3.32E-06	7.86E-06	9.26E-06	1.65E-05	2.03E-05	2.33E-05	0.00E+00	7.85E-06	1.25E-06	1.63E-07	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Alaska	Nome Census Area	02180	R	1.86E-07	1.86E-07	1.86E-07	2.96E-07	2.96E-07	4.06E-07	4.06E-07	4.06E-07	0.00E+00	2.37E-07	4.13E-08	1.80E-08	0.00E+00
Alaska	North Slope Borough	02185	U	2.36E-07	2.36E-07	2.36E-07	4.50E-07	7.68E-07	1.62E-06	1.62E-06	1.62E-06	5.23E-07	1.93E-07	3.69E-08	1.52E-08	0.00E+00
Alaska	Northwest Arctic Borough	02188	R	4.91E-07	4.91E-07	4.91E-07	5.33E-07	5.33E-07	5.76E-07	5.76E-07	5.76E-07	0.00E+00	3.14E-07	3.75E-08	1.82E-07	0.00E+00
Alaska	Prince of Wales-Outer Ketchikan C.A.	02201	R	8.23E-09	8.23E-09	2.09E-07	5.08E-07	4.07E-07	6.06E-07	6.06E-07	6.06E-07	0.00E+00	3.05E-07	8.59E-08	1.60E-08	0.00E+00
Alaska	Sitka Borough	02220	U	4.16E-06	4.16E-06	4.16E-06	4.16E-06	4.16E-06	4.16E-06	4.16E-06	4.16E-06	0.00E+00	3.70E-06	3.93E-07	6.71E-08	0.00E+00
Alaska	Skagway-Hoonah-Angoon Census Area	02232	R	4.39E-08	4.39E-08	4.39E-08	1.45E-07	3.90E-07	9.83E-07	9.83E-07	9.83E-07	0.00E+00	1.89E-07	1.70E-07	3.09E-08	0.00E+00
Alaska	Southeast Fairbanks Census Area	02240	R	2.37E-07	2.37E-07	2.37E-07	2.67E-07	2.79E-07	3.31E-07	3.31E-07	3.31E-07	0.00E+00	2.47E-07	2.92E-08	2.03E-09	0.00E+00
Alaska	Valdez-Cordova Census Area	02261	U	1.25E-07	1.25E-07	1.25E-07	8.89E-07	2.01E-06	5.03E-06	5.03E-06	5.03E-06	3.51E-07	8.70E-08	1.54E-08	1.56E-06	0.00E+00
Alaska	Wade Hampton Census Area	02270	R	1.98E-07	1.98E-07	1.98E-07	1.98E-07	1.98E-07	1.98E-07	1.98E-07	1.98E-07	0.00E+00	1.52E-07	4.06E-08	6.23E-09	0.00E+00
Alaska	Wrangell-Petersburg Census Area	02280	R	9.60E-08	9.60E-08	9.60E-08	1.09E-07	1.01E-06	2.82E-06	2.82E-06	2.82E-06	0.00E+00	9.72E-07	2.67E-08	9.55E-09	0.00E+00
Alaska	Yakutat Borough	02282	R	1.25E-08	1.25E-08	1.25E-08	1.25E-08	1.25E-08	1.25E-08	1.25E-08	1.25E-08	0.00E+00	1.08E-08	1.35E-09	3.51E-10	0.00E+00
Alaska	Yukon-Koyukuk Census Area	02290	R	1.73E-07	1.73E-07	1.91E-07	2.74E-07	3.13E-07	4.35E-07	5.31E-07	5.31E-07	0.00E+00	1.14E-07	1.27E-08	1.86E-07	0.00E+00
Arizona	Statewide	N/A	N/A	1.07E-06	5.77E-06	3.46E-05	9.50E-05	2.56E-04	1.54E-04	3.00E-04	9.89E-04	2.78E-05	2.08E-04	1.74E-05	2.78E-06	0.00E+00
Arizona	All Urban Counties	N/A	U	3.32E-06	9.91E-06	4.34E-05	1.01E-04	2.60E-04	1.55E-04	2.93E-04	9.69E-04	2.84E-05	2.10E-04	1.85E-05	2.77E-06	0.00E+00
Arizona	All Rural Counties	N/A	R	1.85E-07	3.28E-07	4.98E-07	2.41E-06	2.01E-04	4.38E-05	6.87E-04	1.18E-03	1.87E-05	1.78E-04	8.50E-07	2.89E-06	0.00E+00
Arizona	Apache County	04001	R	1.54E-07	1.79E-07	3.28E-07	6.50E-07	2.38E-05	1.32E-05	9.81E-05	1.73E-04	1.93E-05	4.13E-06	3.30E-07	3.35E-08	0.00E+00
Arizona	Cochise County	04003	U	4.24E-07	4.26E-07	1.19E-06	2.30E-06	1.77E-05	7.48E-06	1.19E-05	2.45E-05	1.49E-05	1.60E-06	1.00E-06	1.84E-07	0.00E+00
Arizona	Coconino County	04005	U	2.50E-07	3.53E-07	9.17E-07	2.05E-05	7.20E-05	1.42E-04	2.01E-04	2.09E-04	3.19E-06	5.77E-05	1.04E-05	7.28E-07	0.00E+00
Arizona	Gila County	04007	R	1.85E-07	4.75E-07	8.57E-07	2.97E-05	5.00E-04	6.66E-04	1.72E-03	2.85E-03	5.52E-05	4.44E-04	9.50E-07	8.32E-08	0.00E+00
Arizona	Graham County	04009	R	1.57E-07	1.57E-07	3.81E-07	7.52E-07	3.63E-06	7.26E-06	1.21E-05	1.21E-05	0.00E+00	2.34E-06	1.21E-06	8.40E-08	0.00E+00
Arizona	Greenlee County	04011	R	2.95E-06	2.95E-06	2.95E-06	3.71E-05	1.80E-04	5.01E-04	5.01E-04	5.01E-04	0.00E+00	1.80E-04	1.02E-07	1.29E-08	0.00E+00
Arizona	La Paz County	04012	R	2.45E-07	2.45E-07	5.92E-05	9.09E-04	8.67E-04	1.15E-03	2.18E-03	2.18E-03	0.00E+00	8.33E-04	1.87E-06	3.25E-05	0.00E+00
Arizona	Maricopa County	04013	U	2.90E-05	4.53E-05	7.87E-05	1.20E-04	1.83E-04	1.62E-04	2.60E-04	3.57E-04	1.45E-05	1.41E-04	2.47E-05	3.06E-06	0.00E+00
Arizona	Mohave County	04015	U	1.88E-07	6.31E-06	1.33E-04	2.93E-04	5.66E-04	1.15E-03	1.16E-03	1.16E-03	8.20E-06	5.36E-04	3.69E-06	1.80E-05	0.00E+00
Arizona	Navajo County	04017	R	3.53E-07	3.58E-07	4.98E-07	1.94E-06	9.95E-06	1.16E-05	3.02E-05	4.77E-05	8.36E-06	6.96E-07	8.08E-07	9.29E-08	0.00E+00
Arizona	Pima County	04019	U	4.07E-06	7.66E-06	1.57E-05	3.62E-05	4.10E-05	5.58E-05	8.69E-05	1.05E-04	1.42E-05	1.57E-05	9.87E-06	1.16E-06	0.00E+00
Arizona	Pinal County	04021	U	2.73E-06	5.70E-06	9.52E-06	4.25E-05	1.10E-03	1.00E-03	1.75E-03	7.93E-03	4.97E-04	5.98E-04	4.58E-06	3.02E-07	0.00E+00
Arizona	Santa Cruz County	04023	U	5.39E-07	5.39E-07	1.93E-06	3.32E-06	8.59E-06	1.57E-05	2.12E-05	2.12E-05	0.00E+00	4.43E-06	3.66E-06	4.98E-07	0.00E+00
Arizona	Yavapai County	04025	U	2.57E-07	6.87E-07	2.40E-06	5.74E-06	8.96E-06	9.91E-06	2.12E-05	2.66E-05	0.00E+00	6.33E-06	2.35E-06	2.78E-07	0.00E+00
Arizona	Yuma County	04027	U	4.26E-07	3.25E-04	8.71E-04	2.82E-03	2.55E-03	3.84E-03	4.88E-03	5.84E-03	0.00E+00	2.54E-03	6.29E-06	1.10E-06	0.00E+00
Arkansas	Statewide	N/A	N/A	8.14E-06	2.55E-05	1.74E-04	8.37E-04	2.09E-03	3.14E-03	5.35E-03	7.55E-03	1.01E-03	1.07E-03	5.39E-06	1.35E-06	0.00E+00
Arkansas	All Urban Counties	N/A	U	1.07E-05	2.60E-05	4.26E-04	1.35E-03	2.41E-03	3.68E-03	5.57E-03	7.24E-03	8.96E-04	1.50E-03	8.00E-06	2.08E-06	0.00E+00
Arkansas	All Rural Counties	N/A	R	4.36E-06	2.09E-05	1.29E-04	4.72E-04	1.67E-03	1.53E-03	4.71E-03	8.26E-03	1.16E-03	5.07E-04	2.02E-06	3.98E-07	0.00E+00
Arkansas	Arkansas County	05001	U	6.14E-05	6.14E-05	1.67E-04	9.31E-04	1.40E-03	2.50E-03	3.93E-03	3.93E-03	2.44E-04	1.15E-03	1.05E-06	8.95E-07	0.00E+00
Arkansas	Ashley County	05003	R	5.21E-04	5.21E-04	7.42E-04	8.26E-03	6.43E-03	1.09E-02	1.43E-02	1.43E-02	5.95E-03	4.76E-04	1.12E-06	3.10E-07	0.00E+00
Arkansas	Baxter County	05005	R	2.27E-06	2.27E-06	4.36E-06	8.85E-06	2.55E-05	1.17E-05	1.68E-04	1.68E-04	0.00E+00	2.34E-05	1.80E-06	2.47E-07	0.00E+00
Arkansas	Benton County	05007	U	6.38E-06	7.59E-06	9.37E-06	2.55E-05	2.83E-05	4.05E-05	5.38E-05	5.56E-05	0.00E+00	1.84E-05	9.12E-06	8.01E-07	0.00E+00
Arkansas	Boone County	05009	R	2.76E-06	2.76E-06	3.33E-05	7.08E-04	9.13E-04	1.44E-03	2.59E-03	2.59E-03	0.00E+00	9.10E-04	3.18E-06	3.71E-07	0.00E+00
Arkansas	Bradley County	05011	U	1.53E-03	1.53E-03	3.33E-03	5.35E-03	4.30E-03	5.35E-03	5.95E-03	5.95E-03	2.03E-03	2.27E-03	6.59E-07	1.12E-07	0.00E+00
Arkansas	Calhoun County	05013	R	3.24E-03	3.24E-03	3.24E-03	3.83E-03	3.83E-03	4.42E-03	4.42E-03	4.42E-03	1.28E-03	2.55E-03	6.56E-07	1.72E-07	0.00E+00
Arkansas	Carroll County	05015	R	7.04E-06	7.04E-06	7.63E-06	8.56E-05	8.78E-05	9.41E-05	2.45E-04	2.45E-04	0.00E+00	8.62E-05	1.44E-06	2.33E-07	0.00E+00
Arkansas	Chicot County	05017	U	2.13E-03	2.13E-03	2.20E-03	3.02E-03	3.07E-03	3.94E-03	4.13E-03	4.13E-03	3.04E-03	2.31E-05	7.77E-07	3.85E-06	0.00E+00
Arkansas	Clark County	05019	R	1.21E-03	1.21E-03	2.73E-03	4.32E-03	3.71E-03	4.70E-03	4.99E-03	4.99E-03	3.39E-03	3.20E-04	2.83E-06	3.01E-07	0.00E+00
Arkansas	Clay County	05021	R	4.07E-05	4.07E-05	5.45E-05	2.71E-04	9.90E-04	1.40E-03	3.91E-03	3.91E-03	9.60E-04	2.83E-05	1.18E-06	6.01E-07	0.00E+00
Arkansas	Cleburne County	05023	R	1.78E-04	1.78E-04	1.89E-04	1.93E-04	2.13E-04	2.21E-04	2.83E-04	2.83E-04	9.25E-06	2.02E-04	1.21E-06	2.96E-07	0.00E+00
Arkansas	Cleveland County	05025	R	4.67E-03	4.67E-03	4.67E-03	4.69E-03	4.69E-03	4.71E-03	4.71E-03	4.71E-03	2.32E-03	2.37E-03	7.36E-07	1.31E-07	0.00E+00
Arkansas	Columbia County	05027	R	7.42E-04	7.42E-04	1.08E-03	1.90E-03	2.15E-03	3.08E-03	3.94E-03	3.94E-03	5.24E-04	1.62E-03	1.95E-06	2.33E-07	0.00E+00
Arkansas	Conway County	05029	R	3.72E-03	3.72E-03	4.98E-03	9.82E-03	1.08E-02	1.24E-02	2.42E-02	2.42E-02	1.08E-02	4.88E-05	2.40E-06	3.21E-07	0.00E+00
Arkansas	Craighead County	05031	U	1.48E-04	1.55E-04	2.25E-04	3.22E-04	1.37E-03	5.02E-04	2.93E-03	1.11E-02	4.10E-07	1.37E-03	3.58E-06	9.67E-07	0.00E+00
Arkansas	Crawford County	05033	R	1.83E-05	1.83E-05	7.51E-05	2.30E-04	1.97E-04	3.11E-04	3.25E-04	3.25E-04	1.42E-04	5.02E-05	4.36E-06	3.85E-07	0.00E+00
Arkansas	Crittenden County	05035	U	1.18E-05	2.60E-05	3.44E-04	4.89E-04	5.88E-04	9.06E-04	1.09E-03	1.42E-03					

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Arkansas	Drew County	05043	R	2.31E-04	2.31E-04	3.04E-04	3.44E-04	7.10E-04	5.07E-04	2.53E-03	2.53E-03	4.21E-04	2.87E-04	1.02E-06	9.18E-07	0.00E+00
Arkansas	Faulkner County	05045	U	2.02E-03	2.15E-03	3.35E-03	4.39E-03	4.94E-03	5.63E-03	8.05E-03	9.05E-03	3.82E-03	1.11E-03	6.78E-06	5.31E-07	0.00E+00
Arkansas	Franklin County	05047	R	2.69E-05	2.69E-05	2.69E-05	1.13E-04	1.94E-04	4.43E-04	4.43E-04	4.43E-04	1.45E-04	4.76E-05	1.78E-06	1.87E-07	0.00E+00
Arkansas	Fulton County	05049	R	6.95E-05	6.95E-05	6.95E-05	1.13E-04	1.13E-04	1.56E-04	1.56E-04	1.56E-04	4.06E-05	7.13E-05	5.87E-07	1.05E-07	0.00E+00
Arkansas	Garland County	05051	R	6.84E-04	6.96E-04	7.23E-04	7.90E-04	9.07E-04	8.39E-04	1.39E-03	2.15E-03	7.81E-04	1.21E-04	4.94E-06	3.88E-07	0.00E+00
Arkansas	Grant County	05053	R	6.75E-03	6.75E-03	6.98E-03	8.21E-03	8.28E-03	9.57E-03	9.94E-03	9.94E-03	5.92E-03	2.36E-03	1.96E-06	2.29E-07	0.00E+00
Arkansas	Greene County	05055	U	2.86E-04	2.86E-04	3.32E-04	3.76E-04	1.02E-03	5.02E-04	5.42E-03	5.42E-03	1.19E-04	8.94E-04	2.48E-06	6.04E-07	0.00E+00
Arkansas	Hempstead County	05057	R	7.20E-04	7.20E-04	7.53E-04	8.10E-04	1.09E-03	1.17E-03	1.97E-03	1.97E-03	4.28E-04	6.57E-04	1.03E-06	4.84E-07	0.00E+00
Arkansas	Hot Spring County	05059	R	1.39E-03	1.39E-03	2.61E-03	5.19E-03	7.59E-03	7.65E-03	2.54E-02	2.54E-02	7.07E-03	5.16E-04	3.41E-06	3.03E-07	0.00E+00
Arkansas	Howard County	05061	R	1.77E-03	1.77E-03	1.77E-03	1.92E-03	2.04E-03	2.41E-03	2.41E-03	2.41E-03	1.95E-03	8.81E-05	7.34E-07	2.24E-07	0.00E+00
Arkansas	Independence County	05063	R	6.78E-05	6.78E-05	1.12E-04	1.29E-04	2.15E-04	1.74E-04	8.21E-04	8.21E-04	1.29E-04	8.35E-05	1.99E-06	2.46E-07	0.00E+00
Arkansas	Izard County	05065	R	1.24E-06	1.24E-06	9.79E-05	2.89E-04	3.41E-04	5.84E-04	7.85E-04	7.85E-04	3.27E-08	3.40E-04	4.54E-07	6.23E-08	0.00E+00
Arkansas	Jackson County	05067	R	8.22E-05	8.22E-05	1.45E-04	1.57E-04	1.85E-04	2.54E-04	2.88E-04	2.88E-04	1.23E-04	6.09E-05	1.29E-06	6.08E-07	0.00E+00
Arkansas	Jefferson County	05069	U	9.49E-04	9.68E-04	1.34E-03	2.77E-03	3.07E-03	3.51E-03	5.33E-03	5.91E-03	1.32E-03	1.75E-03	1.37E-06	7.00E-07	0.00E+00
Arkansas	Johnson County	05071	R	3.89E-05	3.89E-05	7.36E-05	3.98E-04	1.30E-03	1.56E-03	5.31E-03	5.31E-03	1.28E-03	1.02E-05	2.36E-06	2.24E-07	0.00E+00
Arkansas	Lafayette County	05073	R	2.99E-04	2.99E-04	2.99E-04	6.68E-04	6.68E-04	1.04E-03	1.04E-03	1.04E-03	3.17E-04	3.50E-04	5.66E-07	2.46E-07	0.00E+00
Arkansas	Lawrence County	05075	R	2.09E-05	2.09E-05	1.95E-04	9.18E-04	2.10E-03	2.93E-03	6.45E-03	6.45E-03	1.48E-05	2.09E-03	8.15E-07	5.27E-07	0.00E+00
Arkansas	Lee County	05077	R	1.49E-04	1.49E-04	8.94E-04	2.36E-03	4.43E-03	7.97E-03	1.29E-02	1.29E-02	0.00E+00	4.43E-03	1.19E-06	2.90E-06	0.00E+00
Arkansas	Lincoln County	05079	R	2.87E-04	2.87E-04	3.61E-04	3.85E-04	6.56E-04	9.29E-04	1.32E-03	1.32E-03	2.15E-04	4.39E-04	1.03E-06	3.85E-07	0.00E+00
Arkansas	Little River County	05081	R	2.33E-03	2.33E-03	2.74E-03	3.67E-03	5.56E-03	8.38E-03	1.26E-02	1.26E-02	5.44E-03	1.15E-04	1.29E-06	1.32E-06	0.00E+00
Arkansas	Logan County	05083	R	6.90E-05	6.90E-05	1.85E-04	5.53E-04	1.50E-03	1.84E-03	5.80E-03	5.80E-03	4.10E-04	1.09E-03	1.36E-06	1.85E-07	0.00E+00
Arkansas	Lonoke County	05085	U	4.31E-04	4.84E-04	5.84E-04	7.38E-04	8.40E-04	9.37E-04	1.19E-03	1.98E-03	6.01E-05	7.75E-04	4.51E-06	5.77E-07	0.00E+00
Arkansas	Madison County	05087	R	1.46E-06	1.46E-06	1.93E-06	2.87E-06	3.49E-05	6.78E-05	1.32E-04	1.32E-04	0.00E+00	3.41E-05	7.14E-07	7.63E-08	0.00E+00
Arkansas	Marion County	05089	R	3.62E-05	3.62E-05	3.62E-05	4.92E-05	4.76E-05	5.74E-05	5.74E-05	5.74E-05	0.00E+00	4.67E-05	8.29E-07	1.27E-07	0.00E+00
Arkansas	Miller County	05091	U	5.59E-04	5.59E-04	1.04E-03	1.19E-03	1.07E-03	1.24E-03	1.37E-03	1.37E-03	9.45E-04	1.15E-04	7.00E-06	2.87E-06	0.00E+00
Arkansas	Mississippi County	05093	U	8.00E-05	2.81E-04	5.83E-04	6.82E-04	8.58E-04	8.39E-04	1.07E-03	3.49E-03	2.19E-05	8.27E-04	5.41E-06	3.97E-06	0.00E+00
Arkansas	Monroe County	05095	R	5.58E-05	5.58E-05	5.58E-05	5.36E-04	5.35E-04	1.01E-03	1.01E-03	1.01E-03	0.00E+00	5.33E-04	1.10E-06	4.87E-07	0.00E+00
Arkansas	Montgomery County	05097	R	5.46E-05	5.46E-05	5.46E-05	1.96E-04	1.71E-04	2.62E-04	2.62E-04	2.62E-04	8.55E-05	8.52E-05	4.13E-07	8.27E-08	0.00E+00
Arkansas	Nevada County	05099	R	1.17E-03	1.17E-03	1.17E-03	1.37E-03	1.31E-03	1.39E-03	1.39E-03	1.39E-03	8.03E-04	5.03E-04	6.62E-07	9.74E-08	0.00E+00
Arkansas	Newton County	05101	R	1.24E-04	1.24E-04	1.24E-04	1.97E-04	1.97E-04	2.71E-04	2.71E-04	2.71E-04	0.00E+00	1.97E-04	4.56E-07	3.35E-08	0.00E+00
Arkansas	Ouachita County	05103	R	1.65E-03	1.65E-03	2.08E-03	3.18E-03	3.26E-03	3.52E-03	5.97E-03	5.97E-03	9.21E-04	2.34E-03	2.28E-06	2.55E-07	0.00E+00
Arkansas	Perry County	05105	R	2.11E-03	2.11E-03	2.11E-03	7.55E-03	7.73E-03	1.35E-02	1.35E-02	1.35E-02	7.63E-03	1.00E-04	1.09E-06	1.52E-07	0.00E+00
Arkansas	Phillips County	05107	U	1.51E-04	1.51E-04	9.30E-04	1.17E-03	1.08E-03	1.47E-03	1.58E-03	1.58E-03	1.39E-04	9.25E-04	2.86E-06	1.30E-05	0.00E+00
Arkansas	Pike County	05109	R	2.34E-04	2.34E-04	2.34E-04	4.74E-04	5.74E-04	1.01E-03	1.01E-03	1.01E-03	4.15E-04	1.58E-04	5.11E-07	7.62E-08	0.00E+00
Arkansas	Poinsett County	05111	R	6.64E-05	6.64E-05	8.19E-05	1.57E-04	1.58E-04	2.05E-04	2.50E-04	2.50E-04	1.12E-05	1.45E-04	1.97E-06	6.68E-07	0.00E+00
Arkansas	Polk County	05113	R	1.26E-06	1.26E-06	2.58E-06	5.28E-05	1.83E-04	3.75E-04	6.16E-04	6.16E-04	1.78E-04	4.41E-06	8.50E-07	1.37E-07	0.00E+00
Arkansas	Pope County	05115	U	2.07E-05	2.16E-05	7.33E-04	9.17E-04	1.10E-03	1.51E-03	2.01E-03	2.84E-03	1.09E-03	8.14E-06	3.58E-06	3.55E-07	0.00E+00
Arkansas	Prairie County	05117	R	4.10E-05	4.10E-05	4.10E-05	2.11E-04	1.68E-04	2.52E-04	2.52E-04	2.52E-04	4.72E-07	1.65E-04	1.54E-06	4.64E-07	0.00E+00
Arkansas	Pulaski County	05119	U	1.44E-03	1.94E-03	2.74E-03	3.49E-03	3.97E-03	4.39E-03	7.06E-03	8.43E-03	5.55E-04	3.40E-03	1.51E-05	1.68E-06	0.00E+00
Arkansas	Randolph County	05121	R	6.52E-05	6.52E-05	6.52E-05	1.17E-04	1.49E-04	2.65E-04	2.65E-04	2.65E-04	0.00E+00	1.48E-04	1.20E-06	3.44E-07	0.00E+00
Arkansas	St. Francis County	05123	R	1.57E-04	1.57E-04	4.40E-04	9.59E-04	8.36E-04	1.17E-03	1.33E-03	1.33E-03	1.42E-05	8.17E-04	3.87E-06	1.03E-06	0.00E+00
Arkansas	Saline County	05125	U	3.40E-03	3.58E-03	4.05E-03	5.53E-03	6.25E-03	5.97E-03	7.81E-03	9.62E-03	2.66E-03	3.58E-03	5.82E-06	4.78E-07	0.00E+00
Arkansas	Scott County	05127	R	1.17E-04	1.17E-04	1.17E-04	3.18E-04	3.13E-04	5.06E-04	5.06E-04	5.06E-04	1.72E-04	1.41E-04	6.74E-07	7.83E-08	0.00E+00
Arkansas	Searcy County	05129	R	7.01E-07	7.01E-07	7.01E-07	7.86E-05	6.41E-05	1.13E-04	1.13E-04	1.13E-04	0.00E+00	6.37E-05	3.82E-07	3.70E-08	0.00E+00
Arkansas	Sebastian County	05131	U	4.15E-04	4.43E-04	5.04E-04	6.05E-04	1.13E-03	8.31E-04	3.05E-03	4.82E-03	6.07E-04	5.09E-04	9.21E-06	9.69E-07	0.00E+00
Arkansas	Sevier County	05133	R	1.04E-03	1.04E-03	1.12E-03	1.22E-03	1.53E-03	1.94E-03	2.65E-03	2.65E-03	1.52E-03	7.86E-06	1.00E-06	3.32E-07	0.00E+00
Arkansas	Sharp County	05135	R	2.06E-06	2.06E-06	3.72E-06	6.58E-06	1.31E-05	2.25E-05	3.71E-05	3.71E-05	8.79E-06	3.27E-06	8.84E-07	1.45E-07	0.00E+00
Arkansas	Stone County	05137	R	4.46E-04	4.46E-04	4.46E-04	1.01E-03	1.01E-03	1.58E-03	1.58E-03	1.58E-03	9.64E-09	1.01E-03	4.52E-07	6.00E-08	0.00E+00
Arkansas	Union County	05139	R	6.69E-04	7.25E-04	8.82E-04	1.53E-03	1.45E-03	1.82E-03	2.03E-03	2.19E-03	2.65E-04	1.17E-03	5.29E-06	5.90E-07	0.00E+00
Arkansas	Van Buren County	05141	R	1.73E-06	1.73E-06	1.81E-05	1.02E-04	1.42E-04	2.66E-04	3.63E-04	3.63E-04	0.00E+00	1.41E-04	6.99E-07	8.25E-08	0.00E+00
Arkansas	Washington County	05143	U	2.54E-06	5.25E-06	8.53E-06	2.19E-05	2.86E-05	3.87E-05	6.60E-05	7.52E-05	0.00E+00	1.81E-05	9.40E-06	1.05E-06	0.00E+00
Arkansas	White County	05145	R	1.06E-04	1.24E-04	1.43E-04	2.40E-04	3.68E-04	4.35E-04	5.98E-04	1.40E-03	5.43E-05	3.11E-04	2.95E-06	4.19E-07	0.00E+00
Arkansas	Woodruff County	05147	R	2.21E-05	2.21E-05	2.21E-05	7.65E-05	7.65E-05	1.31E-04	1.31E-04	1.31E-04	2.76E-05	4.82E-05	4.19E-07	3.57E-07	0.00E+00
Arkansas	Yell County	05149	R	4.74E-05	4.74E-05	1.08E-04	1.79E-04	3.03E-04	4.98E-04	8.08E-04	8.08E-04	2.81E-04	2.07E-05	1.06E-06	1.83E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
California	Statewide	N/A	N/A	2.89E-03	4.75E-03	7.84E-03	1.18E-02	1.35E-02	1.64E-02	2.27E-02	2.93E-02	4.25E-04	1.28E-02	2.18E-04	7.68E-05	0.00E+00
California	All Urban Counties	N/A	U	3.49E-03	5.20E-03	8.11E-03	1.20E-02	1.38E-02	1.65E-02	2.29E-02	2.96E-02	4.35E-04	1.31E-02	2.24E-04	7.86E-05	0.00E+00
California	All Rural Counties	N/A	R	2.91E-04	4.59E-04	1.21E-03	3.11E-03	4.94E-03	7.90E-03	1.14E-02	1.49E-02	1.24E-04	4.77E-03	2.24E-05	2.11E-05	0.00E+00
California	Alameda County	06001	U	5.70E-03	6.26E-03	7.83E-03	1.03E-02	1.08E-02	1.31E-02	1.58E-02	1.81E-02	1.26E-04	1.04E-02	2.07E-04	1.17E-04	0.00E+00
California	Alpine County	06003	R	1.92E-04	1.92E-04	1.92E-04	1.92E-04	1.92E-04	1.92E-04	1.92E-04	1.92E-04	0.00E+00	1.86E-04	7.50E-07	5.04E-06	0.00E+00
California	Amador County	06005	R	1.04E-03	1.04E-03	1.28E-03	1.52E-03	1.58E-03	1.94E-03	2.00E-03	2.00E-03	9.54E-08	1.54E-03	1.61E-05	2.29E-05	0.00E+00
California	Butte County	06007	R	5.03E-03	5.50E-03	6.91E-03	9.11E-03	9.81E-03	1.22E-02	1.54E-02	1.68E-02	1.70E-04	9.56E-03	5.33E-05	2.79E-05	0.00E+00
California	Calaveras County	06009	R	7.38E-04	7.38E-04	1.21E-03	2.02E-03	1.86E-03	2.35E-03	2.86E-03	2.86E-03	1.82E-04	1.60E-03	1.03E-05	6.77E-05	0.00E+00
California	Colusa County	06011	R	1.22E-02	1.22E-02	1.52E-02	1.80E-02	1.87E-02	2.41E-02	2.42E-02	2.42E-02	7.35E-06	1.87E-02	6.07E-06	1.11E-05	0.00E+00
California	Contra Costa County	06013	U	3.33E-03	3.86E-03	4.60E-03	5.40E-03	5.83E-03	6.52E-03	8.72E-03	9.77E-03	8.81E-05	5.57E-03	9.04E-05	7.92E-05	0.00E+00
California	Del Norte County	06015	R	5.69E-04	5.69E-04	7.54E-04	2.24E-03	2.68E-03	4.87E-03	5.41E-03	5.41E-03	4.47E-05	2.62E-03	5.38E-06	9.83E-06	0.00E+00
California	El Dorado County	06017	U	5.45E-04	1.18E-03	2.39E-03	3.48E-03	4.00E-03	5.37E-03	6.80E-03	8.91E-03	4.60E-08	3.96E-03	2.48E-05	2.20E-05	0.00E+00
California	Fresno County	06019	U	8.01E-03	8.85E-03	1.05E-02	1.26E-02	1.33E-02	1.48E-02	1.77E-02	2.00E-02	5.16E-05	1.31E-02	7.74E-05	2.36E-05	0.00E+00
California	Glenn County	06021	R	5.22E-03	5.22E-03	5.93E-03	8.20E-03	9.07E-03	1.19E-02	1.49E-02	1.99E-02	2.07E-05	9.02E-03	1.15E-05	1.04E-05	0.00E+00
California	Humboldt County	06023	R	3.88E-04	3.88E-04	1.50E-03	2.76E-03	4.86E-03	6.74E-03	1.03E-02	1.62E-02	1.30E-04	4.68E-03	2.72E-05	2.24E-05	0.00E+00
California	Imperial County	06025	U	2.87E-02	4.76E-02	5.71E-02	7.39E-02	7.73E-02	9.18E-02	1.22E-01	1.23E-01	3.96E-06	7.73E-02	2.87E-05	1.17E-05	0.00E+00
California	Inyo County	06027	R	5.31E-04	5.31E-04	9.83E-04	1.15E-03	1.43E-03	1.80E-03	3.11E-03	3.11E-03	0.00E+00	1.42E-03	8.52E-06	2.03E-06	0.00E+00
California	Kern County	06029	U	2.42E-03	3.75E-03	9.03E-03	1.25E-02	1.25E-02	1.55E-02	1.97E-02	2.22E-02	2.22E-05	1.24E-02	5.96E-05	2.07E-05	0.00E+00
California	Kings County	06031	U	1.53E-02	1.59E-02	1.92E-02	2.54E-02	2.61E-02	3.21E-02	3.88E-02	4.23E-02	5.99E-05	2.60E-02	5.86E-05	1.11E-05	0.00E+00
California	Lake County	06033	R	8.55E-04	1.47E-03	1.71E-03	1.86E-03	2.07E-03	2.09E-03	3.63E-03	3.90E-03	1.39E-05	2.01E-03	1.30E-05	3.47E-05	0.00E+00
California	Lassen County	06035	U	2.17E-04	2.17E-04	3.22E-04	5.02E-04	5.49E-04	7.19E-04	1.18E-03	1.18E-03	0.00E+00	5.42E-04	2.23E-06	4.11E-06	0.00E+00
California	Los Angeles County	06037	U	3.22E-03	5.80E-03	8.76E-03	1.22E-02	1.26E-02	1.58E-02	1.91E-02	2.18E-02	4.40E-04	1.17E-02	4.23E-04	1.05E-04	0.00E+00
California	Madera County	06039	U	2.76E-03	4.52E-03	6.92E-03	1.09E-02	1.04E-02	1.35E-02	1.53E-02	2.21E-02	2.49E-05	1.03E-02	4.30E-05	1.68E-05	0.00E+00
California	Marin County	06041	U	1.46E-03	1.95E-03	2.42E-03	2.85E-03	2.87E-03	3.32E-03	3.75E-03	4.22E-03	2.14E-05	2.72E-03	7.20E-05	6.09E-05	0.00E+00
California	Mariposa County	06043	R	1.79E-04	1.79E-04	6.04E-04	1.20E-03	1.07E-03	1.53E-03	1.69E-03	1.69E-03	1.37E-04	9.03E-04	4.69E-06	2.38E-05	0.00E+00
California	Mendocino County	06045	R	1.67E-04	1.77E-04	4.12E-04	1.21E-03	2.56E-03	3.21E-03	1.14E-02	1.18E-02	7.02E-06	2.53E-03	1.10E-05	1.11E-05	0.00E+00
California	Merced County	06047	U	8.55E-03	1.03E-02	1.37E-02	2.06E-02	2.01E-02	2.44E-02	2.82E-02	3.66E-02	1.29E-04	1.99E-02	4.85E-05	1.81E-05	0.00E+00
California	Modoc County	06049	R	8.71E-04	8.71E-04	1.08E-03	1.31E-03	1.30E-03	1.52E-03	1.70E-03	1.70E-03	0.00E+00	1.29E-03	4.32E-06	1.21E-06	0.00E+00
California	Mono County	06051	R	4.40E-04	4.40E-04	4.40E-04	6.47E-04	6.47E-04	8.55E-04	8.55E-04	8.55E-04	0.00E+00	6.44E-04	1.15E-06	1.90E-06	0.00E+00
California	Monterey County	06053	U	3.67E-03	4.84E-03	6.16E-03	1.01E-02	1.23E-02	1.89E-02	2.19E-02	2.37E-02	1.37E-07	1.22E-02	3.23E-05	4.08E-05	0.00E+00
California	Napa County	06055	U	2.38E-03	2.81E-03	4.07E-03	6.81E-03	8.33E-03	1.20E-02	1.75E-02	1.77E-02	1.54E-05	8.21E-03	5.78E-05	4.46E-05	0.00E+00
California	Nevada County	06057	R	5.39E-04	2.05E-03	3.41E-03	5.22E-03	5.68E-03	7.56E-03	1.09E-02	1.09E-02	3.82E-07	5.64E-03	2.17E-05	2.13E-05	0.00E+00
California	Orange County	06059	U	4.44E-03	5.65E-03	7.97E-03	1.20E-02	1.32E-02	1.62E-02	1.95E-02	2.25E-02	1.52E-03	1.13E-02	3.08E-04	1.26E-04	0.00E+00
California	Placer County	06061	U	2.08E-03	2.75E-03	5.60E-03	1.04E-02	9.91E-03	1.46E-02	1.59E-02	1.80E-02	9.19E-07	9.81E-03	4.57E-05	4.60E-05	0.00E+00
California	Plumas County	06063	R	6.23E-04	6.23E-04	8.64E-04	9.97E-04	1.36E-03	1.07E-03	3.58E-03	3.58E-03	0.00E+00	1.34E-03	3.10E-06	1.16E-05	0.00E+00
California	Riverside County	06065	U	4.60E-03	5.52E-03	8.01E-03	1.17E-02	1.24E-02	1.57E-02	2.00E-02	2.34E-02	1.54E-04	1.22E-02	9.02E-05	3.71E-05	0.00E+00
California	Sacramento County	06067	U	7.01E-03	8.38E-03	1.11E-02	1.42E-02	1.52E-02	1.83E-02	2.31E-02	2.75E-02	6.23E-06	1.50E-02	1.14E-04	3.90E-05	0.00E+00
California	San Benito County	06069	U	4.18E-03	4.18E-03	7.32E-03	1.31E-02	1.17E-02	1.53E-02	1.84E-02	1.84E-02	8.17E-08	1.17E-02	2.31E-05	1.27E-05	0.00E+00
California	San Bernardino County	06071	U	2.76E-03	5.73E-03	1.15E-02	1.60E-02	1.66E-02	2.03E-02	2.56E-02	3.15E-02	2.57E-03	1.38E-02	1.15E-04	4.40E-05	0.00E+00
California	San Diego County	06073	U	6.54E-03	9.73E-03	1.39E-02	2.10E-02	2.36E-02	3.07E-02	4.15E-02	4.99E-02	5.95E-04	2.27E-02	2.04E-04	7.62E-05	0.00E+00
California	San Francisco County	06075	U	4.75E-03	5.59E-03	7.00E-03	9.02E-03	9.25E-03	1.09E-02	1.34E-02	1.46E-02	4.53E-05	8.89E-03	1.42E-04	1.69E-04	0.00E+00
California	San Joaquin County	06077	U	8.69E-03	9.38E-03	1.10E-02	1.40E-02	1.53E-02	1.79E-02	2.29E-02	2.58E-02	1.30E-04	1.50E-02	8.83E-05	5.12E-05	0.00E+00
California	San Luis Obispo County	06079	U	3.95E-03	5.05E-03	8.31E-03	1.43E-02	1.55E-02	1.96E-02	2.80E-02	3.38E-02	9.02E-07	1.54E-02	6.24E-05	4.29E-05	0.00E+00
California	San Mateo County	06081	U	2.60E-03	3.62E-03	5.11E-03	7.70E-03	7.75E-03	9.88E-03	1.22E-02	1.31E-02	2.82E-05	7.58E-03	8.44E-05	5.98E-05	0.00E+00
California	Santa Barbara County	06083	U	1.97E-03	2.85E-03	4.67E-03	9.86E-03	1.26E-02	1.61E-02	2.77E-02	3.37E-02	5.01E-05	1.24E-02	5.88E-05	4.32E-05	0.00E+00
California	Santa Clara County	06085	U	5.38E-03	6.37E-03	8.32E-03	1.03E-02	1.09E-02	1.34E-02	1.56E-02	1.75E-02	2.68E-06	1.07E-02	1.21E-04	5.99E-05	0.00E+00
California	Santa Cruz County	06087	U	2.92E-03	3.76E-03	4.97E-03	7.48E-03	8.73E-03	1.24E-02	1.55E-02	1.77E-02	7.10E-08	8.66E-03	4.97E-05	2.51E-05	0.00E+00
California	Shasta County	06089	U	5.89E-04	7.28E-04	2.87E-03	4.59E-03	4.90E-03	7.58E-03	8.95E-03	9.28E-03	4.17E-07	4.81E-03	4.57E-05	4.29E-05	0.00E+00
California	Sierra County	06091	R	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	0.00E+00	9.51E-04	3.72E-06	1.38E-05	0.00E+00
California	Siskiyou County	06093	R	2.13E-04	2.79E-04	3.69E-04	4.42E-04	1.08E-03	1.48E-03	2.17E-03	5.99E-03	1.82E-06	1.07E-03	7.26E-06	2.65E-06	0.00E+00
California	Solano County	06095	U	4.08E-03	4.54E-03	5.91E-03	7.46E-03	7.83E-03	9.84E-03	1.13E-02	1.29E-02	7.81E-05	7.58E-03	9.67E-		

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

State	County	FIPS	Urban or Rural	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
California	Tehama County	06103	R	5.44E-04	1.16E-03	2.42E-03	2.95E-03	2.91E-03	3.99E-03	4.02E-03	4.26E-03	1.01E-06	2.89E-03	1.57E-05	1.03E-05	0.00E+00
California	Trinity County	06105	R	1.26E-04	1.26E-04	1.44E-04	1.89E-04	1.82E-04	2.20E-04	2.26E-04	2.26E-04	0.00E+00	1.77E-04	1.30E-06	4.42E-06	0.00E+00
California	Tulare County	06107	U	9.35E-03	1.07E-02	1.43E-02	2.16E-02	2.20E-02	2.82E-02	3.39E-02	3.71E-02	1.32E-06	2.19E-02	9.56E-05	2.28E-05	0.00E+00
California	Tuolumne County	06109	R	9.95E-04	1.12E-03	1.50E-03	2.29E-03	3.83E-03	6.16E-03	8.51E-03	1.01E-02	1.30E-03	2.47E-03	1.21E-05	4.71E-05	0.00E+00
California	Ventura County	06111	U	4.11E-03	5.44E-03	7.62E-03	1.04E-02	1.18E-02	1.46E-02	2.16E-02	2.51E-02	6.55E-05	1.16E-02	1.30E-04	5.27E-05	0.00E+00
California	Yolo County	06113	U	9.12E-03	1.73E-02	3.32E-02	4.78E-02	4.92E-02	6.59E-02	7.89E-02	8.39E-02	1.00E-06	4.91E-02	6.47E-05	3.81E-05	0.00E+00
California	Yuba County	06115	R	2.75E-03	5.65E-03	6.39E-03	7.64E-03	7.38E-03	8.69E-03	9.54E-03	9.97E-03	4.39E-05	7.27E-03	3.97E-05	2.28E-05	0.00E+00
Colorado	Statewide	N/A	N/A	9.96E-07	3.93E-06	2.22E-05	1.85E-04	5.25E-04	4.59E-04	8.40E-04	1.35E-03	1.50E-04	3.64E-04	9.64E-06	1.31E-06	0.00E+00
Colorado	All Urban Counties	N/A	U	6.07E-06	1.42E-05	5.25E-05	2.64E-04	6.24E-04	5.27E-04	9.27E-04	1.54E-03	1.80E-04	4.32E-04	1.12E-05	1.53E-06	0.00E+00
Colorado	All Rural Counties	N/A	R	2.24E-07	2.95E-07	1.71E-06	8.33E-06	3.07E-05	2.61E-05	8.64E-05	1.22E-04	1.93E-06	2.66E-05	1.92E-06	2.39E-07	0.00E+00
Colorado	Adams County	08001	U	3.81E-04	4.39E-04	5.45E-04	7.46E-04	8.21E-04	9.42E-04	1.19E-03	1.41E-03	5.92E-04	2.11E-04	1.53E-05	1.87E-06	0.00E+00
Colorado	Alamosa County	08003	U	1.48E-06	1.48E-06	2.85E-06	6.69E-06	9.35E-06	1.58E-05	2.25E-05	2.25E-05	0.00E+00	5.79E-06	3.19E-06	3.71E-07	0.00E+00
Colorado	Arapahoe County	08005	U	1.26E-04	1.65E-04	2.22E-04	3.06E-04	4.50E-04	4.98E-04	7.44E-04	1.39E-03	2.24E-04	2.09E-04	1.44E-05	2.03E-06	0.00E+00
Colorado	Archuleta County	08007	R	5.80E-07	5.80E-07	1.26E-06	3.07E-06	3.97E-06	6.69E-06	9.17E-06	1.17E-06	0.00E+00	2.31E-06	1.58E-06	7.86E-08	0.00E+00
Colorado	Baca County	08009	R	2.24E-07	2.24E-07	2.24E-07	2.24E-07	2.24E-07	2.24E-07	2.24E-07	2.24E-07	0.00E+00	8.57E-08	1.24E-07	1.43E-08	0.00E+00
Colorado	Bent County	08011	U	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	0.00E+00	1.44E-07	1.52E-07	5.48E-08	0.00E+00
Colorado	Boulder County	08013	U	8.60E-05	1.12E-04	1.89E-04	2.42E-04	2.46E-04	3.00E-04	3.57E-04	4.45E-04	1.15E-04	1.23E-04	7.38E-06	1.37E-06	0.00E+00
Colorado	Chaffee County	08015	R	9.05E-07	9.05E-07	2.86E-06	7.93E-06	9.89E-06	1.69E-05	2.28E-05	2.28E-05	0.00E+00	8.10E-06	1.68E-06	1.19E-07	0.00E+00
Colorado	Cheyenne County	08017	R	1.93E-07	1.93E-07	1.93E-07	1.93E-07	1.93E-07	1.93E-07	1.93E-07	1.93E-07	0.00E+00	2.73E-08	1.00E-07	6.54E-08	0.00E+00
Colorado	Clear Creek County	08019	R	3.55E-05	3.55E-05	3.55E-05	3.56E-05	1.84E-04	4.81E-04	4.81E-04	4.81E-04	5.13E-06	1.76E-04	2.39E-06	1.97E-07	0.00E+00
Colorado	Conejos County	08021	R	3.50E-07	3.50E-07	3.50E-07	1.71E-06	1.48E-06	2.38E-06	2.38E-06	2.38E-06	0.00E+00	1.13E-06	2.76E-07	7.46E-08	0.00E+00
Colorado	Costilla County	08023	R	7.31E-07	7.31E-07	7.31E-07	2.19E-06	2.19E-06	3.65E-06	3.65E-06	3.65E-06	0.00E+00	1.92E-06	2.32E-07	3.58E-08	0.00E+00
Colorado	Crowley County	08025	R	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	0.00E+00	1.74E-06	7.21E-08	3.58E-08	0.00E+00
Colorado	Custer County	08027	R	8.69E-07	8.69E-07	8.69E-07	8.69E-07	8.69E-07	8.69E-07	8.69E-07	8.69E-07	0.00E+00	5.64E-07	2.71E-07	3.31E-08	0.00E+00
Colorado	Delta County	08029	R	2.67E-06	2.67E-06	2.72E-06	3.06E-06	3.95E-06	4.74E-06	6.86E-06	6.86E-06	1.78E-11	2.97E-06	8.78E-07	1.06E-07	0.00E+00
Colorado	Denver County	08031	U	2.71E-04	3.13E-04	4.11E-04	5.50E-04	5.98E-04	6.80E-04	8.91E-04	1.35E-03	3.46E-04	2.29E-04	2.05E-05	2.73E-06	0.00E+00
Colorado	Dolores County	08033	R	2.95E-07	2.95E-07	2.95E-07	2.95E-07	2.95E-07	2.95E-07	2.95E-07	2.95E-07	0.00E+00	1.80E-07	8.33E-08	3.11E-08	0.00E+00
Colorado	Douglas County	08035	U	6.78E-06	1.21E-05	7.06E-05	9.39E-05	9.20E-05	1.15E-04	1.44E-04	1.62E-04	5.99E-05	2.24E-05	8.55E-06	1.20E-06	0.00E+00
Colorado	Eagle County	08037	R	1.91E-06	1.91E-06	2.19E-06	3.50E-06	1.30E-05	1.32E-05	6.08E-05	6.08E-05	0.00E+00	1.17E-05	1.09E-06	1.79E-07	0.00E+00
Colorado	Elbert County	08039	R	5.53E-07	5.53E-07	5.68E-07	1.31E-06	2.82E-05	5.21E-05	8.64E-05	8.64E-05	2.37E-05	3.82E-06	5.45E-07	1.06E-07	0.00E+00
Colorado	El Paso County	08041	U	7.49E-06	1.19E-05	1.48E-05	2.91E-05	5.12E-05	4.96E-05	8.84E-05	1.86E-04	6.30E-07	4.28E-05	6.64E-06	1.15E-06	0.00E+00
Colorado	Fremont County	08043	R	5.17E-07	4.30E-05	7.14E-05	7.77E-05	9.42E-05	9.68E-05	1.36E-04	2.71E-04	2.61E-07	9.09E-05	2.83E-06	2.02E-07	0.00E+00
Colorado	Garfield County	08045	R	1.35E-06	1.35E-06	1.67E-06	3.69E-06	4.24E-06	5.21E-06	1.14E-05	1.14E-05	8.20E-12	3.31E-06	7.39E-07	1.97E-07	0.00E+00
Colorado	Gilpin County	08047	R	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	9.80E-06	2.41E-05	2.05E-06	2.49E-07	0.00E+00
Colorado	Grand County	08049	R	3.93E-06	3.93E-06	3.93E-06	1.33E-05	1.33E-05	2.27E-05	2.27E-05	2.27E-05	0.00E+00	1.29E-05	4.09E-07	6.35E-08	0.00E+00
Colorado	Gunnison County	08051	R	1.83E-07	1.83E-07	8.95E-07	2.86E-06	5.06E-06	9.23E-06	1.43E-05	1.43E-05	0.00E+00	3.22E-06	1.69E-06	1.52E-07	0.00E+00
Colorado	Hinsdale County	08053	R	1.38E-07	1.38E-07	1.38E-07	1.38E-07	1.38E-07	1.38E-07	1.38E-07	1.38E-07	0.00E+00	8.17E-08	2.93E-08	2.74E-08	0.00E+00
Colorado	Huerfano County	08055	U	6.30E-07	6.30E-07	6.30E-07	9.96E-07	1.30E-06	2.29E-06	2.29E-06	2.29E-06	0.00E+00	4.81E-07	6.96E-07	1.27E-07	0.00E+00
Colorado	Jackson County	08057	R	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	0.00E+00	7.98E-07	9.39E-08	5.23E-08	0.00E+00
Colorado	Jefferson County	08059	U	7.43E-05	8.66E-05	1.47E-04	2.75E-04	2.61E-04	3.63E-04	4.22E-04	4.46E-04	1.40E-04	1.08E-04	1.19E-05	1.23E-06	0.00E+00
Colorado	Kiowa County	08061	R	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	1.80E-07	0.00E+00	2.71E-08	7.62E-08	7.63E-08	0.00E+00
Colorado	Kit Carson County	08063	R	2.12E-07	2.12E-07	2.12E-07	2.83E-07	2.63E-07	2.93E-07	2.93E-07	2.93E-07	0.00E+00	4.27E-08	1.36E-07	8.44E-08	0.00E+00
Colorado	Lake County	08065	R	2.08E-05	2.08E-05	2.08E-05	9.49E-05	1.63E-04	3.73E-04	3.73E-04	3.73E-04	0.00E+00	1.62E-04	1.34E-06	1.01E-07	0.00E+00
Colorado	La Plata County	08067	U	1.71E-06	1.77E-06	2.12E-06	1.02E-05	1.39E-05	2.55E-05	3.27E-05	3.97E-05	1.91E-06	6.10E-06	5.38E-06	5.51E-07	0.00E+00
Colorado	Larimer County	08069	U	5.10E-06	1.09E-05	1.51E-05	1.88E-05	2.02E-05	2.36E-05	2.64E-05	4.94E-05	8.36E-06	6.73E-06	4.26E-06	8.10E-07	0.00E+00
Colorado	Las Animas County	08071	U	5.46E-08	5.46E-08	4.17E-07	4.69E-07	1.47E-06	1.16E-06	6.59E-06	6.59E-06	0.00E+00	8.86E-07	4.60E-07	1.25E-07	0.00E+00
Colorado	Lincoln County	08073	R	2.77E-07	2.77E-07	2.77E-07	5.03E-07	5.03E-07	7.29E-07	7.29E-07	7.29E-07	0.00E+00	9.77E-08	3.04E-07	1.01E-07	0.00E+00
Colorado	Logan County	08075	U	2.11E-07	2.11E-07	2.50E-07	1.36E-06	1.62E-06	2.34E-06	4.20E-06	4.20E-06	0.00E+00	7.87E-07	4.93E-07	3.40E-07	0.00E+00
Colorado	Mesa County	08077	R	1.72E-06	1.86E-06	6.80E-06	1.02E-05	1.28E-05	1.57E-05	2.77E-05	3.34E-05	6.92E-10	8.21E-06	3.96E-06	6.50E-07	0.00E+00
Colorado	Mineral County	08079	R	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	0.00E+00	3.92E-05	1.61E-07	3.30E-08	0.00E+00
Colorado	Moffat County	08081	U	4.93E-08	4.93E-08	6.02E-05	8.42E-05	7.57E-05	1.12E-04	1.22E-04	1.22E-04	2.34E-05	4.82E-05	3.74E-06	3.54E-07	0.00E+00
Colorado	Montezuma County	08083	R	1.20E-06	1.20E-06	1.47E-06	8.08E-06	8.40E-06	1.28E-05	2.13E-05	2.13E-05	2.90E-06	3.28E-06	2.09E-06	1.23E-07	0.00E+00
Colorado	Montrose County	08085	R	3.69E-07	3.69E-07	1.35E-06	3.70E-06	8.39E-06	1.38E-05	2.74E-05	2.74E-05	0.00E+00	5.81E-06	2.40E-06	1.85E-07	0.00E+00
Colorado	Morgan County	08087	U	1.34E-06	1.34E-06	3.31E-06	4.35E-06	6.33E-06	1.06E-05	1.28E-05	1.28E-05	3.33E-06	2.02E-06	6.25E-07	3.48E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Colorado	Otero County	08089	U	2.19E-07	2.19E-07	8.90E-07	3.12E-06	1.19E-05	1.26E-05	6.10E-05	6.10E-05	5.81E-07	9.67E-06	1.39E-06	2.59E-07	0.00E+00
Colorado	Ouray County	08091	R	6.37E-07	6.37E-07	6.37E-07	6.37E-07	6.37E-07	6.37E-07	6.37E-07	6.37E-07	0.00E+00	3.61E-07	2.60E-07	1.65E-08	0.00E+00
Colorado	Park County	08093	R	2.96E-06	2.96E-06	4.25E-06	9.70E-06	8.03E-06	1.00E-05	1.33E-05	1.33E-05	1.25E-07	7.47E-06	3.98E-07	3.60E-08	0.00E+00
Colorado	Phillips County	08095	R	2.62E-07	2.62E-07	2.62E-07	2.73E-07	2.73E-07	2.84E-07	2.84E-07	2.84E-07	0.00E+00	6.27E-08	9.20E-08	1.18E-07	0.00E+00
Colorado	Pitkin County	08097	R	1.08E-06	1.08E-06	5.06E-06	1.68E-05	1.51E-05	2.51E-05	2.56E-05	2.56E-05	0.00E+00	1.38E-05	9.45E-07	2.93E-07	0.00E+00
Colorado	Prowers County	08099	U	2.49E-07	2.49E-07	4.72E-07	9.83E-07	2.63E-06	6.02E-06	7.07E-06	7.07E-06	0.00E+00	8.57E-07	1.57E-06	1.99E-07	0.00E+00
Colorado	Pueblo County	08101	U	2.67E-04	5.64E-04	1.09E-03	2.25E-03	5.45E-03	5.39E-03	9.63E-03	1.49E-02	2.31E-06	5.44E-03	9.26E-06	8.38E-07	0.00E+00
Colorado	Rio Blanco County	08103	R	1.79E-07	1.79E-07	1.79E-07	9.83E-06	9.83E-06	1.95E-05	1.95E-05	1.95E-05	9.65E-06	9.70E-08	5.91E-08	1.57E-08	0.00E+00
Colorado	Rio Grande County	08105	R	2.85E-05	2.85E-05	3.00E-05	6.01E-05	6.21E-05	9.43E-05	9.98E-05	9.98E-05	0.00E+00	5.97E-05	2.18E-06	2.39E-07	0.00E+00
Colorado	Routt County	08107	R	1.16E-05	1.16E-05	1.78E-05	2.68E-05	3.45E-05	3.09E-05	1.13E-04	1.13E-04	1.62E-05	1.70E-05	1.10E-06	1.78E-07	0.00E+00
Colorado	Saguache County	08109	R	3.86E-07	3.86E-07	3.86E-07	1.72E-05	1.72E-05	3.40E-05	3.40E-05	3.40E-05	0.00E+00	1.68E-05	3.08E-07	8.96E-08	0.00E+00
Colorado	San Juan County	08111	R	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	0.00E+00	1.37E-07	2.19E-07	4.54E-08	0.00E+00
Colorado	San Miguel County	08113	R	2.74E-07	2.74E-07	2.74E-07	5.93E-07	5.93E-07	9.12E-07	9.12E-07	9.12E-07	0.00E+00	4.23E-07	1.53E-07	1.65E-08	0.00E+00
Colorado	Sedgwick County	08115	R	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	0.00E+00	4.87E-08	1.46E-07	9.51E-08	0.00E+00
Colorado	Summit County	08117	R	6.75E-05	6.75E-05	9.50E-05	1.29E-04	1.21E-04	1.48E-04	1.61E-04	1.61E-04	0.00E+00	1.18E-04	2.93E-06	2.08E-07	0.00E+00
Colorado	Teller County	08119	R	1.58E-05	1.58E-05	2.61E-05	2.93E-05	1.54E-04	1.13E-04	7.09E-04	7.09E-04	3.14E-07	1.51E-04	2.12E-06	1.39E-07	0.00E+00
Colorado	Washington County	08121	R	3.04E-07	3.04E-07	3.04E-07	1.41E-06	1.41E-06	2.51E-06	2.51E-06	2.51E-06	1.07E-06	4.35E-08	1.74E-07	1.19E-07	0.00E+00
Colorado	Weld County	08123	U	1.03E-05	1.70E-05	2.29E-05	3.05E-05	1.68E-04	5.89E-05	7.07E-04	1.13E-03	1.41E-04	2.28E-05	3.71E-06	8.18E-07	0.00E+00
Colorado	Yuma County	08125	R	1.92E-07	1.92E-07	1.92E-07	2.39E-07	2.39E-07	2.86E-07	2.86E-07	2.86E-07	0.00E+00	4.48E-08	8.62E-08	1.08E-07	0.00E+00
Connecticut	Statewide	N/A	N/A	7.60E-05	1.11E-04	1.60E-04	2.04E-04	2.20E-04	2.74E-04	3.45E-04	3.99E-04	1.56E-05	1.84E-04	1.82E-05	2.77E-06	0.00E+00
Connecticut	All Urban Counties	N/A	U	7.60E-05	1.11E-04	1.60E-04	2.04E-04	2.20E-04	2.74E-04	3.45E-04	3.99E-04	1.56E-05	1.84E-04	1.82E-05	2.77E-06	0.00E+00
Connecticut	Fairfield County	09001	U	1.36E-04	1.44E-04	1.67E-04	1.99E-04	2.03E-04	2.29E-04	2.65E-04	3.02E-04	1.55E-05	1.64E-04	1.86E-05	4.15E-06	0.00E+00
Connecticut	Hartford County	09003	U	1.58E-04	1.67E-04	2.15E-04	2.97E-04	2.97E-04	3.55E-04	4.22E-04	4.52E-04	3.11E-05	2.38E-04	2.55E-05	2.15E-06	0.00E+00
Connecticut	Litchfield County	09005	U	6.64E-05	8.42E-05	1.62E-04	2.11E-04	2.12E-04	2.57E-04	2.99E-04	3.22E-04	4.26E-06	2.00E-04	6.51E-06	8.13E-07	0.00E+00
Connecticut	Middlesex County	09007	U	1.17E-04	1.35E-04	1.50E-04	1.97E-04	2.16E-04	2.50E-04	3.26E-04	4.43E-04	1.26E-05	1.87E-04	1.45E-05	1.63E-06	0.00E+00
Connecticut	New Haven County	09009	U	1.34E-04	1.46E-04	1.66E-04	1.98E-04	2.16E-04	2.56E-04	3.11E-04	3.37E-04	8.30E-06	1.86E-04	1.79E-05	3.84E-06	0.00E+00
Connecticut	New London County	09011	U	4.94E-05	6.14E-05	7.60E-05	9.57E-05	1.04E-04	1.19E-04	1.51E-04	1.84E-04	2.99E-06	8.88E-05	1.12E-05	1.13E-06	0.00E+00
Connecticut	Tolland County	09013	U	9.55E-05	1.01E-04	1.13E-04	1.57E-04	1.85E-04	2.70E-04	2.97E-04	3.11E-04	6.50E-06	1.66E-04	1.13E-05	7.84E-07	0.00E+00
Connecticut	Windham County	09015	U	3.57E-05	3.69E-05	4.59E-05	5.43E-05	7.02E-05	6.99E-05	1.45E-04	1.69E-04	1.32E-06	6.14E-05	6.99E-06	5.23E-07	0.00E+00
Delaware	Statewide	N/A	N/A	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	All Urban Counties	N/A	U	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 Rural Counties	N/A	R	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	Kent County	10001	R	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	New Castle County	10003	U	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	Sussex County	10005	R	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
Washington DC	Statewide	N/A	N/A	3.15E-04	3.52E-04	3.89E-04	4.97E-04	5.61E-04	7.67E-04	8.09E-04	8.18E-04	2.06E-04	3.21E-04	3.14E-05	3.15E-06	0.00E+00
Washington DC	All Urban Counties	N/A	U	3.15E-04	3.52E-04	3.89E-04	4.97E-04	5.61E-04	7.67E-04	8.09E-04	8.18E-04	2.06E-04	3.21E-04	3.14E-05	3.15E-06	0.00E+00
Washington DC	District of Columbia	11001	U	3.15E-04	3.52E-04	3.89E-04	4.97E-04	5.61E-04	7.67E-04	8.09E-04	8.18E-04	2.06E-04	3.21E-04	3.14E-05	3.15E-06	0.00E+00
Florida	Statewide	N/A	N/A	1.69E-05	3.05E-05	6.04E-05	1.36E-04	3.18E-04	3.69E-04	7.83E-04	1.16E-03	1.59E-04	1.41E-04	1.39E-05	4.36E-06	0.00E+00
Florida	All Urban Counties	N/A	U	3.00E-05	4.27E-05	7.08E-05	1.51E-04	3.35E-04	3.97E-04	8.21E-04	1.16E-03	1.66E-04	1.49E-04	1.52E-05	4.85E-06	0.00E+00
Florida	All Rural Counties	N/A	R	2.99E-06	5.82E-06	1.46E-05	3.52E-05	1.94E-04	1.79E-04	4.95E-04	9.90E-04	1.09E-04	7.97E-05	4.44E-06	7.58E-07	0.00E+00
Florida	Alachua County	12001	U	1.24E-05	8.96E-05	1.29E-04	1.56E-04	1.69E-04	2.00E-04	2.29E-04	2.43E-04	1.42E-04	1.89E-05	7.64E-06	8.65E-07	0.00E+00
Florida	Baker County	12003	R	2.18E-05	2.18E-05	2.76E-05	3.90E-05	5.25E-05	7.75E-05	1.10E-04	1.10E-04	1.42E-05	3.54E-05	2.71E-06	1.76E-07	0.00E+00
Florida	Bay County	12005	U	1.48E-04	1.85E-04	3.75E-04	8.82E-04	1.32E-03	1.55E-03	3.66E-03	5.17E-03	1.24E-03	6.90E-05	5.17E-06	6.22E-06	0.00E+00
Florida	Bradford County	12007	R	2.62E-05	2.62E-05	7.98E-05	1.72E-04	1.60E-04	2.40E-04	2.71E-04	2.71E-04	1.41E-04	1.66E-05	2.55E-06	1.94E-07	0.00E+00
Florida	Brevard County	12009	U	1.20E-05	1.78E-05	5.38E-05	7.57E-05	7.65E-05	1.01E-04	1.24E-04	1.48E-04	4.46E-05	1.98E-05	1.04E-05	1.61E-06	0.00E+00
Florida	Broward County	12011	U	4.71E-05	5.04E-05	6.12E-05	8.17E-05	1.34E-04	1.13E-04	4.17E-04	4.46E-04	3.07E-05	7.65E-05	1.88E-05	7.68E-06	0.00E+00
Florida	Calhoun County	12013	R	2.50E-04	2.50E-04	2.50E-04	4.15E-04	3.61E-04	4.17E-04	4.17E-04	4.17E-04	2.55E-05	3.34E-04	1.32E-06	1.73E-07	0.00E+00
Florida	Charlotte County	12015	R	1.31E-05	1.35E-05	1.45E-05	2.55E-05	2.76E-05	3.40E-05	4.39E-05	4.17E-05	5.18E-06	1.44E-05	6.35E-06	1.72E-06	0.00E+00
Florida	Citrus County	12017	R	6.92E-05	1.31E-04	1.51E-04	1.83E-04	2.37E-04	3.17E-04	4.12E-04	5.63E-04	2.23E-04	8.85E-06	5.37E-06	3.58E-07	0.00E+00
Florida	Clay County	12019	U	1.75E-04	2.06E-04	2.57E-04	3.31E-04	3.11E-04	3.65E-04	4.00E-04	4.08E-04	2.51E-04	5.15E-05	7.51E-06	1.24E-06	0.00E+00
Florida	Collier County	12021	R	6.26E-06	9.02E-06	1.52E-05	2.67E-05	3.33E-05	4.20E-05	6.56E-05	9.66E-05	5.51E-07	2.23E-05	8.69E-06	1.73E-06	0.00E+00
Florida	Columbia County	12023	R	3.19E-06	3.19E-06	8.19E-06	1.69E-05	1.68E-05	2.55E-05	3.02E-05	3.02E-05	2.25E-06	9.03E-06	5.12E-06	4.18E-07	0.00E+00
Florida	DeSoto County	12027	R	3.88E-06	3.88E-06	7.80E-06	1.06E-05	1.09E-05	1.22E-05	2.03E-05	2.03E-05	7.21E-07	7.54E-06	2.45E-06	2.37E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
Florida	Dixie County	12029	R	8.97E-07	8.97E-07	8.97E-07	1.41E-06	1.41E-06	1.92E-06	1.92E-06	1.92E-06	0.00E+00	6.01E-07	5.60E-07	2.48E-07	0.00E+00
Florida	Duval County	12031	U	3.51E-04	4.10E-04	5.71E-04	9.30E-04	9.97E-04	1.32E-03	1.67E-03	2.06E-03	8.25E-04	1.46E-04	1.53E-05	1.09E-05	0.00E+00
Florida	Escambia County	12033	U	3.27E-04	3.90E-04	6.53E-04	8.41E-04	9.60E-04	1.08E-03	1.45E-03	2.29E-03	9.08E-04	3.55E-05	1.47E-05	1.70E-06	0.00E+00
Florida	Flagler County	12035	U	3.96E-05	3.96E-05	1.48E-04	1.88E-04	1.79E-04	2.44E-04	2.65E-04	2.65E-04	1.10E-04	6.41E-05	3.93E-06	4.49E-07	0.00E+00
Florida	Franklin County	12037	R	8.99E-07	8.99E-07	8.99E-07	3.31E-04	2.43E-04	3.99E-04	3.99E-04	3.99E-04	8.44E-06	2.34E-04	2.19E-07	5.24E-07	0.00E+00
Florida	Gadsden County	12039	U	2.08E-04	2.08E-04	4.52E-04	4.87E-04	6.26E-04	6.27E-04	1.45E-03	1.45E-03	9.80E-05	5.22E-04	5.00E-06	4.36E-07	0.00E+00
Florida	Gilchrist County	12041	R	4.41E-06	4.41E-06	4.41E-06	5.61E-06	5.61E-06	6.81E-06	6.81E-06	6.81E-06	2.90E-06	1.21E-06	1.36E-06	1.39E-07	0.00E+00
Florida	Glades County	12043	R	9.84E-07	9.84E-07	9.84E-07	1.18E-06	1.64E-05	4.71E-05	4.71E-05	4.71E-05	1.54E-05	4.14E-07	2.54E-07	3.21E-07	0.00E+00
Florida	Gulf County	12045	R	4.54E-04	4.54E-04	4.54E-04	1.68E-03	1.32E-03	1.83E-03	1.83E-03	1.83E-03	7.85E-05	1.24E-03	4.21E-07	3.29E-07	0.00E+00
Florida	Hamilton County	12047	R	1.72E-05	1.72E-05	1.72E-05	3.41E-04	3.24E-04	6.14E-04	6.14E-04	6.14E-04	3.17E-04	4.13E-06	2.28E-06	2.46E-07	0.00E+00
Florida	Hardee County	12049	R	1.39E-05	1.39E-05	1.80E-05	2.57E-05	2.81E-05	3.81E-05	4.68E-05	4.68E-05	1.27E-09	2.65E-05	1.36E-06	2.34E-07	0.00E+00
Florida	Hendry County	12051	R	3.79E-06	3.79E-06	9.03E-06	4.50E-04	5.15E-04	1.00E-03	1.18E-03	1.18E-03	2.52E-05	4.88E-04	1.14E-06	3.81E-07	0.00E+00
Florida	Hernando County	12053	U	2.69E-04	4.81E-04	1.08E-03	1.35E-03	1.41E-03	1.61E-03	2.23E-03	2.65E-03	1.38E-03	1.65E-05	5.32E-06	7.21E-07	0.00E+00
Florida	Highlands County	12055	R	3.20E-05	4.40E-05	9.14E-05	1.84E-04	4.66E-04	2.80E-04	1.86E-03	3.08E-03	0.00E+00	4.62E-04	3.04E-06	4.07E-07	0.00E+00
Florida	Hillsborough County	12057	U	1.42E-04	1.61E-04	1.93E-04	2.92E-04	4.21E-04	4.59E-04	8.42E-04	9.91E-04	1.22E-04	2.63E-04	1.86E-05	1.69E-05	0.00E+00
Florida	Holmes County	12059	R	3.29E-06	3.29E-06	3.69E-06	2.46E-05	3.60E-05	6.82E-05	9.13E-05	9.13E-05	0.00E+00	3.36E-05	2.17E-06	2.09E-07	0.00E+00
Florida	Indian River County	12061	R	6.87E-06	7.96E-06	9.90E-06	1.57E-05	1.61E-05	2.10E-05	2.53E-05	2.70E-05	0.00E+00	1.15E-05	3.45E-06	1.10E-06	0.00E+00
Florida	Jackson County	12063	R	1.67E-04	3.91E-04	4.10E-04	5.56E-04	8.82E-04	7.80E-04	1.43E-03	3.67E-03	3.18E-04	5.60E-04	2.97E-06	3.14E-07	0.00E+00
Florida	Jefferson County	12065	R	1.07E-05	1.07E-05	1.07E-05	1.29E-05	1.29E-05	1.52E-05	1.52E-05	1.52E-05	0.00E+00	1.06E-05	2.11E-06	2.33E-07	0.00E+00
Florida	Lafayette County	12067	R	1.28E-04	1.28E-04	1.28E-04	1.50E-04	1.50E-04	1.72E-04	1.72E-04	1.72E-04	1.46E-04	2.57E-06	9.41E-07	9.90E-08	0.00E+00
Florida	Lake County	12069	U	1.80E-05	1.89E-05	2.23E-05	3.12E-05	4.28E-05	5.23E-05	8.46E-05	8.66E-05	9.13E-07	3.42E-05	6.81E-06	8.72E-07	0.00E+00
Florida	Lee County	12071	U	1.13E-05	1.67E-05	2.62E-05	3.54E-05	4.02E-05	5.21E-05	6.76E-05	8.11E-05	1.46E-05	1.33E-05	1.12E-05	9.84E-07	0.00E+00
Florida	Leon County	12073	U	1.44E-04	1.46E-04	1.83E-04	2.22E-04	2.29E-04	2.71E-04	3.08E-04	3.23E-04	6.10E-05	1.58E-04	8.03E-06	1.57E-06	0.00E+00
Florida	Levy County	12075	R	2.77E-06	2.77E-06	2.99E-06	2.41E-05	4.43E-05	5.36E-05	1.92E-04	1.92E-04	4.02E-05	2.11E-06	1.67E-06	2.83E-07	0.00E+00
Florida	Liberty County	12077	R	1.66E-04	1.66E-04	1.66E-04	3.01E-04	3.01E-04	4.36E-04	4.36E-04	4.36E-04	0.00E+00	3.00E-04	1.12E-06	1.24E-07	0.00E+00
Florida	Madison County	12079	R	8.45E-04	8.45E-04	9.90E-04	1.16E-03	1.35E-03	1.40E-03	2.35E-03	2.35E-03	1.31E-03	3.80E-05	2.57E-06	3.39E-07	0.00E+00
Florida	Manatee County	12081	U	3.07E-05	3.95E-05	5.07E-05	6.49E-05	7.72E-05	1.15E-04	1.29E-04	1.41E-04	4.52E-05	2.14E-05	7.60E-06	3.02E-06	0.00E+00
Florida	Marion County	12083	R	1.09E-05	1.26E-05	2.39E-05	1.64E-04	1.56E-04	2.48E-04	2.89E-04	3.51E-04	1.28E-04	2.02E-05	6.54E-06	6.31E-07	0.00E+00
Florida	Martin County	12085	U	4.70E-05	4.97E-05	6.42E-05	8.86E-05	1.09E-04	1.08E-04	1.17E-04	1.94E-04	8.36E-05	1.94E-05	4.67E-06	1.30E-06	0.00E+00
Florida	Miami-Dade County	12086	U	2.85E-05	3.91E-05	5.80E-05	1.02E-04	1.19E-04	1.52E-04	2.19E-04	2.50E-04	3.68E-06	8.63E-05	2.49E-05	3.95E-06	0.00E+00
Florida	Monroe County	12087	R	8.61E-07	1.16E-06	2.30E-06	3.74E-06	5.21E-06	6.66E-06	1.01E-05	1.95E-05	3.19E-07	1.89E-06	2.20E-06	8.09E-07	0.00E+00
Florida	Nassau County	12089	U	4.53E-04	4.53E-04	6.31E-04	1.40E-03	1.42E-03	1.89E-03	3.03E-03	3.03E-03	1.34E-03	6.79E-05	4.90E-06	1.52E-06	0.00E+00
Florida	Okaloosa County	12091	R	1.51E-05	2.32E-05	2.66E-05	4.34E-05	4.45E-05	5.94E-05	6.92E-05	8.28E-05	3.25E-07	3.83E-05	5.13E-06	6.93E-07	0.00E+00
Florida	Okeechobee County	12093	R	4.07E-06	4.07E-06	3.47E-05	4.43E-05	4.10E-05	5.54E-05	6.35E-05	6.35E-05	3.59E-05	3.79E-06	7.88E-07	6.04E-07	0.00E+00
Florida	Orange County	12095	U	6.98E-05	7.88E-05	8.96E-05	1.06E-04	1.32E-04	1.41E-04	2.22E-04	3.05E-04	1.07E-05	9.53E-05	2.29E-05	2.70E-06	0.00E+00
Florida	Osceola County	12097	U	3.74E-05	3.76E-05	5.16E-05	6.68E-05	6.91E-05	9.12E-05	1.05E-04	1.07E-04	5.63E-06	5.71E-05	5.22E-06	1.19E-06	0.00E+00
Florida	Palm Beach County	12099	U	2.51E-04	3.48E-04	4.47E-04	5.54E-04	6.55E-04	7.79E-04	9.68E-04	1.29E-03	2.52E-04	3.88E-04	1.22E-05	2.61E-06	0.00E+00
Florida	Pasco County	12101	U	9.87E-05	1.06E-04	2.17E-04	3.67E-04	3.56E-04	4.76E-04	5.71E-04	6.12E-04	3.08E-04	3.84E-05	7.81E-06	1.52E-06	0.00E+00
Florida	Pinellas County	12103	U	1.48E-04	1.67E-04	2.30E-04	2.83E-04	2.81E-04	3.33E-04	3.77E-04	4.14E-04	1.59E-04	9.95E-05	1.67E-05	6.25E-06	0.00E+00
Florida	Polk County	12105	U	3.07E-05	3.44E-05	5.37E-05	8.33E-05	9.90E-05	1.13E-04	1.67E-04	1.95E-04	3.07E-05	5.84E-05	8.77E-06	1.03E-06	0.00E+00
Florida	Putnam County	12107	R	1.63E-04	4.95E-04	6.15E-04	1.09E-03	1.16E-03	1.64E-03	1.87E-03	2.76E-03	1.05E-03	1.11E-04	2.75E-06	4.38E-07	0.00E+00
Florida	St. Johns County	12109	U	1.24E-04	1.38E-04	1.43E-04	1.59E-04	2.03E-04	2.14E-04	4.46E-04	5.18E-04	1.62E-04	3.40E-05	5.83E-06	1.31E-06	0.00E+00
Florida	St. Lucie County	12111	U	7.91E-06	1.28E-05	3.48E-05	4.44E-05	4.31E-05	5.35E-05	6.58E-05	7.24E-05	2.43E-05	1.22E-05	5.72E-06	8.86E-07	0.00E+00
Florida	Santa Rosa County	12113	U	2.23E-05	1.50E-04	2.43E-04	3.18E-04	3.33E-04	4.59E-04	5.33E-04	6.43E-04	2.84E-04	4.37E-05	4.56E-06	6.58E-07	0.00E+00
Florida	Sarasota County	12115	U	1.23E-05	1.41E-05	2.38E-05	3.55E-05	3.69E-05	4.51E-05	6.11E-05	6.38E-05	1.43E-06	2.56E-05	8.45E-06	1.40E-06	0.00E+00
Florida	Seminole County	12117	U	4.73E-05	5.06E-05	5.74E-05	6.85E-05	7.70E-05	9.48E-05	1.08E-04	1.24E-04	7.45E-06	4.79E-05	1.99E-05	1.83E-06	0.00E+00
Florida	Sumter County	12119	R	1.31E-05	1.34E-05	1.03E-04	1.10E-04	1.16E-04	1.53E-04	2.14E-04	2.24E-04	9.71E-05	1.39E-05	4.51E-06	4.64E-07	0.00E+00
Florida	Suwannee County	12121	R	3.50E-06	3.50E-06	1.91E-05	3.08E-05	7.14E-05	8.67E-05	2.57E-04	2.57E-04	6.49E-05	3.61E-06	2.68E-06	1.57E-07	0.00E+00
Florida	Taylor County	12123	R	1.38E-04	1.38E-04	2.72E-04	3.26E-04	4.27E-04	4.62E-04	9.39E-04	9.39E-04	4.17E-04	8.62E-06	1.35E-06	3.00E-07	0.00E+00
Florida	Union County	12125	R	8.19E-06	8.19E-06	8.19E-06	2.13E-05	2.03E-05	3.15E-05	3.15E-05	3.15E-05	3.39E-06	1.51E-05	1.68E-06	1.64E-07	0.00E+00
Florida	Volusia County	12127	U	3.92E-05	4.67E-05	7.51E-05	3.83E-04	1.16E-03	1.06E-03	1.96E-03	4.19E-03	1.17E-06	1.14E-03	1.23E-05	8.85E-07	0.00E+00
Florida	Wakulla County	12129	R	2.23E-06	2.23E-06	3.23E-06	5.26E-06	4.52E-05	8.72E-05	1.68E-04	1.68E-04	1.06E-05	3.27E-05	1.67E-06	2.95E-07	0.00E+00
Florida	Walton County	12131	R	9.19E-06	9.19E-06	1.26E-05	1.46E-05	2.52E-05	4.12E-05	5.89E-05	5.89E-05	3.32E-06	1.87E-05	2.75E-06	3.89E-07	0.00E+00
Florida	Washington County	12133	R	1.66E-05	1.66E-05	1.66E-05	6.47E-05	6.08E-05	1.01E-04	1.01E-04	1.01E-04	1.78E-05	4.05E-05	2.27E-06	2.34E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Georgia	Statewide	N/A	N/A	3.47E-05	9.02E-05	2.31E-04	4.36E-04	2.04E-03	9.74E-04	3.43E-03	7.13E-03	1.38E-03	6.37E-04	1.57E-05	2.59E-06	0.00E+00
Georgia	All Urban Counties	N/A	U	1.29E-04	1.80E-04	3.06E-04	4.73E-04	2.45E-03	1.06E-03	4.64E-03	8.11E-03	1.76E-03	6.62E-04	2.20E-05	3.66E-06	0.00E+00
Georgia	All Rural Counties	N/A	R	1.09E-05	1.91E-05	9.85E-05	3.23E-04	1.24E-03	8.71E-04	1.97E-03	3.26E-03	6.48E-04	5.89E-04	3.68E-06	5.37E-07	0.00E+00
Georgia	Appling County	13001	R	4.50E-05	4.50E-05	5.00E-05	6.86E-05	2.13E-04	3.82E-04	5.22E-04	5.22E-04	2.00E-04	1.25E-05	1.09E-06	2.19E-07	0.00E+00
Georgia	Atkinson County	13003	R	1.04E-05	1.04E-05	1.04E-05	2.29E-04	2.01E-04	3.65E-04	3.65E-04	3.65E-04	1.96E-04	4.21E-06	8.21E-07	1.42E-07	0.00E+00
Georgia	Bacon County	13005	R	2.69E-04	2.69E-04	2.69E-04	3.06E-04	3.06E-04	3.43E-04	3.43E-04	3.43E-04	2.99E-04	5.68E-06	8.25E-07	1.76E-07	0.00E+00
Georgia	Baker County	13007	R	3.43E-04	3.43E-04	3.43E-04	4.07E-04	4.07E-04	4.70E-04	4.70E-04	4.70E-04	1.93E-06	4.04E-04	6.16E-07	1.75E-07	0.00E+00
Georgia	Baldwin County	13009	R	3.10E-03	3.10E-03	7.29E-03	1.03E-02	2.68E-02	2.43E-02	1.15E-01	1.15E-01	1.38E-04	2.67E-02	6.92E-06	3.34E-07	0.00E+00
Georgia	Banks County	13011	R	1.99E-05	1.99E-05	7.53E-05	1.40E-04	1.16E-04	1.57E-04	1.64E-04	1.64E-04	7.94E-07	1.11E-04	3.73E-06	2.15E-07	0.00E+00
Georgia	Barrow County	13013	U	5.24E-04	5.24E-04	9.33E-04	1.30E-03	2.08E-03	3.86E-03	5.26E-03	5.26E-03	6.23E-05	2.01E-03	1.17E-05	7.69E-07	0.00E+00
Georgia	Bartow County	13015	U	5.82E-04	7.24E-04	9.59E-04	2.19E-03	4.94E-03	4.86E-03	5.90E-03	3.20E-02	2.25E-04	4.70E-03	1.10E-05	8.97E-07	0.00E+00
Georgia	Ben Hill County	13017	U	1.46E-05	1.46E-05	2.56E-05	3.93E-05	3.69E-05	4.79E-05	5.70E-05	5.70E-05	0.00E+00	3.33E-05	3.08E-06	5.35E-07	0.00E+00
Georgia	Berrien County	13019	R	1.64E-05	1.64E-05	3.53E-05	1.09E-04	2.19E-04	1.18E-04	9.27E-04	9.27E-04	1.99E-04	1.83E-05	1.70E-06	2.27E-07	0.00E+00
Georgia	Bibb County	13021	U	5.03E-04	5.19E-04	5.69E-04	6.44E-04	6.83E-04	7.18E-04	9.45E-04	1.02E-03	5.20E-04	1.50E-04	1.24E-05	1.36E-06	0.00E+00
Georgia	Bleckley County	13023	R	7.46E-05	7.46E-05	7.46E-05	1.07E-04	1.36E-04	2.27E-04	2.27E-04	2.27E-04	9.80E-05	3.58E-05	1.88E-06	2.07E-07	0.00E+00
Georgia	Brantley County	13025	R	1.37E-04	1.37E-04	1.37E-04	5.95E-04	5.05E-04	7.84E-04	7.84E-04	7.84E-04	5.00E-04	4.62E-06	9.91E-07	1.55E-07	0.00E+00
Georgia	Brooks County	13027	R	7.85E-04	7.85E-04	1.11E-03	1.35E-03	1.24E-03	1.36E-03	1.57E-03	1.57E-03	1.22E-03	1.02E-05	2.90E-06	3.21E-07	0.00E+00
Georgia	Bryan County	13029	U	5.71E-04	5.71E-04	5.71E-04	1.06E-03	1.28E-03	2.21E-03	2.21E-03	2.21E-03	1.09E-03	1.79E-04	3.69E-06	1.05E-06	0.00E+00
Georgia	Bulloch County	13031	R	4.26E-05	1.16E-04	3.01E-04	4.18E-04	7.46E-04	5.57E-04	2.34E-03	4.01E-03	6.59E-04	8.31E-05	3.54E-06	3.71E-07	0.00E+00
Georgia	Burke County	13033	R	2.43E-06	2.43E-06	1.98E-04	5.45E-04	4.71E-04	6.65E-04	1.02E-03	1.02E-03	4.51E-04	1.87E-05	1.44E-06	2.13E-07	0.00E+00
Georgia	Butts County	13035	R	1.36E-04	1.36E-04	1.72E-04	2.37E-04	2.21E-04	2.70E-04	2.75E-04	2.75E-04	1.45E-04	7.04E-05	4.99E-06	1.09E-06	0.00E+00
Georgia	Calhoun County	13037	R	7.18E-05	7.18E-05	7.18E-05	1.90E-04	1.90E-04	3.08E-04	3.08E-04	3.08E-04	7.79E-07	1.89E-04	4.94E-07	1.97E-07	0.00E+00
Georgia	Camden County	13039	U	9.71E-04	9.71E-04	1.18E-03	1.66E-03	2.02E-03	3.29E-03	4.42E-03	3.42E-03	1.96E-03	5.79E-05	3.71E-06	1.05E-06	0.00E+00
Georgia	Candler County	13043	R	5.76E-05	5.76E-05	5.76E-05	5.93E-05	7.36E-05	1.04E-04	1.04E-04	1.04E-04	4.83E-05	2.27E-05	2.51E-06	1.32E-07	0.00E+00
Georgia	Carroll County	13045	U	5.23E-05	6.56E-05	7.52E-05	9.01E-05	1.25E-04	1.68E-04	2.50E-04	2.89E-04	8.51E-05	3.22E-05	7.24E-06	4.82E-07	0.00E+00
Georgia	Catoosa County	13047	U	3.98E-04	3.98E-04	4.44E-04	5.71E-04	6.54E-04	8.42E-04	1.12E-03	1.12E-03	3.73E-04	2.67E-04	1.37E-05	1.30E-06	0.00E+00
Georgia	Charlton County	13049	R	1.92E-05	1.92E-05	1.92E-05	2.24E-05	2.24E-05	2.56E-05	2.56E-05	2.56E-05	3.89E-06	1.77E-05	7.36E-07	1.20E-07	0.00E+00
Georgia	Chatham County	13051	U	1.40E-03	2.05E-03	3.48E-03	4.78E-03	4.93E-03	5.85E-03	7.67E-03	9.22E-03	4.61E-03	2.75E-04	1.48E-05	2.54E-05	0.00E+00
Georgia	Chattahoochee County	13053	U	1.82E-03	1.82E-03	1.82E-03	2.68E-03	2.68E-03	3.54E-03	3.54E-03	3.54E-03	2.19E-03	4.84E-04	1.81E-06	4.28E-07	0.00E+00
Georgia	Chattanooga County	13055	R	8.00E-04	8.00E-04	8.71E-04	9.17E-04	9.39E-04	1.04E-03	1.08E-03	1.08E-03	7.18E-04	2.17E-04	3.99E-06	2.71E-07	0.00E+00
Georgia	Cherokee County	13057	U	2.28E-04	2.38E-04	2.43E-04	2.91E-04	3.33E-04	3.46E-04	5.34E-04	5.59E-04	5.81E-05	2.57E-04	1.60E-05	1.67E-06	0.00E+00
Georgia	Clarke County	13059	U	7.79E-04	7.83E-04	8.44E-04	9.76E-04	9.41E-04	1.02E-03	1.09E-03	1.11E-03	4.46E-04	4.85E-04	8.99E-06	1.06E-06	0.00E+00
Georgia	Clay County	13061	R	3.94E-04	3.94E-04	3.94E-04	5.48E-04	5.48E-04	7.02E-04	7.02E-04	7.02E-04	1.14E-04	4.33E-04	7.35E-07	2.71E-07	0.00E+00
Georgia	Clayton County	13063	U	1.15E-04	1.42E-04	1.72E-04	2.21E-04	2.29E-04	2.75E-04	3.56E-04	3.66E-04	2.70E-05	1.72E-04	2.85E-05	1.55E-06	0.00E+00
Georgia	Clinch County	13065	R	2.83E-05	2.83E-05	2.83E-05	1.47E-04	1.47E-04	2.66E-04	2.66E-04	2.66E-04	1.46E-04	8.41E-07	3.29E-07	1.12E-07	0.00E+00
Georgia	Cobb County	13067	U	2.02E-04	2.10E-04	2.63E-04	3.73E-04	3.79E-04	4.56E-04	5.90E-04	7.33E-04	4.42E-05	2.98E-04	3.30E-05	3.42E-06	0.00E+00
Georgia	Coffee County	13069	R	1.28E-05	1.28E-05	1.43E-05	1.91E-05	9.03E-05	2.05E-04	2.34E-04	2.34E-04	7.50E-05	1.28E-05	2.24E-06	2.86E-07	0.00E+00
Georgia	Colquitt County	13071	R	5.96E-05	5.96E-05	7.58E-05	1.07E-04	1.10E-04	1.51E-04	1.74E-04	1.74E-04	7.86E-06	9.73E-05	4.00E-06	3.84E-07	0.00E+00
Georgia	Columbia County	13073	U	7.22E-04	7.59E-04	1.19E-03	1.51E-03	1.53E-03	2.04E-03	2.11E-03	2.14E-03	1.39E-03	1.28E-04	8.73E-06	1.27E-06	0.00E+00
Georgia	Cook County	13075	R	3.58E-05	3.58E-05	6.26E-05	9.58E-05	2.57E-04	4.51E-04	8.01E-04	8.01E-04	2.28E-04	2.44E-05	3.83E-06	2.87E-07	0.00E+00
Georgia	Coweta County	13077	U	1.78E-04	2.00E-04	2.25E-04	2.42E-04	3.88E-04	3.90E-04	9.17E-04	1.10E-03	1.68E-04	2.11E-04	8.03E-06	5.65E-07	0.00E+00
Georgia	Crawford County	13079	R	4.71E-04	4.71E-04	4.71E-04	4.86E-04	4.86E-04	5.02E-04	5.02E-04	5.02E-04	4.58E-04	2.66E-05	1.63E-06	1.56E-07	0.00E+00
Georgia	Crisp County	13081	U	5.60E-06	5.60E-06	1.49E-05	7.56E-05	1.07E-04	2.14E-04	2.24E-04	2.24E-04	6.48E-05	3.56E-05	5.69E-06	8.69E-07	0.00E+00
Georgia	Dade County	13083	U	5.12E-04	5.12E-04	5.12E-04	5.70E-04	5.68E-04	6.22E-04	6.22E-04	6.22E-04	3.95E-04	1.62E-04	9.60E-06	9.10E-07	0.00E+00
Georgia	Dawson County	13085	R	8.47E-06	8.47E-06	8.47E-06	1.06E-05	1.06E-05	1.28E-05	1.28E-05	1.28E-05	4.78E-07	6.78E-06	3.16E-06	2.12E-07	0.00E+00
Georgia	Decatur County	13087	R	1.50E-04	1.50E-04	2.39E-04	3.36E-04	3.99E-04	5.79E-04	7.78E-04	7.78E-04	9.16E-05	3.03E-04	3.77E-06	4.40E-07	0.00E+00
Georgia	DeKalb County	13089	U	3.00E-04	3.10E-04	3.35E-04	3.75E-04	4.22E-04	4.60E-04	5.78E-04	6.93E-04	1.64E-05	3.65E-04	3.76E-05	2.90E-06	0.00E+00
Georgia	Dodge County	13091	R	2.21E-06	2.21E-06	7.44E-06	1.67E-05	2.70E-05	3.68E-05	8.19E-05	8.19E-05	1.72E-05	8.25E-06	1.37E-06	1.47E-07	0.00E+00
Georgia	Dooly County	13093	R	2.72E-04	2.72E-04	2.72E-04	4.10E-04	4.23E-04	5.87E-04	5.87E-04	5.87E-04	3.95E-04	2.65E-05	1.61E-06	2.98E-07	0.00E+00
Georgia	Dougherty County	13095	U	6.48E-04	9.36E-04	1.31E-03	1.75E-03	1.91E-03	2.34E-03	2.80E-03	3.32E-03	7.57E-06	1.89E-03	6.33E-06	9.18E-07	0.00E+00
Georgia	Douglas County	13097	U	1.12E-04	1.23E-04	1.26E-04	1.68E-04	1.72E-04	2.01E-04	2.35E-04	2.40E-04	1.05E-04	4.51E-05	2.10E-05	1.15E-06	0.00E+00
Georgia	Early County	13099	R	2.03E-04	2.03E-04	5.11E-04	5.74E-04	6.96E-04	7.34E-04	1.46E-03	1.46E-03	5.66E-04	1.29E-04	8.81E-07	2.01E-07	0.00E+00
Georgia	Echols County	13101	R	2.56E-04	2.56E-04	2.56E-04	4.94E-04	4.94E-04	7.32E-04	7.32E-04	7.32E-04	4.91E-04	2.09E-06	7.70E-07	1.90E-07	0.00E+00
Georgia	Effingham County	13103	U	6.23E-04	6.23E-04	6.65E-04	7.82E-04	1.04E-03	1.21E-03	2.17E-03	2.17E-03	7.32E-04	3.03E-04	2.40E-06	8.94E-07	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Georgia	Elbert County	13105	R	5.79E-06	5.79E-06	6.54E-06	9.92E-06	1.16E-05	1.09E-05	2.48E-05	2.48E-05	1.43E-07	8.66E-06	2.53E-06	2.68E-07	0.00E+00
Georgia	Emanuel County	13107	R	1.88E-06	1.88E-06	1.90E-05	1.12E-04	1.43E-04	2.68E-04	3.47E-04	3.47E-04	1.26E-04	1.53E-05	2.00E-06	1.49E-07	0.00E+00
Georgia	Evans County	13109	R	1.11E-04	1.11E-04	1.11E-04	1.15E-04	1.24E-04	1.48E-04	1.48E-04	1.48E-04	5.92E-05	6.30E-05	2.19E-06	1.66E-07	0.00E+00
Georgia	Fannin County	13111	R	4.30E-06	4.30E-06	7.28E-06	7.99E-06	4.70E-05	1.13E-05	2.04E-04	2.04E-04	2.18E-05	2.38E-05	1.30E-06	1.25E-07	0.00E+00
Georgia	Fayette County	13113	U	7.50E-05	7.52E-05	1.35E-04	1.51E-04	1.46E-04	1.63E-04	1.79E-04	1.83E-04	6.66E-05	6.60E-05	1.20E-05	9.30E-07	0.00E+00
Georgia	Floyd County	13115	R	6.95E-04	7.44E-04	9.77E-04	1.10E-03	1.26E-03	1.45E-03	2.05E-03	2.51E-03	7.72E-04	4.76E-04	7.25E-06	8.39E-07	0.00E+00
Georgia	Forsyth County	13117	U	3.08E-05	3.08E-05	6.78E-05	7.69E-05	1.04E-04	1.19E-04	2.76E-04	2.76E-04	5.57E-06	8.50E-05	1.21E-05	1.53E-06	0.00E+00
Georgia	Franklin County	13119	R	1.29E-05	1.29E-05	1.47E-05	1.71E-05	1.70E-05	1.92E-05	2.07E-05	2.07E-05	3.11E-07	1.20E-05	4.39E-06	2.25E-07	0.00E+00
Georgia	Fulton County	13121	U	1.95E-04	2.21E-04	2.94E-04	3.60E-04	3.91E-04	4.28E-04	5.54E-04	7.01E-04	3.02E-05	3.16E-04	4.10E-05	4.07E-06	0.00E+00
Georgia	Gilmer County	13123	R	8.28E-06	8.28E-06	1.66E-05	1.84E-05	8.44E-05	2.17E-05	3.57E-04	3.57E-04	1.65E-06	8.05E-05	2.12E-06	1.49E-07	0.00E+00
Georgia	Glascocock County	13125	R	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	6.15E-06	1.44E-04	7.85E-07	9.40E-08	0.00E+00
Georgia	Glynn County	13127	R	3.26E-03	3.87E-03	5.83E-03	8.43E-03	1.14E-02	1.67E-02	2.21E-02	2.55E-02	1.13E-02	4.53E-05	4.78E-06	7.58E-06	0.00E+00
Georgia	Gordon County	13129	R	6.94E-04	6.94E-04	8.18E-04	8.98E-04	8.80E-04	9.17E-04	1.08E-03	1.08E-03	2.30E-04	6.41E-04	8.13E-06	6.59E-07	0.00E+00
Georgia	Grady County	13131	R	6.52E-05	6.52E-05	1.10E-04	1.24E-04	1.20E-04	1.39E-04	1.56E-04	1.56E-04	1.80E-05	9.87E-05	2.77E-06	3.86E-07	0.00E+00
Georgia	Greene County	13133	R	7.96E-04	7.96E-04	1.10E-03	1.12E-03	1.11E-03	1.14E-03	1.40E-03	1.40E-03	9.09E-04	2.00E-04	2.16E-06	1.83E-07	0.00E+00
Georgia	Gwinnett County	13135	U	2.86E-04	3.40E-04	4.36E-04	5.17E-04	5.27E-04	5.90E-04	6.40E-04	6.70E-04	1.51E-05	4.84E-04	2.53E-05	3.35E-06	0.00E+00
Georgia	Habersham County	13137	R	1.89E-05	1.89E-05	2.03E-05	1.71E-04	1.65E-04	2.29E-04	3.45E-04	3.45E-04	1.51E-07	1.62E-04	2.92E-06	1.86E-07	0.00E+00
Georgia	Hall County	13139	R	1.42E-05	5.96E-05	7.52E-05	1.15E-04	1.09E-04	1.38E-04	1.62E-04	1.71E-04	1.24E-06	9.95E-05	7.89E-06	7.90E-07	0.00E+00
Georgia	Hancock County	13141	R	3.80E-04	3.80E-04	3.80E-04	4.98E-04	6.75E-04	1.15E-03	1.15E-03	1.15E-03	7.29E-05	6.01E-04	8.58E-07	8.65E-08	0.00E+00
Georgia	Haralson County	13143	R	6.52E-05	6.52E-05	8.25E-05	1.18E-04	1.66E-04	2.49E-04	3.63E-04	3.63E-04	1.18E-04	4.39E-05	4.06E-06	2.55E-07	0.00E+00
Georgia	Harris County	13145	U	1.17E-03	1.17E-03	1.20E-03	1.23E-03	1.49E-03	1.79E-03	2.33E-03	2.33E-03	1.14E-03	3.48E-04	3.22E-06	2.68E-07	0.00E+00
Georgia	Hart County	13147	R	1.39E-05	1.39E-05	1.45E-05	1.53E-05	1.68E-05	1.91E-05	2.10E-05	2.10E-05	1.93E-07	1.28E-05	3.41E-06	3.43E-07	0.00E+00
Georgia	Heard County	13149	R	5.21E-05	5.21E-05	5.21E-05	9.85E-05	9.79E-05	1.43E-04	1.43E-04	1.43E-04	6.84E-05	2.75E-05	1.87E-06	1.29E-07	0.00E+00
Georgia	Henry County	13151	U	6.63E-05	1.04E-04	1.31E-04	1.66E-04	1.88E-04	2.63E-04	2.95E-04	3.29E-04	3.47E-05	1.38E-04	1.43E-05	1.10E-06	0.00E+00
Georgia	Houston County	13153	U	4.77E-04	5.31E-04	6.66E-04	8.06E-04	9.32E-04	1.05E-03	1.53E-03	2.47E-03	4.78E-04	4.46E-04	7.00E-06	9.50E-07	0.00E+00
Georgia	Irwin County	13155	R	3.56E-05	3.56E-05	3.56E-05	4.22E-05	4.22E-05	4.87E-05	4.87E-05	4.87E-05	0.00E+00	4.09E-05	1.04E-06	2.85E-07	0.00E+00
Georgia	Jackson County	13157	R	2.15E-04	2.15E-04	2.49E-04	2.57E-04	3.12E-04	4.32E-04	4.92E-04	4.92E-04	1.47E-05	2.91E-04	6.11E-06	3.64E-07	0.00E+00
Georgia	Jasper County	13159	R	3.85E-04	3.85E-04	4.14E-04	4.82E-04	4.76E-04	5.38E-04	5.55E-04	5.55E-04	3.31E-04	1.42E-04	1.81E-06	1.68E-07	0.00E+00
Georgia	Jeff Davis County	13161	R	4.49E-05	4.49E-05	4.49E-05	9.05E-05	7.56E-05	9.14E-05	9.14E-05	9.14E-05	4.79E-05	2.66E-05	9.06E-07	1.61E-07	0.00E+00
Georgia	Jefferson County	13163	R	5.57E-06	5.57E-06	2.34E-05	6.20E-05	1.25E-04	2.27E-04	3.70E-04	3.70E-04	7.18E-05	5.16E-05	1.39E-06	1.91E-07	0.00E+00
Georgia	Jenkins County	13165	R	1.31E-05	1.31E-05	1.31E-05	1.99E-05	1.99E-05	2.66E-05	2.66E-05	2.66E-05	1.75E-05	1.63E-06	6.31E-07	1.46E-07	0.00E+00
Georgia	Johnson County	13167	R	8.71E-05	8.71E-05	8.71E-05	1.17E-04	1.17E-04	1.48E-04	1.48E-04	1.48E-04	1.11E-04	5.29E-06	1.09E-06	1.15E-07	0.00E+00
Georgia	Jones County	13169	U	4.59E-04	4.59E-04	5.55E-04	6.31E-04	6.48E-04	7.26E-04	8.72E-04	8.72E-04	3.12E-04	3.32E-04	3.59E-06	3.09E-07	0.00E+00
Georgia	Lamar County	13171	R	8.17E-05	8.17E-05	8.17E-05	9.08E-05	8.91E-05	9.49E-05	9.49E-05	9.49E-05	6.91E-05	1.76E-05	2.20E-06	3.12E-07	0.00E+00
Georgia	Landrum County	13173	R	7.00E-04	7.00E-04	7.00E-04	7.29E-04	7.29E-04	7.58E-04	7.58E-04	7.58E-04	7.25E-04	1.95E-06	1.68E-06	3.13E-07	0.00E+00
Georgia	Laurens County	13175	R	2.31E-05	7.16E-05	1.29E-04	2.55E-04	2.93E-04	4.00E-04	5.56E-04	6.77E-04	2.70E-04	1.72E-05	5.37E-06	2.17E-07	0.00E+00
Georgia	Lee County	13177	R	4.12E-04	4.12E-04	4.30E-04	6.60E-04	6.63E-04	8.97E-04	9.21E-04	9.21E-04	2.71E-06	6.58E-04	2.17E-06	3.35E-07	0.00E+00
Georgia	Liberty County	13179	R	9.09E-04	9.09E-04	1.66E-03	1.78E-03	1.83E-03	1.97E-03	2.71E-03	2.71E-03	1.71E-03	1.14E-04	6.04E-06	5.62E-07	0.00E+00
Georgia	Lincoln County	13181	R	4.09E-05	4.09E-05	4.09E-05	4.89E-05	4.89E-05	5.69E-05	5.69E-05	5.69E-05	8.88E-06	3.80E-05	1.62E-06	3.88E-07	0.00E+00
Georgia	Long County	13183	R	1.40E-03	1.40E-03	1.40E-03	2.87E-03	2.87E-03	4.35E-03	4.35E-03	4.35E-03	2.79E-03	8.25E-05	1.11E-06	1.16E-07	0.00E+00
Georgia	Lowndes County	13185	R	1.31E-03	1.31E-03	1.69E-03	2.45E-03	2.37E-03	3.05E-03	3.26E-03	3.43E-03	2.34E-03	2.38E-05	5.59E-06	5.99E-07	0.00E+00
Georgia	Lumpkin County	13187	R	5.93E-06	5.93E-06	5.93E-06	7.04E-06	6.96E-06	7.90E-06	7.90E-06	7.90E-06	2.98E-08	4.72E-06	2.10E-06	1.07E-07	0.00E+00
Georgia	McDuffie County	13189	U	1.47E-04	1.47E-04	2.22E-04	3.33E-04	3.54E-04	4.54E-04	6.13E-04	6.13E-04	1.34E-04	2.16E-04	3.96E-06	2.37E-07	0.00E+00
Georgia	McIntosh County	13191	R	1.25E-03	1.25E-03	1.25E-03	1.74E-03	1.59E-03	1.78E-03	1.78E-03	1.78E-03	1.57E-03	1.97E-05	2.11E-06	6.37E-07	0.00E+00
Georgia	Macon County	13193	R	4.10E-04	4.10E-04	6.06E-04	9.27E-04	1.11E-03	1.61E-03	2.17E-03	2.17E-03	1.07E-03	3.24E-05	7.83E-07	2.42E-07	0.00E+00
Georgia	Madison County	13195	R	1.06E-05	1.06E-05	1.23E-05	1.39E-04	1.26E-04	2.24E-04	2.31E-04	2.31E-04	1.17E-06	1.21E-04	3.32E-06	2.43E-07	0.00E+00
Georgia	Marion County	13197	R	1.27E-03	1.27E-03	1.27E-03	1.42E-03	1.42E-03	1.57E-03	1.57E-03	1.57E-03	1.12E-03	3.01E-04	9.49E-07	1.26E-07	0.00E+00
Georgia	Meriwether County	13199	R	1.66E-04	1.66E-04	2.41E-04	2.99E-04	4.81E-04	7.13E-04	1.17E-03	1.17E-03	3.96E-04	8.34E-05	1.83E-06	2.05E-07	0.00E+00
Georgia	Miller County	13201	R	4.99E-04	4.99E-04	4.99E-04	5.64E-04	6.38E-04	8.51E-04	8.51E-04	8.51E-04	5.65E-04	7.14E-05	7.87E-07	2.10E-07	0.00E+00
Georgia	Mitchell County	13205	R	2.60E-04	2.60E-04	4.42E-04	4.80E-04	4.49E-04	5.15E-04	5.49E-04	5.49E-04	1.51E-06	4.45E-04	2.05E-06	3.44E-07	0.00E+00
Georgia	Monroe County	13207	R	2.10E-04	2.10E-04	2.10E-04	2.59E-04	2.52E-04	2.86E-04	2.86E-04	2.86E-04	2.24E-04	2.30E-05	4.03E-06	3.61E-07	0.00E+00
Georgia	Montgomery County	13209	R	1.24E-04	1.24E-											

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Georgia	Muscogee County	13215	U	2.94E-03	3.60E-03	6.05E-03	1.11E-02	2.60E-02	2.02E-02	3.08E-02	8.06E-02	2.09E-02	5.03E-03	1.36E-05	1.61E-06	0.00E+00
Georgia	Newton County	13217	U	2.30E-04	2.30E-04	9.74E-04	1.20E-03	1.03E-03	1.30E-03	1.38E-03	1.38E-03	7.09E-04	3.09E-04	1.21E-05	8.65E-07	0.00E+00
Georgia	Oconee County	13219	R	7.42E-04	7.42E-04	9.21E-04	9.40E-04	9.71E-04	1.08E-03	1.20E-03	1.20E-03	6.42E-04	3.24E-04	4.54E-06	4.85E-07	0.00E+00
Georgia	Oglethorpe County	13221	R	3.17E-05	3.17E-05	3.17E-05	5.47E-04	3.94E-04	6.04E-04	6.04E-04	6.04E-04	2.86E-04	1.07E-04	1.59E-06	1.78E-07	0.00E+00
Georgia	Paulding County	13223	U	8.06E-04	8.06E-04	9.43E-04	1.03E-03	1.11E-03	1.15E-03	1.76E-03	1.76E-03	1.15E-04	9.79E-04	1.45E-05	1.07E-06	0.00E+00
Georgia	Peach County	13225	U	4.26E-04	4.26E-04	4.38E-04	4.58E-04	4.69E-04	4.79E-04	5.45E-04	5.45E-04	4.09E-04	5.66E-05	3.62E-06	3.57E-07	0.00E+00
Georgia	Pickens County	13227	U	3.85E-05	3.85E-05	1.38E-04	2.06E-04	2.26E-04	2.73E-04	4.97E-04	4.97E-04	9.97E-06	2.13E-04	3.26E-06	2.28E-07	0.00E+00
Georgia	Pierce County	13229	R	2.31E-04	2.31E-04	4.19E-04	6.53E-04	5.66E-04	7.13E-04	7.25E-04	7.25E-04	5.63E-04	1.75E-06	1.05E-06	1.99E-07	0.00E+00
Georgia	Pike County	13231	R	1.21E-04	1.21E-04	1.25E-04	1.35E-04	1.34E-04	1.43E-04	1.44E-04	1.44E-04	1.02E-04	2.95E-05	1.91E-06	1.68E-07	0.00E+00
Georgia	Polk County	13233	R	5.53E-04	5.53E-04	5.95E-04	9.17E-04	8.69E-04	9.43E-04	1.44E-03	1.44E-03	6.05E-04	2.57E-04	5.97E-06	5.60E-07	0.00E+00
Georgia	Pulaski County	13235	R	1.42E-05	1.42E-05	1.42E-05	2.13E-05	2.18E-05	2.99E-05	2.99E-05	2.99E-05	1.70E-06	1.86E-05	1.20E-06	3.13E-07	0.00E+00
Georgia	Putnam County	13237	R	6.65E-04	6.65E-04	6.65E-04	7.64E-04	8.52E-04	1.13E-03	1.13E-03	1.13E-03	3.16E-04	5.35E-04	1.21E-06	1.57E-07	0.00E+00
Georgia	Quitman County	13239	R	7.34E-04	7.34E-04	7.34E-04	7.89E-04	7.89E-04	8.43E-04	8.43E-04	8.43E-04	2.81E-05	7.59E-04	8.96E-07	2.26E-07	0.00E+00
Georgia	Rabun County	13241	R	5.46E-04	5.46E-04	5.46E-04	1.66E-03	2.24E-03	4.51E-03	4.51E-03	4.51E-03	0.00E+00	2.24E-03	1.32E-06	1.51E-07	0.00E+00
Georgia	Randolph County	13243	R	9.53E-05	9.53E-05	9.53E-05	1.14E-04	1.14E-04	1.33E-04	1.33E-04	1.33E-04	1.41E-06	1.12E-04	6.55E-07	2.55E-07	0.00E+00
Georgia	Richmond County	13245	U	1.30E-03	1.91E-03	2.58E-03	4.23E-03	6.32E-03	8.56E-03	1.33E-02	1.67E-02	6.04E-03	2.57E-04	1.47E-05	1.42E-06	0.00E+00
Georgia	Rockdale County	13247	U	2.22E-04	4.14E-04	5.49E-04	6.24E-04	1.07E-03	1.51E-03	2.28E-03	2.67E-03	7.10E-05	9.78E-04	1.83E-05	1.45E-06	0.00E+00
Georgia	Schley County	13249	R	3.39E-04	3.39E-04	3.39E-04	4.44E-04	4.44E-04	5.49E-04	5.49E-04	5.49E-04	3.01E-04	1.41E-04	9.48E-07	1.40E-07	0.00E+00
Georgia	Screven County	13251	R	1.19E-04	1.19E-04	1.46E-04	1.70E-04	2.14E-04	1.99E-04	4.39E-04	4.39E-04	1.97E-04	1.59E-05	9.40E-07	1.72E-07	0.00E+00
Georgia	Seminole County	13253	R	6.81E-04	6.81E-04	6.81E-04	7.98E-04	8.10E-04	9.51E-04	9.51E-04	9.51E-04	6.68E-04	1.40E-04	1.44E-06	3.94E-07	0.00E+00
Georgia	Spalding County	13255	U	4.47E-05	5.03E-05	5.92E-05	8.83E-05	9.19E-05	1.02E-04	1.47E-04	1.80E-04	3.29E-05	5.04E-05	7.99E-06	5.53E-07	0.00E+00
Georgia	Stephens County	13257	R	5.18E-05	5.18E-05	1.25E-04	1.99E-04	1.67E-04	2.08E-04	2.17E-04	2.17E-04	4.22E-08	1.61E-04	5.36E-06	3.98E-07	0.00E+00
Georgia	Stewart County	13259	R	3.61E-04	3.61E-04	3.61E-04	1.02E-03	1.00E-03	1.63E-03	1.63E-03	1.63E-03	5.94E-04	4.06E-04	6.66E-07	1.33E-07	0.00E+00
Georgia	Sumter County	13261	U	2.70E-04	2.70E-04	4.62E-04	6.79E-04	9.50E-04	9.51E-04	3.15E-03	3.15E-03	1.26E-04	8.20E-04	4.58E-06	4.13E-07	0.00E+00
Georgia	Talbot County	13263	R	9.42E-04	9.42E-04	9.42E-04	9.51E-04	1.01E-03	1.14E-03	1.14E-03	1.14E-03	8.72E-04	1.38E-04	9.93E-07	2.25E-07	0.00E+00
Georgia	Taliaferro County	13265	R	2.59E-04	2.59E-04	2.59E-04	2.59E-04	2.59E-04	2.59E-04	2.59E-04	2.59E-04	1.15E-05	2.46E-04	1.88E-06	9.33E-08	0.00E+00
Georgia	Tattnall County	13267	R	5.20E-05	5.20E-05	6.71E-05	2.60E-04	2.69E-04	4.70E-04	5.03E-04	5.03E-04	2.18E-04	4.94E-05	1.34E-06	1.53E-07	0.00E+00
Georgia	Taylor County	13269	R	3.06E-04	3.06E-04	3.06E-04	5.26E-04	4.64E-04	5.59E-04	5.59E-04	5.59E-04	4.53E-04	1.00E-05	8.09E-07	2.38E-07	0.00E+00
Georgia	Telfair County	13271	R	1.72E-05	1.72E-05	2.50E-05	3.41E-05	4.70E-05	6.89E-05	1.02E-04	1.02E-04	9.87E-06	3.63E-05	6.56E-07	1.25E-07	0.00E+00
Georgia	Terrell County	13273	U	3.52E-04	3.52E-04	3.63E-04	3.76E-04	3.97E-04	4.31E-04	4.83E-04	4.83E-04	1.27E-06	3.93E-04	1.95E-06	3.22E-07	0.00E+00
Georgia	Thomas County	13275	R	4.20E-06	8.45E-06	1.49E-05	4.79E-05	1.05E-04	7.92E-05	8.38E-05	7.17E-04	6.60E-05	3.40E-05	4.39E-06	5.58E-07	0.00E+00
Georgia	Tift County	13277	R	8.88E-05	8.88E-05	1.71E-04	2.42E-04	3.05E-04	3.79E-04	7.42E-04	7.42E-04	3.44E-08	2.98E-04	6.46E-06	5.48E-07	0.00E+00
Georgia	Toombs County	13279	U	8.29E-05	8.29E-05	1.15E-04	1.19E-04	1.27E-04	1.42E-04	1.86E-04	1.86E-04	7.45E-05	4.92E-05	3.32E-06	2.24E-07	0.00E+00
Georgia	Towns County	13281	R	3.17E-04	3.17E-04	3.17E-04	4.91E-04	4.53E-04	5.50E-04	5.50E-04	5.50E-04	1.81E-05	4.34E-04	1.04E-06	1.03E-07	0.00E+00
Georgia	Treutlen County	13283	R	1.48E-04	1.48E-04	1.48E-04	2.41E-04	2.41E-04	3.34E-04	3.34E-04	3.34E-04	2.19E-04	1.95E-05	2.47E-06	1.14E-07	0.00E+00
Georgia	Troup County	13285	U	1.45E-04	1.58E-04	2.38E-04	3.10E-04	4.49E-04	4.12E-04	8.18E-04	1.61E-03	2.56E-04	1.84E-04	8.34E-06	5.72E-07	0.00E+00
Georgia	Turner County	13287	U	4.32E-05	4.32E-05	4.32E-05	1.05E-04	1.05E-04	1.66E-04	1.66E-04	1.66E-04	6.59E-08	1.01E-04	3.20E-06	4.50E-07	0.00E+00
Georgia	Twiggs County	13289	U	4.88E-04	4.88E-04	4.88E-04	8.31E-04	8.31E-04	1.17E-03	1.17E-03	1.17E-03	5.90E-04	2.37E-04	3.71E-06	2.48E-07	0.00E+00
Georgia	Union County	13291	R	9.22E-06	9.22E-06	9.22E-06	1.06E-05	1.72E-05	3.18E-05	3.18E-05	3.18E-05	7.62E-06	8.21E-06	1.24E-06	1.30E-07	0.00E+00
Georgia	Upson County	13293	R	5.15E-05	5.15E-05	8.58E-05	1.17E-04	1.11E-04	1.47E-04	1.48E-04	1.48E-04	8.28E-05	2.60E-05	2.07E-06	2.99E-07	0.00E+00
Georgia	Walker County	13295	U	3.89E-04	3.97E-04	5.65E-04	8.71E-04	1.10E-03	1.35E-03	2.02E-03	3.39E-03	5.52E-04	5.41E-04	9.92E-06	1.10E-06	0.00E+00
Georgia	Walton County	13297	U	4.73E-04	4.73E-04	5.07E-04	5.60E-04	6.43E-04	6.23E-04	1.35E-03	1.35E-03	3.65E-04	2.69E-04	8.31E-06	8.57E-07	0.00E+00
Georgia	Ware County	13299	R	2.66E-04	2.66E-04	4.15E-04	5.60E-04	7.38E-04	6.41E-04	2.51E-03	2.51E-03	7.21E-04	1.17E-05	4.87E-06	3.95E-07	0.00E+00
Georgia	Warren County	13301	R	2.43E-04	2.43E-04	2.43E-04	6.28E-04	9.85E-04	2.08E-03	2.08E-03	2.08E-03	6.05E-06	9.77E-04	1.71E-06	1.06E-07	0.00E+00
Georgia	Washington County	13303	R	2.70E-05	2.70E-05	4.09E-04	8.54E-04	7.35E-04	8.63E-04	1.52E-03	1.52E-03	2.31E-05	7.10E-04	1.66E-06	2.00E-07	0.00E+00
Georgia	Wayne County	13305	R	1.02E-03	1.02E-03	1.07E-03	1.74E-03	2.50E-03	3.27E-03	6.14E-03	6.14E-03	2.48E-03	1.25E-05	2.28E-06	1.86E-07	0.00E+00
Georgia	Webster County	13307	R	2.49E-04	2.49E-04	2.49E-04	2.77E-04	2.77E-04	3.06E-04	3.06E-04	3.06E-04	2.82E-05	2.48E-04	5.87E-07	1.36E-07	0.00E+00
Georgia	Wheeler County	13309	R	6.53E-05	6.53E-05	6.53E-05	7.48E-05	7.48E-05	8.44E-05	8.44E-05	8.44E-05	4.67E-05	2.72E-05	8.03E-07	1.12E-07	0.00E+00
Georgia	White County	13311	R	9.23E-06	9.23E-06	9.23E-06	1.35E-05	2.32E-05	4.71E-05	6.72E-04	6.72E-04	4.71E-08	2.29E-04	2.11E-06	1.12E-07	0.00E+00
Georgia	Whitfield County	13313	R	1.88E-04	2.16E-04	2.60E-04	3.64E-04	3.48E-04	3.96E-04	5.24E-04	5.31E-04	8.86E-05	2.46E-04	1.20E-05	1.48E-06	0.00E+00
Georgia	Wilcox County	13315	R	2.75E-06	2.75E-06	2.99E-06	3.48E-06	3.61E-06	4.23E-06	4.72E-06	4.72E-06	0.00E+00	1.95E-06	1.36E-06	2.94E-07	0.00E+00
Georgia	Wilkes County	13317	R	9.20E-05	9.20E-05	9.20E-05	1.26E-04	1.26E-04	1.59E-04	1.59E-04	1.59E-04	3.31E-06	1.21E-04	1.18E-06	1.71E-07	0.00E+00
Georgia	Wilkinson County	13319	R	6.23E-04	6.23E-04	6.23E-04	7.23E-04	7.14E-04	7.97E-04	7.97E-04	7.97E-04	4.08E-04	3.04E-04	2.04E-06	2.26E-07	0.00E+00
Georgia	Worth County	13321	R	1.59E-04	1.59E-04	2.08E-04	2.37E-04	2.53E-04	2.38E-04	4.25E-04	4.25E-04	1.11E-06	2.50E-04	2.30E-06	2.97E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	Percentile Distribution of Ambient Concentrations Across Census Tracts								Contribution to Average from ...				
				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Hawaii	Statewide	N/A	N/A	1.23E-06	2.07E-06	5.89E-06	1.56E-05	3.60E-05	5.40E-05	9.63E-05	1.19E-04	1.06E-05	1.26E-05	7.85E-06	4.92E-06	0.00E+00
Hawaii	All Urban Counties	N/A	U	3.11E-06	4.46E-06	8.78E-06	2.06E-05	3.91E-05	5.63E-05	9.50E-05	1.13E-04	1.40E-05	9.18E-06	9.86E-06	6.04E-06	0.00E+00
Hawaii	All Rural Counties	N/A	R	3.44E-07	4.81E-07	1.75E-06	3.61E-06	2.64E-05	1.68E-05	1.18E-04	1.33E-04	0.00E+00	2.34E-05	1.54E-06	1.41E-06	0.00E+00
Hawaii	Hawaii County	15001	R	4.63E-07	5.07E-07	2.02E-06	3.03E-05	5.69E-05	1.12E-04	1.36E-04	1.37E-04	0.00E+00	5.39E-05	2.14E-06	9.01E-07	0.00E+00
Hawaii	Honolulu County	15003	U	3.11E-06	4.46E-06	8.78E-06	2.06E-05	3.91E-05	5.63E-05	9.50E-05	1.13E-04	1.40E-05	9.18E-06	9.86E-06	6.04E-06	0.00E+00
Hawaii	Kalawao County	15005	R	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	6.97E-07	0.00E+00	1.05E-07	1.37E-07	4.55E-07	0.00E+00
Hawaii	Kauai County	15007	R	1.43E-08	3.87E-08	4.85E-07	2.40E-06	2.13E-06	2.81E-06	5.07E-06	5.11E-06	0.00E+00	9.17E-07	6.71E-07	5.45E-07	0.00E+00
Hawaii	Maui County	15009	R	3.44E-07	7.51E-07	1.65E-06	3.26E-06	7.10E-06	9.28E-06	1.68E-05	1.70E-05	0.00E+00	3.41E-06	1.36E-06	2.32E-06	0.00E+00
Idaho	Statewide	N/A	N/A	8.98E-05	2.87E-04	9.76E-04	4.14E-03	6.70E-03	1.07E-02	1.65E-02	2.23E-02	1.96E-05	6.67E-03	4.66E-06	6.43E-07	0.00E+00
Idaho	All Urban Counties	N/A	U	4.34E-04	8.56E-04	3.20E-03	7.80E-03	9.25E-03	1.27E-02	2.01E-02	2.41E-02	1.50E-05	9.23E-03	6.66E-06	8.86E-07	0.00E+00
Idaho	All Rural Counties	N/A	R	5.28E-05	8.52E-05	3.37E-04	9.29E-04	1.87E-03	2.09E-03	4.37E-03	6.11E-03	2.83E-05	1.84E-03	8.86E-07	1.84E-07	0.00E+00
Idaho	Ada County	16001	U	2.26E-03	4.04E-03	7.96E-03	1.15E-02	1.30E-02	1.60E-02	2.07E-02	3.34E-02	2.98E-07	1.29E-02	1.06E-05	1.33E-06	0.00E+00
Idaho	Adams County	16003	R	2.88E-04	2.88E-04	2.88E-04	1.02E-03	1.02E-03	1.75E-03	1.75E-03	1.75E-03	0.00E+00	1.02E-03	7.10E-08	1.74E-08	0.00E+00
Idaho	Bannock County	16005	U	4.94E-04	8.56E-04	3.18E-03	5.32E-03	6.02E-03	8.94E-03	1.13E-02	1.19E-02	9.81E-06	6.01E-03	4.88E-06	6.79E-07	0.00E+00
Idaho	Bear Lake County	16007	R	2.81E-04	2.81E-04	2.81E-04	3.97E-04	3.97E-04	5.13E-04	5.13E-04	5.13E-04	7.09E-05	3.26E-04	1.77E-07	2.10E-07	0.00E+00
Idaho	Benewah County	16009	R	1.32E-03	1.32E-03	1.32E-03	1.49E-03	1.49E-03	1.65E-03	1.65E-03	1.65E-03	5.32E-04	9.55E-04	1.13E-06	1.85E-07	0.00E+00
Idaho	Bingham County	16011	R	2.39E-04	2.39E-04	1.10E-03	1.73E-03	2.18E-03	2.70E-03	6.11E-03	6.11E-03	1.01E-06	2.17E-03	2.05E-06	2.89E-07	0.00E+00
Idaho	Blaine County	16013	R	9.00E-05	9.00E-05	2.54E-04	4.70E-04	4.33E-04	6.12E-04	7.04E-04	7.04E-04	0.00E+00	4.33E-04	1.35E-07	7.12E-08	0.00E+00
Idaho	Boise County	16015	R	1.44E-04	1.44E-04	1.44E-04	1.44E-04	1.44E-04	1.44E-04	1.44E-04	1.44E-04	0.00E+00	1.44E-04	9.82E-08	2.68E-08	0.00E+00
Idaho	Bonner County	16017	R	2.09E-04	2.09E-04	1.39E-03	2.88E-03	4.91E-03	3.50E-03	2.56E-02	2.56E-02	3.08E-06	4.90E-03	1.07E-06	2.85E-07	0.00E+00
Idaho	Bonneville County	16019	U	2.88E-04	3.10E-03	4.56E-03	6.93E-03	9.47E-03	1.13E-02	2.01E-02	2.61E-02	0.00E+00	9.47E-03	5.41E-06	5.81E-07	0.00E+00
Idaho	Boundary County	16021	R	7.18E-04	7.18E-04	7.18E-04	8.58E-04	8.58E-04	9.99E-04	9.99E-04	9.99E-04	0.00E+00	8.58E-04	4.82E-07	1.43E-07	0.00E+00
Idaho	Butte County	16023	R	5.39E-05	5.39E-05	5.39E-05	5.39E-05	5.39E-05	5.39E-05	5.39E-05	5.39E-05	0.00E+00	5.39E-05	3.35E-08	1.62E-08	0.00E+00
Idaho	Camas County	16025	R	7.75E-05	7.75E-05	7.75E-05	7.75E-05	7.75E-05	7.75E-05	7.75E-05	7.75E-05	0.00E+00	7.75E-05	1.29E-08	1.77E-08	0.00E+00
Idaho	Canyon County	16027	U	1.46E-03	1.47E-03	2.82E-03	6.52E-03	1.12E-02	2.13E-02	2.41E-02	2.64E-02	9.20E-07	1.12E-02	9.65E-06	1.08E-06	0.00E+00
Idaho	Caribou County	16029	R	8.27E-04	8.27E-04	8.27E-04	8.78E-04	8.78E-04	9.29E-04	9.29E-04	9.29E-04	5.58E-04	3.20E-04	1.04E-07	1.29E-07	0.00E+00
Idaho	Cassia County	16031	R	4.84E-05	4.84E-05	1.01E-04	1.29E-03	2.61E-03	2.29E-03	1.07E-02	1.07E-02	9.37E-07	2.61E-03	1.27E-06	2.64E-07	0.00E+00
Idaho	Clark County	16033	R	8.52E-05	8.52E-05	8.52E-05	8.52E-05	8.52E-05	8.52E-05	8.52E-05	8.52E-05	0.00E+00	8.50E-05	1.53E-07	5.06E-08	0.00E+00
Idaho	Clearwater County	16035	R	6.47E-04	6.47E-04	6.47E-04	1.38E-03	1.38E-03	2.12E-03	2.12E-03	2.12E-03	5.45E-06	1.38E-03	3.14E-07	1.81E-07	0.00E+00
Idaho	Custer County	16037	R	4.39E-05	4.39E-05	4.39E-05	4.39E-05	4.39E-05	4.39E-05	4.39E-05	4.39E-05	0.00E+00	4.39E-05	2.99E-08	1.50E-08	0.00E+00
Idaho	Elmore County	16039	R	1.05E-04	1.05E-04	7.92E-04	8.20E-04	9.59E-04	8.91E-04	2.19E-03	2.19E-03	0.00E+00	9.58E-04	1.12E-06	1.61E-07	0.00E+00
Idaho	Franklin County	16041	R	4.35E-04	4.35E-04	4.35E-04	5.91E-04	5.91E-04	7.47E-04	7.47E-04	7.47E-04	0.00E+00	5.90E-04	4.54E-07	1.67E-07	0.00E+00
Idaho	Fremont County	16043	R	8.29E-05	8.29E-05	8.29E-05	3.70E-04	6.94E-04	1.63E-03	1.63E-03	1.63E-03	0.00E+00	6.93E-04	5.08E-07	1.95E-07	0.00E+00
Idaho	Gem County	16045	R	3.34E-03	3.34E-03	3.34E-03	4.10E-03	6.19E-03	1.11E-02	1.11E-02	1.11E-02	8.67E-07	6.19E-03	2.89E-06	3.26E-07	0.00E+00
Idaho	Gooding County	16047	R	5.73E-04	5.73E-04	5.73E-04	8.63E-04	8.63E-04	1.15E-03	1.15E-03	1.15E-03	1.07E-06	8.61E-04	6.32E-07	1.53E-07	0.00E+00
Idaho	Idaho County	16049	R	4.43E-05	4.43E-05	5.28E-05	9.54E-04	8.05E-04	1.01E-03	1.97E-03	1.97E-03	4.99E-08	8.05E-04	1.45E-07	6.77E-08	0.00E+00
Idaho	Jefferson County	16051	R	1.82E-04	1.82E-04	1.13E-03	2.47E-03	2.50E-03	3.88E-03	4.88E-03	4.88E-03	0.00E+00	2.50E-03	1.42E-06	2.47E-07	0.00E+00
Idaho	Jerome County	16053	R	3.37E-04	3.37E-04	1.01E-03	1.04E-03	2.81E-03	4.37E-03	7.29E-03	7.29E-03	4.20E-06	2.80E-03	1.39E-06	2.95E-07	0.00E+00
Idaho	Kootenai County	16055	U	2.08E-03	2.24E-03	3.50E-03	1.02E-02	8.85E-03	1.17E-02	1.48E-02	1.82E-02	8.50E-05	8.76E-03	5.74E-06	7.50E-07	0.00E+00
Idaho	Latah County	16057	U	1.37E-03	1.37E-03	1.48E-03	5.40E-03	4.60E-03	7.78E-03	7.80E-03	7.80E-03	7.97E-05	4.51E-03	2.65E-06	6.28E-07	0.00E+00
Idaho	Lemhi County	16059	R	1.74E-05	1.74E-05	1.74E-05	2.69E-04	2.13E-04	3.53E-04	3.53E-04	3.53E-04	0.00E+00	2.13E-04	5.90E-08	2.12E-08	0.00E+00
Idaho	Lewis County	16061	R	8.40E-04	8.40E-04	8.40E-04	1.36E-03	2.73E-03	5.98E-03	5.98E-03	5.98E-03	1.27E-07	2.73E-03	4.40E-07	1.98E-07	0.00E+00
Idaho	Lincoln County	16063	R	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	0.00E+00	2.92E-04	3.01E-07	7.40E-08	0.00E+00
Idaho	Madison County	16065	U	1.89E-03	1.89E-03	2.23E-03	6.94E-03	9.54E-03	1.27E-02	2.65E-02	2.65E-02	0.00E+00	9.53E-03	5.69E-06	1.06E-06	0.00E+00
Idaho	Minidoka County	16067	R	4.60E-04	4.60E-04	9.45E-04	1.13E-03	2.13E-03	3.08E-03	5.05E-03	5.05E-03	7.51E-06	2.12E-03	1.43E-06	3.31E-07	0.00E+00
Idaho	Nez Perce County	16069	U	7.57E-04	8.96E-04	1.49E-03	8.04E-03	8.24E-03	1.50E-02	1.58E-02	1.65E-02	0.00E+00	8.24E-03	2.89E-06	1.05E-06	0.00E+00
Idaho	Oneida County	16071	R	3.46E-04	3.46E-04	3.46E-04	3.46E-04	3.46E-04	3.46E-04	3.46E-04	3.46E-04	0.00E+00	3.45E-04	3.90E-07	6.64E-08	0.00E+00
Idaho	Owyhee County	16073	R	8.97E-05	8.97E-05	1.10E-04	1.01E-03	1.14E-03	2.17E-03	2.46E-03	2.46E-03	8.93E-08	1.14E-03	7.25E-07	1.28E-07	0.00E+00
Idaho	Payette County	16075	U	2.30E-03	2.30E-03	2.46E-03	2.93E-03	3.64E-03	4.82E-03	6.40E-03	6.40E-03	1.39E-06	3.63E-03	2.28E-06	3.36E-07	0.00E+00
Idaho	Power County	16077	U	2.71E-04	2.71E-04	2.71E-04	3.52E-04	3.52E-04	4.33E-04	4.33E-04	4.33E-04	1.23E-06	3.50E-04	4.96E-07	1.60E-07	0.00E+00
Idaho	Shoshone County	16079	R	1.24E-03	1.24E-03	1.24E-03	1.85E-03	2.45E-03	4.26E-03	4.26E-03	4.26E-03	1.03E-04	2.35E-03	8.80E-07	6.37E-08	0.00E+00
Idaho	Teton County	16081	R	2.61E-04	2.61E-04	2.61E-04	2.61E-04	2.61E-04	2.61E-04	2.61E-04	2.61E-04	0.00E+00	2.60E-04	2.31E-07	1.55E-07	0.00E+00
Idaho	Twin Falls County	16083	U	4.46E-05	4.76E-05	4.34E-04	4.48E-03	6.04E-03	9.63E-03	1.45E-02	2.04E-02	1.02E-05	6.02E-03	2.53E-06	3.72E-07	0.00E+00
Idaho	Valley County	16085	R	7.93E-05	7.93E-05	7.93E-05	5.60E-04	4.18E-04	6.16E-04	6.16E-04	6.16E-04	0.00E+00	4.18E-04	1.14E-07	4.01E-08	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Idaho	Washington County	16087	U	9.86E-05	9.86E-05	9.86E-05	8.34E-04	5.94E-04	8.48E-04	8.48E-04	8.48E-04	9.92E-08	5.93E-04	3.31E-07	1.59E-07	0.00E+00
Illinois	Statewide	N/A	N/A	6.11E-05	1.51E-04	1.20E-03	4.71E-03	9.16E-03	9.61E-03	1.51E-02	2.24E-02	4.28E-03	4.86E-03	2.09E-05	5.50E-06	0.00E+00
Illinois	All Urban Counties	N/A	U	1.17E-04	4.95E-04	1.68E-03	5.71E-03	9.53E-03	9.95E-03	1.53E-02	2.22E-02	4.14E-03	5.35E-03	2.30E-05	5.92E-06	0.00E+00
Illinois	All Rural Counties	N/A	R	1.99E-05	2.74E-05	5.31E-05	1.57E-04	5.95E-03	9.51E-04	1.07E-02	2.76E-02	5.45E-03	4.93E-04	2.09E-06	1.70E-06	0.00E+00
Illinois	Adams County	17001	U	2.86E-03	5.26E-03	2.95E-02	5.27E-02	7.05E-02	9.65E-02	1.84E-01	2.42E-01	4.22E-04	7.01E-02	3.01E-06	2.19E-06	0.00E+00
Illinois	Alexander County	17003	R	9.99E-03	9.99E-03	1.07E-02	2.40E-02	2.50E-02	3.94E-02	4.21E-02	4.21E-02	2.50E-02	3.20E-05	2.16E-06	1.29E-05	0.00E+00
Illinois	Bond County	17005	R	2.60E-05	2.60E-05	3.20E-05	4.15E-05	3.85E-05	4.51E-05	4.53E-05	4.53E-05	2.72E-05	8.13E-06	2.62E-06	5.89E-07	0.00E+00
Illinois	Boone County	17007	U	6.76E-04	6.76E-04	8.45E-04	8.65E-04	9.15E-04	1.05E-03	1.19E-03	1.19E-03	2.32E-04	6.75E-04	7.55E-06	1.09E-06	0.00E+00
Illinois	Brown County	17009	R	3.99E-05	3.99E-05	3.99E-05	4.74E-05	4.74E-05	5.49E-05	5.49E-05	5.49E-05	4.77E-06	4.01E-05	1.46E-06	1.10E-06	0.00E+00
Illinois	Bureau County	17011	R	3.70E-05	2.71E-04	5.25E-04	6.56E-04	7.86E-04	1.04E-03	1.54E-03	1.70E-03	2.36E-05	7.58E-04	2.66E-06	1.85E-06	0.00E+00
Illinois	Calhoun County	17013	R	7.68E-05	7.68E-05	7.68E-05	1.89E-04	1.89E-04	3.01E-04	3.01E-04	3.01E-04	1.61E-04	2.30E-05	1.86E-06	3.69E-06	0.00E+00
Illinois	Carroll County	17015	R	4.28E-04	4.28E-04	5.06E-04	6.75E-04	9.89E-04	1.38E-03	2.27E-03	2.27E-03	3.32E-05	9.54E-04	1.03E-06	1.47E-06	0.00E+00
Illinois	Cass County	17017	R	1.74E-05	1.74E-05	2.27E-05	4.22E-05	4.77E-05	7.36E-05	8.23E-05	8.23E-05	1.65E-05	2.51E-05	1.74E-06	4.25E-06	0.00E+00
Illinois	Champaign County	17019	U	1.57E-04	2.14E-04	2.84E-04	4.46E-04	6.16E-04	6.50E-04	1.12E-03	1.65E-03	2.25E-05	5.87E-04	5.28E-06	1.04E-06	0.00E+00
Illinois	Christian County	17021	U	4.92E-05	5.19E-05	6.50E-05	1.86E-04	2.59E-04	2.45E-04	7.24E-04	1.19E-03	2.38E-04	1.80E-05	2.63E-06	5.68E-07	0.00E+00
Illinois	Clark County	17023	R	1.32E-04	1.32E-04	1.47E-04	1.99E-04	1.92E-04	2.38E-04	2.38E-04	2.38E-04	1.09E-04	8.14E-05	1.84E-06	5.08E-07	0.00E+00
Illinois	Clay County	17025	R	2.58E-05	2.58E-05	2.79E-05	3.70E-05	3.89E-05	5.00E-05	5.59E-05	5.59E-05	2.06E-05	1.66E-05	1.09E-06	6.48E-07	0.00E+00
Illinois	Clinton County	17027	U	2.60E-05	2.60E-05	2.67E-05	3.05E-05	2.43E-04	5.34E-04	8.10E-04	8.10E-04	1.96E-04	4.38E-05	2.69E-06	6.92E-07	0.00E+00
Illinois	Coles County	17029	U	2.26E-04	2.34E-04	2.65E-04	5.95E-04	2.71E-03	1.69E-03	3.39E-03	2.24E-02	1.10E-06	2.71E-03	4.00E-06	8.00E-07	0.00E+00
Illinois	Cook County	17031	U	2.27E-03	3.94E-03	6.85E-03	8.58E-03	1.15E-02	1.20E-02	1.58E-02	1.99E-02	3.43E-03	8.05E-03	3.63E-05	9.51E-06	0.00E+00
Illinois	Crawford County	17033	R	3.22E-04	3.22E-04	4.50E-04	8.89E-04	8.69E-04	1.05E-03	1.62E-03	1.62E-03	4.64E-04	4.02E-04	2.19E-06	4.95E-07	0.00E+00
Illinois	Cumberland County	17035	R	8.71E-05	8.71E-05	8.71E-05	1.34E-04	1.22E-04	1.45E-04	1.45E-04	1.45E-04	4.36E-05	7.59E-05	1.82E-06	5.06E-07	0.00E+00
Illinois	DeKalb County	17037	U	2.40E-04	2.65E-04	3.54E-04	4.14E-04	4.06E-04	4.60E-04	5.10E-04	5.40E-04	6.83E-05	3.30E-04	6.08E-06	1.34E-06	0.00E+00
Illinois	De Witt County	17039	R	2.07E-04	2.07E-04	2.69E-04	3.81E-04	1.15E-03	2.11E-03	2.79E-03	2.79E-03	2.38E-04	9.10E-04	1.85E-06	5.36E-07	0.00E+00
Illinois	Douglas County	17041	U	2.37E-04	2.37E-04	2.46E-04	3.21E-04	3.09E-04	3.30E-04	4.11E-04	4.11E-04	1.96E-05	2.87E-04	1.64E-06	4.30E-07	0.00E+00
Illinois	DuPage County	17043	U	2.01E-03	2.11E-03	2.40E-03	2.81E-03	3.45E-03	4.40E-03	5.45E-03	5.89E-03	1.07E-03	2.36E-03	1.96E-05	4.03E-06	0.00E+00
Illinois	Edgar County	17045	R	9.98E-05	9.98E-05	1.25E-04	1.30E-04	1.34E-04	1.56E-04	1.61E-04	1.61E-04	1.74E-05	1.14E-04	2.31E-06	5.99E-07	0.00E+00
Illinois	Edwards County	17047	R	6.11E-05	6.11E-05	6.11E-05	7.37E-05	7.52E-05	9.07E-05	9.07E-05	9.07E-05	3.94E-05	3.38E-05	1.43E-06	5.41E-07	0.00E+00
Illinois	Effingham County	17049	R	1.24E-05	1.24E-05	1.58E-05	2.58E-05	3.10E-05	4.78E-05	5.69E-05	5.69E-05	1.11E-05	1.50E-05	4.15E-06	7.00E-07	0.00E+00
Illinois	Fayette County	17051	R	1.17E-05	1.17E-05	1.36E-05	1.46E-05	1.78E-05	2.33E-05	2.70E-05	2.70E-05	1.15E-05	4.52E-06	1.36E-06	4.59E-07	0.00E+00
Illinois	Ford County	17053	U	3.09E-05	3.09E-05	3.57E-05	3.61E-05	2.60E-04	5.51E-04	6.46E-04	6.46E-04	6.33E-06	2.52E-04	9.05E-07	5.47E-07	0.00E+00
Illinois	Franklin County	17055	R	2.37E-05	1.07E-04	1.47E-04	1.84E-04	1.73E-04	2.18E-04	2.30E-04	2.55E-04	1.43E-04	2.57E-05	3.65E-06	7.11E-07	0.00E+00
Illinois	Fulton County	17057	R	6.74E-05	7.54E-05	4.25E-03	9.98E-03	1.10E-02	1.83E-02	2.02E-02	2.21E-02	1.09E-02	6.83E-05	2.81E-06	8.87E-07	0.00E+00
Illinois	Gallatin County	17059	R	1.20E-03	1.20E-03	1.20E-03	1.48E-03	1.48E-03	1.77E-03	1.77E-03	1.77E-03	1.57E-05	1.46E-03	6.81E-07	4.28E-06	0.00E+00
Illinois	Greene County	17061	R	1.53E-05	1.53E-05	2.68E-05	2.85E-05	2.70E-05	3.07E-05	3.35E-05	3.35E-05	1.46E-05	9.67E-06	9.85E-07	1.72E-06	0.00E+00
Illinois	Grundy County	17063	U	4.09E-04	4.09E-04	7.64E-04	8.87E-04	1.43E-03	1.07E-03	6.09E-03	6.09E-03	1.26E-03	1.60E-04	3.08E-06	2.08E-06	0.00E+00
Illinois	Hamilton County	17065	R	4.16E-05	4.16E-05	4.82E-05	6.26E-05	7.34E-05	9.86E-05	1.27E-04	1.27E-04	1.68E-08	7.20E-05	9.22E-07	4.30E-07	0.00E+00
Illinois	Hancock County	17067	R	6.28E-04	6.28E-04	7.85E-04	1.21E-03	3.01E-03	5.44E-03	8.91E-03	8.91E-03	5.70E-05	2.95E-03	7.23E-07	1.60E-06	0.00E+00
Illinois	Hardin County	17069	R	3.66E-03	3.66E-03	3.66E-03	1.36E-02	1.50E-02	2.76E-02	2.76E-02	2.76E-02	2.27E-06	1.50E-02	7.03E-07	7.87E-06	0.00E+00
Illinois	Henderson County	17071	R	1.95E-04	1.95E-04	1.95E-04	2.05E-04	3.31E-04	5.93E-04	5.93E-04	5.93E-04	1.66E-04	1.62E-04	5.33E-07	2.01E-06	0.00E+00
Illinois	Henry County	17073	U	1.74E-05	2.40E-05	3.44E-05	2.43E-04	4.20E-04	6.66E-04	1.16E-03	1.44E-03	2.30E-04	1.86E-04	2.73E-06	8.47E-07	0.00E+00
Illinois	Iroquois County	17075	R	1.05E-04	1.05E-04	1.73E-04	3.61E-04	4.56E-04	5.15E-04	1.47E-03	1.47E-03	5.29E-06	4.50E-04	9.85E-07	4.56E-07	0.00E+00
Illinois	Jackson County	17077	U	2.03E-05	6.33E-05	7.12E-05	9.80E-05	9.71E-05	1.15E-04	1.44E-04	1.81E-04	6.80E-05	2.15E-05	4.91E-06	2.72E-06	0.00E+00
Illinois	Jasper County	17079	R	1.29E-04	1.29E-04	1.29E-04	1.48E-04	1.48E-04	1.68E-04	1.68E-04	1.68E-04	9.59E-05	5.01E-05	1.37E-06	7.87E-07	0.00E+00
Illinois	Jefferson County	17081	R	3.70E-05	4.64E-05	6.66E-05	1.74E-04	5.82E-04	7.04E-04	1.31E-03	3.12E-03	4.10E-07	5.75E-04	5.79E-06	6.37E-07	0.00E+00
Illinois	Jersey County	17083	U	8.47E-04	8.47E-04	2.14E-03	3.22E-03	3.09E-03	3.89E-03	5.34E-03	5.34E-03	2.71E-03	3.68E-04	4.19E-06	3.98E-06	0.00E+00
Illinois	Jo Daviess County	17085	R	2.58E-05	2.58E-05	6.72E-05	6.98E-05	4.32E-04	1.97E-04	1.80E-03	1.80E-03	4.07E-05	3.89E-04	9.70E-07	1.17E-06	0.00E+00
Illinois	Johnson County	17087	R	5.21E-02	5.21E-02	5.21E-02	8.24E-02	9.78E-02	1.59E-01	1.59E-01	1.59E-01	9.76E-02	1.76E-04	2.42E-06	1.67E-06	0.00E+00
Illinois	Kane County	17089	U	8.11E-04	1.02E-03	1.33E-03	1.52E-03	2.85E-03	2.21E-03	3.73E-03	6.07E-03	2.72E-04	2.57E-03	4.78E-06	2.71E-06	0.00E+00
Illinois	Kankakee County	17091	U	3.07E-04	3.13E-04	6.10E-04	8.79E-04	1.46E-03	1.36E-03	2.88E-03	4.71E-03	1.75E-04	1.28E-03	5.33E-06	9.14E-07	0.00E+00
Illinois	Kendall County	17093	U	5.81E-04	5.81E-04	7.17E-04	</									

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

State	County	FIPS	Urban or Rural	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
Illinois	Lawrence County	17101	R	2.22E-04	2.22E-04	4.08E-04	4.15E-04	3.89E-04	4.23E-04	4.78E-04	4.78E-04	2.14E-04	1.74E-04	1.23E-06	6.21E-07	0.00E+00
Illinois	Lee County	17103	R	6.73E-04	6.73E-04	1.05E-03	1.30E-03	1.43E-03	1.60E-03	2.91E-03	2.91E-03	4.74E-05	1.38E-03	2.49E-06	6.68E-07	0.00E+00
Illinois	Livingston County	17105	U	6.38E-06	7.16E-06	1.40E-05	2.47E-04	2.44E-04	3.37E-04	5.92E-04	7.78E-04	3.34E-05	2.07E-04	2.06E-06	6.48E-07	0.00E+00
Illinois	Logan County	17107	R	1.34E-04	1.34E-04	2.39E-04	8.96E-04	2.48E-03	4.81E-03	7.77E-03	7.77E-03	1.00E-03	1.47E-03	3.62E-06	6.73E-07	0.00E+00
Illinois	McDonough County	17109	U	1.56E-04	1.62E-04	2.08E-04	5.33E-04	1.55E-03	8.17E-04	6.00E-03	1.07E-02	2.83E-05	1.52E-03	2.72E-06	7.00E-07	0.00E+00
Illinois	McHenry County	17111	U	6.63E-04	6.62E-04	8.89E-04	1.06E-03	1.32E-03	1.36E-03	2.28E-03	2.47E-03	6.11E-05	1.26E-03	3.50E-06	1.32E-06	0.00E+00
Illinois	McLean County	17113	U	1.87E-05	3.13E-05	5.83E-05	8.14E-05	1.13E-04	1.15E-04	1.47E-04	4.51E-04	2.39E-05	7.80E-05	1.01E-05	1.29E-06	0.00E+00
Illinois	Macon County	17115	U	3.81E-04	6.72E-04	1.32E-03	2.52E-03	3.82E-03	4.45E-03	9.97E-03	1.59E-02	3.48E-03	3.38E-04	2.95E-06	8.70E-07	0.00E+00
Illinois	Macoupin County	17117	R	2.55E-05	4.16E-05	5.40E-05	1.52E-04	6.21E-04	9.50E-04	2.38E-03	2.52E-03	5.59E-04	5.85E-05	2.83E-06	6.78E-07	0.00E+00
Illinois	Madison County	17119	U	1.18E-03	2.14E-03	3.62E-03	6.83E-03	4.43E-02	1.35E-02	8.34E-02	2.40E-01	4.27E-02	1.54E-03	1.48E-05	4.27E-06	0.00E+00
Illinois	Marion County	17121	R	1.28E-05	2.11E-05	2.85E-05	3.40E-05	3.58E-05	4.15E-05	5.36E-05	6.25E-05	1.05E-06	3.15E-05	2.40E-06	8.03E-07	0.00E+00
Illinois	Marshall County	17123	R	5.25E-04	5.25E-04	5.63E-04	6.77E-04	7.82E-04	9.63E-04	1.18E-03	1.18E-03	2.66E-04	5.10E-04	2.22E-06	3.36E-06	0.00E+00
Illinois	Mason County	17125	R	2.29E-05	2.29E-05	1.24E-02	1.27E-02	1.30E-02	1.49E-02	2.51E-02	2.51E-02	1.29E-02	6.60E-05	1.37E-06	2.05E-06	0.00E+00
Illinois	Massac County	17127	R	4.09E-02	4.09E-02	4.66E-02	5.83E-02	1.81E-01	3.16E-01	5.68E-01	5.68E-01	1.81E-01	8.04E-04	3.40E-06	1.03E-05	0.00E+00
Illinois	Menard County	17129	R	2.69E-05	2.69E-05	2.69E-05	2.77E-05	2.79E-05	2.92E-05	2.92E-05	2.92E-05	4.82E-06	2.12E-05	1.30E-06	5.96E-07	0.00E+00
Illinois	Mercer County	17131	R	3.09E-04	3.09E-04	3.67E-04	4.94E-04	4.81E-04	5.95E-04	6.25E-04	6.25E-04	2.28E-04	2.50E-04	1.33E-06	1.37E-06	0.00E+00
Illinois	Monroe County	17133	U	1.12E-03	1.12E-03	1.12E-03	1.52E-03	1.62E-03	2.23E-03	2.23E-03	2.23E-03	1.23E-03	3.81E-04	6.10E-06	5.58E-06	0.00E+00
Illinois	Montgomery County	17135	R	5.03E-05	5.03E-05	5.44E-05	6.79E-05	6.89E-05	7.15E-05	1.13E-04	1.13E-04	6.15E-05	4.89E-06	1.85E-06	5.76E-07	0.00E+00
Illinois	Morgan County	17137	U	1.52E-05	1.78E-05	2.37E-05	2.71E-05	3.60E-05	3.03E-05	8.01E-05	1.15E-04	1.94E-05	1.18E-05	3.55E-06	1.26E-06	0.00E+00
Illinois	Moultrie County	17139	R	1.55E-04	1.55E-04	1.56E-04	1.78E-04	1.91E-04	2.26E-04	2.52E-04	2.52E-04	1.41E-04	4.86E-05	1.38E-06	4.44E-07	0.00E+00
Illinois	Ogle County	17141	U	4.51E-04	5.29E-04	5.85E-04	1.02E-03	4.87E-03	2.53E-03	1.74E-02	2.64E-02	3.18E-04	4.55E-03	3.05E-06	6.97E-07	0.00E+00
Illinois	Peoria County	17143	U	1.12E-02	1.45E-02	1.94E-02	2.72E-02	4.01E-02	4.16E-02	6.25E-02	7.38E-02	3.91E-02	9.80E-04	1.05E-05	3.37E-06	0.00E+00
Illinois	Perry County	17145	R	1.65E-05	1.65E-05	2.62E-05	2.92E-05	3.76E-05	3.38E-05	9.05E-05	9.05E-05	2.21E-05	1.23E-05	2.05E-06	1.03E-06	0.00E+00
Illinois	Piatt County	17147	R	1.80E-04	1.80E-04	1.99E-04	2.38E-04	2.83E-04	3.67E-04	4.77E-04	4.77E-04	2.29E-04	5.20E-05	1.40E-06	4.02E-07	0.00E+00
Illinois	Pike County	17149	R	6.34E-05	6.34E-05	6.60E-05	6.83E-05	4.03E-04	9.86E-05	1.72E-03	1.72E-03	1.69E-05	3.83E-04	9.32E-07	2.25E-06	0.00E+00
Illinois	Pope County	17151	R	5.46E-02	5.46E-02	5.46E-02	5.55E-02	5.55E-02	5.63E-02	5.63E-02	5.63E-02	5.40E-02	1.49E-03	1.02E-06	5.03E-06	0.00E+00
Illinois	Pulaski County	17153	R	1.81E-02	1.81E-02	1.81E-02	2.71E-02	2.71E-02	3.61E-02	3.61E-02	3.61E-02	2.71E-02	1.45E-05	2.01E-06	6.67E-06	0.00E+00
Illinois	Putnam County	17155	R	8.43E-04	8.43E-04	8.43E-04	1.15E-03	1.15E-03	1.45E-03	1.45E-03	1.45E-03	3.06E-05	1.11E-03	1.59E-06	2.86E-06	0.00E+00
Illinois	Randolph County	17157	R	3.72E-05	3.72E-05	6.25E-05	6.55E-05	7.73E-05	7.44E-05	1.46E-04	1.46E-04	4.49E-05	2.51E-05	1.57E-06	5.81E-06	0.00E+00
Illinois	Richland County	17159	U	1.16E-04	1.16E-04	1.17E-04	1.34E-04	1.34E-04	1.48E-04	1.55E-04	1.55E-04	4.50E-05	8.56E-05	2.43E-06	7.45E-07	0.00E+00
Illinois	Rock Island County	17161	U	1.21E-03	1.47E-03	2.70E-03	4.03E-03	7.10E-03	6.46E-03	1.08E-02	1.59E-02	5.41E-03	1.68E-03	1.18E-05	3.16E-06	0.00E+00
Illinois	St. Clair County	17163	U	1.09E-03	1.23E-03	1.92E-03	3.48E-03	4.60E-03	6.22E-03	1.08E-02	1.21E-02	3.34E-03	1.24E-03	1.85E-05	3.98E-06	0.00E+00
Illinois	Saline County	17165	U	6.45E-05	6.45E-05	8.57E-04	9.96E-04	9.14E-04	1.11E-03	1.24E-03	1.24E-03	4.24E-05	8.67E-04	3.23E-06	1.19E-06	0.00E+00
Illinois	Sangamon County	17167	U	3.61E-05	4.26E-05	5.31E-05	6.48E-05	7.71E-05	7.76E-05	1.05E-04	1.68E-04	4.40E-05	2.56E-05	6.49E-06	9.48E-07	0.00E+00
Illinois	Schuyler County	17169	R	9.62E-05	9.62E-05	9.62E-05	9.77E-05	9.91E-05	1.03E-04	1.03E-04	1.03E-04	1.73E-05	7.91E-05	6.45E-07	1.99E-06	0.00E+00
Illinois	Scott County	17171	R	5.25E-05	5.25E-05	5.25E-05	5.35E-05	5.35E-05	5.45E-05	5.45E-05	5.45E-05	1.88E-05	3.12E-05	9.64E-07	2.61E-06	0.00E+00
Illinois	Shelby County	17173	R	1.43E-05	1.43E-05	1.58E-05	3.90E-05	6.61E-05	5.42E-05	2.34E-04	2.34E-04	4.47E-05	2.01E-05	9.08E-07	4.26E-07	0.00E+00
Illinois	Stark County	17175	R	4.68E-05	4.68E-05	4.68E-05	3.88E-04	3.88E-04	7.29E-04	7.29E-04	7.29E-04	3.20E-04	6.58E-05	1.50E-06	9.11E-07	0.00E+00
Illinois	Stephenson County	17177	U	8.29E-06	3.39E-05	2.57E-04	3.66E-04	3.37E-04	4.34E-04	6.15E-04	7.01E-04	6.41E-05	2.68E-04	4.14E-06	8.26E-07	0.00E+00
Illinois	Tazewell County	17179	U	9.16E-03	9.60E-03	1.39E-02	1.87E-02	3.07E-02	5.04E-02	7.23E-02	7.84E-02	3.04E-02	2.29E-04	7.50E-06	3.22E-06	0.00E+00
Illinois	Union County	17181	R	7.04E-05	7.04E-05	2.63E-02	2.75E-02	2.35E-02	3.14E-02	3.20E-02	3.20E-02	2.35E-02	1.54E-05	2.10E-06	5.47E-06	0.00E+00
Illinois	Vermilion County	17183	U	1.06E-03	1.08E-03	1.50E-03	2.10E-03	4.80E-03	2.71E-03	4.32E-03	1.22E-02	9.02E-05	4.70E-03	3.06E-06	5.78E-07	0.00E+00
Illinois	Wabash County	17185	U	1.20E-04	1.20E-04	1.21E-04	1.33E-04	1.40E-04	1.58E-04	1.72E-04	1.72E-04	7.85E-05	5.78E-05	2.46E-06	7.01E-07	0.00E+00
Illinois	Warren County	17187	U	1.51E-04	1.51E-04	1.63E-04	1.93E-04	2.19E-04	2.20E-04	3.68E-04	3.68E-04	1.72E-04	4.42E-05	1.41E-06	9.49E-07	0.00E+00
Illinois	Washington County	17189	R	1.81E-05	1.81E-05	2.78E-05	3.76E-05	3.46E-05	4.15E-05	4.52E-05	4.52E-05	1.27E-05	1.97E-05	1.65E-06	6.26E-07	0.00E+00
Illinois	Wayne County	17191	R	3.92E-05	3.92E-05	5.19E-05	6.81E-05	8.76E-05	1.29E-04	1.50E-04	1.50E-04	3.06E-06	8.28E-05	1.33E-06	4.86E-07	0.00E+00
Illinois	White County	17193	R	3.31E-05	3.31E-05	4.77E-05	7.44E-05	6.47E-05	7.51E-05	9.31E-05	9.31E-05	3.44E-05	2.78E-05	1.58E-06	9.03E-07	0.00E+00
Illinois	Whiteside County	17195	U	5.57E-04	7.17E-04	9.90E-04	4.91E-03	9.63E-03	1.62E-02	2.43E-02	4.03E-02	9.50E-05	9.53E-03	3.70E-06	1.56E-06	0.00E+00
Illinois	Will County	17197	U	1.28E-03	1.80E-03	2.37E-03	3.18E-03	3.66E-03	3.63E-03	5.69E-03	6.58E-03	1.21E-03	2.43E-03	8.49E-06	7.22E-06	0.00E+00
Illinois	Williamson County	17199	U	1.11E-04	1.20E-04	1.98E-04	2.40E-04	2.87E-03	3.52E-04	5.58E-04	3.68E-02	2.85E-03	1.18E-05	5.05E-06	8.79E-07	0.00E+00
Illinois	Winnebago County	17201	U	1.30E-03	1.46E-03	1.95E-03	2.76E-03	6.08E-03	4.62E-03	7.98E-03	1.02E-02	1.02E-03	5.05E-03	1.23E-05	1.57E-06	0.00E+00
Illinois	Woodford County	17203	U	3.23E-05	3.23E-05	5.90E-04	5.62E-03	4.56E-03	7.05E-03	1.16E-02	1.16E-02	4.40E-03	1.55E-04	2.84E-06	1.68E-06	0.00E+00
Indiana	Statewide	N/A	N/A	3.58E-03	5.32E-04	1.05E-03	2.35E-03	8.01E-03	5.79E-03	1.42E-02	2.64E-02	5.24E-03	2.75E-03	1.01E-05	4.37E-06	0.00E+00
Indiana	All Urban Counties	N/A	U	4.65E-04	6.97E-04	1.16E-03	2.71E-03	8.08E-03	6.11E-03	1.58E-02	2.67E-02	5.28E-03	2.78E-03	1.22E-05	5.42E-06	0.00E+00

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State	County	FIPS	Urban or Rural	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
Indiana	All Rural Counties	N/A	R	1.81E-04	2.71E-04	6.39E-04	1.54E-03	7.79E-03	4.17E-03	1.02E-02	2.09E-02	5.12E-03	2.67E-03	3.77E-06	1.16E-06	0.00E+00
Indiana	Adams County	18001	U	9.64E-04	9.64E-04	1.36E-03	1.72E-03	2.77E-03	5.87E-03	6.12E-03	6.12E-03	5.74E-05	2.71E-03	4.64E-06	7.99E-07	0.00E+00
Indiana	Allen County	18003	U	2.06E-03	2.50E-03	3.37E-03	4.21E-03	6.58E-03	5.83E-03	8.85E-03	1.67E-02	8.15E-04	5.75E-03	9.57E-06	1.73E-06	0.00E+00
Indiana	Bartholomew County	18005	U	6.33E-04	6.67E-04	8.86E-04	1.45E-03	2.44E-03	3.92E-03	7.12E-03	7.65E-03	2.70E-04	2.17E-03	4.45E-06	8.81E-07	0.00E+00
Indiana	Benton County	18007	R	1.26E-03	1.26E-03	1.26E-03	1.84E-03	1.77E-03	2.22E-03	2.22E-03	2.22E-03	4.38E-04	1.33E-03	1.14E-06	5.28E-07	0.00E+00
Indiana	Blackford County	18009	R	6.17E-04	6.17E-04	7.88E-04	1.01E-03	9.85E-04	1.18E-03	1.30E-03	1.30E-03	7.21E-05	9.08E-04	3.89E-06	7.11E-07	0.00E+00
Indiana	Boone County	18011	U	6.55E-04	6.55E-04	7.35E-04	1.02E-03	9.81E-04	1.08E-03	1.57E-03	1.57E-03	6.96E-04	2.78E-04	5.66E-06	1.17E-06	0.00E+00
Indiana	Brown County	18013	R	4.71E-04	4.71E-04	5.04E-04	5.88E-04	7.30E-04	9.56E-04	1.27E-03	1.27E-03	5.38E-04	1.88E-04	2.99E-06	2.95E-07	0.00E+00
Indiana	Carroll County	18015	R	1.41E-03	1.41E-03	1.45E-03	2.00E-03	2.00E-03	2.25E-03	2.72E-03	2.72E-03	1.62E-03	3.73E-04	2.94E-06	6.58E-07	0.00E+00
Indiana	Cass County	18017	R	4.37E-04	5.52E-04	6.08E-04	1.13E-03	1.63E-03	2.81E-03	2.96E-03	3.49E-03	1.32E-03	3.05E-04	3.62E-06	1.32E-06	0.00E+00
Indiana	Clark County	18019	U	6.69E-04	1.10E-03	2.34E-03	6.73E-03	4.54E-02	1.70E-02	2.92E-02	4.15E-02	4.29E-02	2.43E-03	1.78E-05	9.16E-06	0.00E+00
Indiana	Clay County	18021	R	6.28E-05	6.28E-05	6.92E-05	8.88E-05	2.82E-04	1.07E-04	1.28E-03	1.28E-03	2.25E-04	5.31E-05	3.81E-06	5.41E-07	0.00E+00
Indiana	Clinton County	18023	R	8.28E-04	8.28E-04	8.77E-04	9.60E-04	1.50E-03	1.38E-03	4.73E-03	4.73E-03	1.27E-03	2.21E-04	5.00E-06	8.68E-07	0.00E+00
Indiana	Crawford County	18025	R	1.96E-04	1.96E-04	1.96E-04	6.03E-04	6.56E-04	1.17E-03	1.17E-03	1.17E-03	2.95E-04	3.52E-04	1.99E-06	7.22E-06	0.00E+00
Indiana	Daviess County	18027	R	1.71E-03	1.71E-03	1.84E-03	2.14E-03	2.44E-03	2.55E-03	4.65E-03	4.65E-03	1.58E-03	8.60E-04	2.99E-06	4.67E-07	0.00E+00
Indiana	Dearborn County	18029	U	6.00E-04	6.00E-04	6.97E-04	1.25E-03	1.66E-03	1.86E-03	5.63E-03	5.63E-03	3.35E-04	1.30E-03	6.20E-06	1.33E-05	0.00E+00
Indiana	Decatur County	18031	R	1.94E-04	1.94E-04	2.42E-04	2.63E-04	2.81E-04	3.41E-04	3.85E-04	3.85E-04	3.85E-05	2.38E-04	4.16E-06	6.34E-07	0.00E+00
Indiana	De Kalb County	18033	U	9.34E-03	9.34E-03	9.80E-03	1.18E-02	4.77E-02	3.27E-02	2.64E-01	2.64E-01	1.11E-03	4.66E-02	4.99E-06	9.83E-07	0.00E+00
Indiana	Delaware County	18035	U	9.18E-04	9.80E-04	1.05E-03	1.13E-03	1.24E-03	1.22E-03	1.37E-03	1.64E-03	4.53E-04	7.75E-04	4.78E-06	2.39E-06	0.00E+00
Indiana	Dubois County	18037	R	3.27E-03	3.27E-03	4.11E-03	1.20E-02	7.40E-02	5.14E-02	4.18E-01	4.18E-01	2.23E-03	7.18E-02	3.51E-06	1.64E-06	0.00E+00
Indiana	Elkhart County	18039	R	7.91E-04	1.78E-03	2.76E-03	4.19E-03	5.49E-03	5.90E-03	1.03E-02	1.81E-02	3.89E-03	1.58E-03	1.05E-05	1.63E-06	0.00E+00
Indiana	Fayette County	18041	U	3.34E-04	3.34E-04	3.44E-04	3.94E-04	6.42E-04	6.47E-04	1.93E-03	1.93E-03	7.31E-05	5.63E-04	5.66E-06	5.28E-07	0.00E+00
Indiana	Floyd County	18043	U	1.24E-03	1.36E-03	2.44E-03	5.08E-03	4.28E-03	5.85E-03	6.19E-03	7.23E-03	2.77E-03	1.48E-03	1.86E-05	8.71E-06	0.00E+00
Indiana	Fountain County	18045	R	6.11E-04	6.11E-04	3.32E-03	3.47E-03	3.63E-03	5.23E-03	5.53E-03	5.53E-03	8.02E-04	2.83E-03	2.07E-06	7.31E-07	0.00E+00
Indiana	Franklin County	18047	R	3.77E-04	3.77E-04	4.10E-04	4.76E-04	5.94E-04	6.05E-04	1.10E-03	1.10E-03	1.95E-04	3.96E-04	2.69E-06	7.73E-07	0.00E+00
Indiana	Fulton County	18049	R	1.52E-03	1.52E-03	3.98E-03	5.10E-03	5.18E-03	6.37E-03	9.05E-03	9.05E-03	3.67E-03	1.51E-03	2.15E-06	4.94E-07	0.00E+00
Indiana	Gibson County	18051	R	2.60E-04	2.60E-04	4.97E-04	6.35E-04	7.76E-04	6.57E-04	1.83E-03	1.83E-03	3.57E-04	4.15E-04	3.24E-06	1.23E-06	0.00E+00
Indiana	Grant County	18053	U	5.07E-04	7.20E-04	7.29E-04	7.91E-04	7.92E-04	8.64E-04	9.06E-04	9.70E-04	4.40E-04	3.45E-04	5.49E-06	7.11E-07	0.00E+00
Indiana	Greene County	18055	R	1.21E-03	1.21E-03	1.36E-03	1.87E-03	2.23E-03	2.78E-03	4.61E-03	4.61E-03	2.17E-03	5.90E-05	2.91E-06	4.12E-07	0.00E+00
Indiana	Hamilton County	18057	U	3.58E-04	3.62E-04	4.38E-04	5.12E-04	5.34E-04	6.20E-04	6.75E-04	8.13E-04	3.29E-04	1.94E-04	8.94E-06	1.61E-06	0.00E+00
Indiana	Hancock County	18059	U	8.46E-04	8.54E-04	9.28E-04	9.68E-04	9.71E-04	1.00E-03	1.09E-03	1.18E-03	7.92E-04	1.70E-04	8.20E-06	1.16E-06	0.00E+00
Indiana	Harrison County	18061	U	2.75E-04	2.75E-04	5.93E-04	7.07E-04	8.49E-04	8.93E-04	1.92E-03	1.92E-03	6.42E-04	1.98E-04	4.81E-06	4.37E-06	0.00E+00
Indiana	Hendricks County	18063	U	4.76E-04	4.84E-04	6.82E-04	1.02E-03	9.88E-04	1.14E-03	1.26E-03	1.79E-03	6.73E-04	3.06E-04	7.25E-06	1.10E-06	0.00E+00
Indiana	Henry County	18065	R	2.77E-04	4.46E-04	6.53E-04	1.01E-03	3.23E-03	2.34E-03	1.22E-02	1.50E-02	2.50E-04	2.98E-03	4.30E-06	7.66E-07	0.00E+00
Indiana	Howard County	18067	U	6.77E-04	8.24E-04	1.37E-03	3.20E-03	6.84E-03	6.35E-03	1.54E-02	3.71E-02	6.65E-03	1.73E-04	8.20E-06	1.11E-06	0.00E+00
Indiana	Huntington County	18069	U	7.87E-04	7.87E-04	9.10E-04	3.02E-03	2.16E-03	3.12E-03	3.32E-03	3.32E-03	1.65E-03	5.04E-04	5.16E-06	9.42E-07	0.00E+00
Indiana	Jackson County	18071	U	1.34E-04	1.34E-04	2.08E-04	3.78E-04	3.78E-04	4.44E-04	8.52E-04	8.52E-04	5.72E-05	3.14E-04	5.75E-06	9.03E-07	0.00E+00
Indiana	Jasper County	18073	R	2.21E-04	2.21E-04	3.50E-04	8.00E-04	6.92E-04	9.38E-04	1.24E-03	1.24E-03	4.66E-04	2.21E-04	4.52E-06	5.99E-07	0.00E+00
Indiana	Jay County	18075	R	7.36E-04	7.36E-04	7.38E-04	1.52E-03	6.57E-03	1.25E-02	2.79E-02	2.79E-02	5.29E-05	6.52E-03	2.55E-06	6.28E-07	0.00E+00
Indiana	Jefferson County	18077	U	3.79E-04	3.79E-04	4.37E-04	1.02E-03	1.81E-03	1.67E-03	6.76E-03	6.76E-03	1.40E-04	1.63E-03	3.61E-06	4.06E-05	0.00E+00
Indiana	Jennings County	18079	R	3.17E-04	3.17E-04	3.30E-04	3.50E-04	4.15E-04	4.34E-04	6.47E-04	6.47E-04	4.88E-05	3.62E-04	3.65E-06	8.38E-07	0.00E+00
Indiana	Johnson County	18081	U	9.67E-04	1.21E-03	1.45E-03	1.68E-03	2.33E-03	2.65E-03	5.51E-03	5.79E-03	1.84E-03	4.80E-04	1.05E-05	9.80E-07	0.00E+00
Indiana	Knox County	18083	U	3.34E-04	4.03E-04	8.04E-04	1.05E-03	4.09E-03	1.99E-03	1.65E-02	3.03E-02	4.06E-04	3.68E-03	4.10E-06	1.07E-06	0.00E+00
Indiana	Kosciusko County	18085	R	7.17E-03	7.60E-03	8.63E-03	2.09E-02	5.82E-02	5.00E-02	1.47E-01	4.52E-01	5.73E-02	9.57E-04	3.52E-06	6.42E-07	0.00E+00
Indiana	Lagrange County	18087	R	4.12E-04	4.12E-04	9.32E-04	1.31E-03	1.79E-03	3.10E-03	4.19E-03	4.19E-03	1.00E-03	7.81E-04	3.33E-06	5.58E-07	0.00E+00
Indiana	Lake County	18089	U	2.97E-03	3.97E-03	7.22E-03	1.35E-02	2.13E-02	2.55E-02	4.06E-02	5.15E-02	1.71E-02	4.17E-03	2.22E-05	2.42E-05	0.00E+00
Indiana	La Porte County	18091	U	3.04E-03	3.49E-03	4.78E-03	7.29E-03	1.96E-02	1.25E-02	7.39E-02	8.85E-02	9.95E-03	9.65E-03	7.73E-06	3.68E-06	0.00E+00
Indiana	Lawrence County	18093	R	1.24E-03	1.24E-03	1.25E-03	2.34E-03	2.98E-03	3.41E-03	6.61E-03	6.98E-03	1.43E-03	1.55E-03	5.46E-06	5.19E-07	0.00E+00
Indiana	Madison County	18095	U	8.93E-04	9.73E-04	1.16E-03	2.10E-03	1.01E-02	5.30E-03	1.09E-02	1.86E-02	9.67E-03	4.65E-04	7.91E-06	9.91E-07	0.00E+00
Indiana	Marion County	18097	U	8.97E-04	1.06E-03	1.61E-03	2.55E-03	4.52E-03	4.45E-03	7.38E-03	1.09E-02	3.47E-03	1.03E-03	1.90E-05	1.86E-06	0.00E+00
Indiana	Marshall County	18099	R	4.87E-03	5.21E-03	5.99E-03	6.77E-03	9.98E-03	8.85E-03	1.03E-02	4.20E-02	5.66E-03	4.31E-03	3.84E-06	6.87E-07	0.00E+00
Indiana	Martin County	18101	R	2.87E-03	2.87E-03</											

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

State	County	FIPS	Urban or Rural	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
Indiana	Montgomery County	18107	R	1.01E-03	1.01E-03	1.68E-03	1.87E-03	4.64E-03	6.71E-03	1.45E-02	1.45E-02	2.00E-03	2.64E-03	4.08E-06	7.57E-07	0.00E+00
Indiana	Morgan County	18109	U	4.09E-04	4.75E-04	6.46E-04	7.47E-04	8.75E-04	1.13E-03	1.38E-03	1.46E-03	7.09E-04	1.59E-04	5.88E-06	8.02E-07	0.00E+00
Indiana	Newton County	18111	R	2.50E-04	2.50E-04	2.83E-04	4.55E-04	4.61E-04	6.39E-04	6.84E-04	6.84E-04	2.28E-04	2.31E-04	1.48E-06	4.43E-07	0.00E+00
Indiana	Noble County	18113	R	6.82E-03	7.91E-03	9.06E-03	9.83E-03	2.90E-02	3.28E-02	9.51E-02	9.54E-02	2.36E-02	5.39E-03	3.81E-06	7.00E-07	0.00E+00
Indiana	Ohio County	18115	U	1.34E-03	1.34E-03	1.34E-03	1.41E-03	1.41E-03	1.48E-03	1.48E-03	1.48E-03	3.21E-04	1.07E-03	4.91E-06	1.51E-05	0.00E+00
Indiana	Orange County	18117	R	5.71E-04	5.71E-04	6.72E-04	8.27E-04	1.10E-03	1.73E-03	1.94E-03	1.94E-03	4.47E-04	6.45E-04	1.75E-06	8.16E-07	0.00E+00
Indiana	Owen County	18119	R	8.81E-05	8.81E-05	1.83E-04	8.94E-04	6.61E-04	1.04E-03	1.10E-03	1.10E-03	5.85E-04	7.38E-05	2.21E-06	2.50E-07	0.00E+00
Indiana	Parke County	18121	R	6.91E-05	6.91E-05	1.65E-04	2.94E-04	2.77E-04	3.89E-04	4.51E-04	4.51E-04	1.67E-04	1.08E-04	1.59E-06	3.93E-07	0.00E+00
Indiana	Perry County	18123	R	1.84E-03	1.84E-03	2.55E-03	2.92E-03	4.09E-03	4.99E-03	8.17E-03	8.17E-03	3.47E-03	6.02E-04	2.79E-06	1.60E-05	0.00E+00
Indiana	Pike County	18125	R	9.75E-04	9.75E-04	1.10E-03	1.84E-03	2.16E-03	3.22E-03	3.98E-03	3.98E-03	2.45E-04	1.91E-03	2.07E-06	5.94E-07	0.00E+00
Indiana	Porter County	18127	U	2.65E-03	4.68E-03	6.49E-03	8.00E-03	8.84E-03	1.08E-02	1.45E-02	1.58E-02	7.54E-03	1.28E-03	1.05E-05	1.05E-05	0.00E+00
Indiana	Posey County	18129	U	1.74E-04	1.74E-04	3.38E-04	3.78E-04	4.31E-04	6.03E-04	7.98E-04	7.98E-04	2.96E-04	1.15E-04	3.49E-06	1.66E-05	0.00E+00
Indiana	Pulaski County	18131	R	8.38E-04	8.38E-04	9.98E-04	1.17E-03	1.13E-03	1.26E-03	1.34E-03	1.34E-03	8.93E-04	2.35E-04	1.42E-06	4.81E-07	0.00E+00
Indiana	Putnam County	18133	R	9.55E-05	9.55E-05	9.88E-05	1.09E-04	1.47E-04	2.12E-04	2.70E-04	2.70E-04	1.06E-04	3.78E-05	2.95E-06	4.46E-07	0.00E+00
Indiana	Randolph County	18135	R	4.20E-04	4.20E-04	4.50E-04	5.41E-04	5.75E-04	6.74E-04	8.48E-04	8.48E-04	1.14E-04	4.59E-04	2.19E-06	4.86E-07	0.00E+00
Indiana	Ripley County	18137	R	4.12E-04	4.12E-04	4.93E-04	5.05E-04	1.11E-03	5.29E-04	4.23E-03	4.23E-03	5.13E-05	1.06E-03	2.52E-06	1.24E-06	0.00E+00
Indiana	Rush County	18139	R	1.15E-04	1.15E-04	1.55E-04	1.81E-04	1.84E-04	1.98E-04	2.71E-04	2.71E-04	7.01E-05	1.11E-04	2.52E-06	5.44E-07	0.00E+00
Indiana	St. Joseph County	18141	U	2.26E-03	2.34E-03	2.70E-03	3.24E-03	4.08E-03	4.00E-03	5.74E-03	1.06E-02	1.37E-03	2.70E-03	9.98E-06	1.87E-06	0.00E+00
Indiana	Scott County	18143	U	2.41E-04	2.41E-04	2.65E-04	3.41E-04	3.21E-04	3.63E-04	3.96E-04	3.96E-04	1.42E-04	1.73E-04	5.29E-06	1.38E-06	0.00E+00
Indiana	Shelby County	18145	U	5.68E-04	5.68E-04	7.62E-04	7.87E-04	8.60E-04	8.41E-04	1.44E-03	1.44E-03	6.87E-04	1.66E-04	6.79E-06	9.48E-07	0.00E+00
Indiana	Spencer County	18147	R	1.34E-03	1.34E-03	2.03E-03	2.45E-03	2.27E-03	2.51E-03	3.03E-03	3.03E-03	1.15E-03	1.11E-03	2.71E-06	6.17E-06	0.00E+00
Indiana	Starke County	18149	R	1.26E-03	1.26E-03	1.36E-03	1.76E-03	2.20E-03	3.45E-03	3.93E-03	3.93E-03	1.69E-03	5.15E-04	2.24E-06	4.79E-07	0.00E+00
Indiana	Steuben County	18151	R	1.85E-03	1.85E-03	2.16E-03	2.72E-03	2.99E-03	3.39E-03	5.11E-03	5.11E-03	7.10E-04	2.28E-03	4.76E-06	5.72E-07	0.00E+00
Indiana	Sullivan County	18153	R	3.64E-04	3.64E-04	4.18E-04	8.73E-04	1.36E-03	1.01E-03	4.14E-03	4.14E-03	1.28E-03	8.16E-05	2.10E-06	4.05E-07	0.00E+00
Indiana	Switzerland County	18155	R	4.00E-04	4.00E-04	4.00E-04	6.29E-04	6.48E-04	9.16E-04	9.16E-04	9.16E-04	1.24E-04	5.15E-04	2.16E-06	6.79E-06	0.00E+00
Indiana	Tippecanoe County	18157	U	2.71E-03	3.62E-03	7.71E-03	1.22E-02	2.21E-02	2.27E-02	3.94E-02	1.29E-01	1.27E-02	9.44E-03	8.18E-06	1.67E-06	0.00E+00
Indiana	Tipton County	18159	R	2.02E-04	2.02E-04	2.50E-04	3.69E-04	4.05E-04	5.59E-04	6.78E-04	6.78E-04	1.92E-04	2.10E-04	2.20E-06	4.76E-07	0.00E+00
Indiana	Union County	18161	R	3.74E-04	3.74E-04	3.74E-04	4.35E-04	4.35E-04	4.97E-04	4.97E-04	4.97E-04	1.45E-04	2.88E-04	1.87E-06	4.10E-07	0.00E+00
Indiana	Vanderburgh County	18163	U	6.57E-04	8.44E-04	1.01E-03	1.18E-03	1.30E-03	1.42E-03	1.96E-03	2.14E-03	5.20E-04	7.56E-04	1.48E-05	1.14E-05	0.00E+00
Indiana	Vermillion County	18165	R	9.43E-05	9.43E-05	9.98E-05	1.21E-04	4.09E-04	4.42E-04	1.29E-03	1.29E-03	4.28E-05	3.64E-04	2.50E-06	4.58E-07	0.00E+00
Indiana	Vigo County	18167	U	1.20E-04	1.79E-04	3.55E-04	4.63E-04	1.16E-03	9.42E-04	1.77E-03	2.68E-03	2.23E-04	9.20E-04	1.08E-05	1.23E-06	0.00E+00
Indiana	Wabash County	18169	U	1.46E-03	1.46E-03	5.40E-03	1.38E-02	2.12E-02	2.41E-02	8.17E-02	8.17E-02	1.95E-02	1.74E-03	4.14E-06	6.94E-07	0.00E+00
Indiana	Warren County	18171	R	2.30E-03	2.30E-03	2.30E-03	3.47E-03	3.47E-03	4.63E-03	4.63E-03	4.63E-03	1.33E-03	2.13E-03	1.25E-06	4.60E-07	0.00E+00
Indiana	Warrick County	18173	U	9.13E-04	9.99E-04	1.09E-03	1.31E-03	2.30E-03	2.23E-03	6.01E-03	8.84E-03	4.82E-04	1.81E-03	7.76E-06	5.77E-06	0.00E+00
Indiana	Washington County	18175	R	2.40E-04	2.40E-04	2.56E-04	6.25E-04	6.84E-04	9.36E-04	1.42E-03	1.42E-03	5.24E-04	1.56E-04	3.00E-06	1.13E-06	0.00E+00
Indiana	Wayne County	18177	U	2.86E-04	3.41E-04	6.10E-04	1.87E-03	4.33E-03	4.61E-03	5.53E-03	3.44E-02	9.80E-04	3.34E-03	4.31E-06	5.12E-07	0.00E+00
Indiana	Wells County	18179	U	5.89E-04	5.89E-04	7.91E-04	2.68E-03	1.11E-02	6.46E-03	6.34E-02	6.34E-02	9.24E-05	1.11E-02	3.16E-06	6.89E-07	0.00E+00
Indiana	White County	18181	R	1.20E-03	1.20E-03	1.88E-03	2.01E-03	4.22E-03	2.60E-03	1.96E-02	1.96E-02	3.93E-03	2.90E-04	2.05E-06	5.13E-07	0.00E+00
Indiana	Whitley County	18183	U	4.20E-03	4.20E-03	6.38E-03	7.42E-03	7.19E-03	7.84E-03	1.00E-02	1.00E-02	5.31E-03	1.88E-03	3.16E-06	5.88E-07	0.00E+00
Iowa	Statewide	N/A	N/A	2.45E-06	5.05E-06	3.11E-05	1.08E-04	2.13E-03	7.82E-04	2.43E-03	5.15E-03	1.16E-03	9.67E-04	4.26E-06	1.23E-06	0.00E+00
Iowa	All Urban Counties	N/A	U	1.22E-05	2.48E-05	6.11E-05	3.97E-04	2.34E-03	1.27E-03	3.67E-03	7.11E-03	8.10E-04	1.53E-03	6.28E-06	1.68E-06	0.00E+00
Iowa	All Rural Counties	N/A	R	1.80E-06	2.25E-06	7.84E-06	3.79E-05	1.80E-03	1.49E-04	4.97E-04	1.05E-03	1.72E-03	8.69E-05	1.08E-06	5.17E-07	0.00E+00
Iowa	Adair County	19001	R	1.37E-06	1.37E-06	1.37E-06	3.02E-06	4.88E-06	1.03E-05	1.03E-05	1.03E-05	2.86E-06	1.11E-06	6.16E-07	2.98E-07	0.00E+00
Iowa	Adams County	19003	R	1.35E-06	1.35E-06	1.35E-06	1.80E-06	1.80E-06	2.25E-06	2.25E-06	2.25E-06	0.00E+00	1.07E-06	3.69E-07	3.64E-07	0.00E+00
Iowa	Allamakee County	19005	R	1.36E-05	1.36E-05	1.56E-05	1.61E-05	3.23E-05	3.48E-05	8.13E-05	8.13E-05	2.57E-05	5.33E-06	5.74E-07	6.93E-07	0.00E+00
Iowa	Appanoose County	19007	R	2.05E-05	2.05E-05	4.03E-05	5.24E-05	4.84E-05	5.92E-05	6.97E-05	6.97E-05	4.23E-05	4.89E-06	9.17E-07	2.76E-07	0.00E+00
Iowa	Audubon County	19009	R	1.77E-06	1.77E-06	1.77E-06	4.05E-06	3.30E-06	4.08E-06	4.08E-06	4.08E-06	0.00E+00	2.02E-06	8.70E-07	4.15E-07	0.00E+00
Iowa	Benton County	19011	R	5.67E-05	5.67E-05	1.88E-04	2.47E-04	3.24E-04	5.98E-04	6.50E-04	6.50E-04	1.57E-04	1.65E-04	1.36E-06	4.59E-07	0.00E+00
Iowa	Black Hawk County	19013	U	6.53E-05	1.44E-04	2.57E-04	4.08E-04	6.90E-04	6.79E-04	1.80E-03	3.41E-03	1.22E-05	6.69E-04	8.16E-06	1.10E-06	0.00E+00
Iowa	Boone County	19015	U	5.05E-06	5.05E-06	1.14E-05	2.32E-05	2.64E-05	4.34E-05	4.45E-05	4.45E-05	1.50E-05	8.50E-06	2.28E-06	6.77E-07	0.00E+00
Iowa	Bremer County	19017	R	1.36E-04	1.36E-04	1.46E-04	1.76E-04	2.08E-04	2.17E-04	4.48E-04	4.48E-04	3.04E-06	2.02E-04	2.32E-06	6.03E-07	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Iowa	Calhoun County	19025	R	1.70E-06	1.70E-06	1.81E-06	1.94E-06	1.96E-06	2.12E-06	2.28E-06	2.28E-06	0.00E+00	1.14E-06	4.57E-07	3.63E-07	0.00E+00
Iowa	Carroll County	19027	R	2.45E-06	2.45E-06	2.49E-06	2.84E-06	1.11E-05	2.79E-05	2.80E-05	2.80E-05	0.00E+00	7.99E-06	2.24E-06	8.52E-07	0.00E+00
Iowa	Cass County	19029	U	1.66E-06	1.66E-06	1.68E-06	2.53E-06	5.63E-06	7.79E-06	1.45E-05	1.45E-05	0.00E+00	4.14E-06	1.10E-06	3.94E-07	0.00E+00
Iowa	Cedar County	19031	R	1.93E-04	1.93E-04	3.05E-04	4.18E-04	4.88E-04	5.14E-04	1.01E-03	1.01E-03	1.61E-04	3.25E-04	1.34E-06	5.64E-07	0.00E+00
Iowa	Cerro Gordo County	19033	U	2.69E-05	3.32E-05	5.53E-05	6.00E-05	7.13E-05	7.69E-05	1.35E-04	1.37E-04	5.17E-06	5.88E-05	6.02E-06	1.34E-06	0.00E+00
Iowa	Cherokee County	19035	R	1.66E-06	1.66E-06	1.70E-06	1.77E-06	3.21E-06	4.73E-06	7.65E-06	7.65E-06	0.00E+00	2.35E-06	5.48E-07	3.10E-07	0.00E+00
Iowa	Chickasaw County	19037	R	2.30E-04	2.30E-04	3.21E-04	5.55E-04	1.01E-03	1.71E-03	2.72E-03	2.72E-03	0.00E+00	1.01E-03	9.75E-07	4.15E-07	0.00E+00
Iowa	Clarke County	19039	U	1.26E-04	1.26E-04	1.26E-04	1.31E-04	1.25E-03	3.48E-03	3.48E-03	3.48E-03	0.00E+00	1.24E-03	1.51E-06	3.59E-07	0.00E+00
Iowa	Clay County	19041	U	2.10E-06	2.10E-06	5.25E-06	9.14E-06	9.53E-06	1.38E-05	1.78E-05	1.78E-05	0.00E+00	7.70E-06	1.27E-06	5.66E-07	0.00E+00
Iowa	Clayton County	19043	R	1.30E-05	1.30E-05	2.04E-05	4.99E-05	5.04E-05	6.80E-05	1.01E-04	1.01E-04	4.36E-05	5.05E-06	6.21E-07	1.16E-06	0.00E+00
Iowa	Clinton County	19045	U	6.82E-05	1.94E-04	5.12E-04	9.05E-04	1.59E-03	2.22E-03	2.99E-03	6.66E-03	9.55E-04	6.27E-04	2.90E-06	2.59E-06	0.00E+00
Iowa	Crawford County	19047	R	1.39E-06	1.39E-06	1.73E-06	1.85E-06	3.31E-06	2.15E-06	9.42E-06	9.42E-06	0.00E+00	2.28E-06	6.14E-07	4.11E-07	0.00E+00
Iowa	Dallas County	19049	U	3.40E-05	3.40E-05	5.63E-05	6.16E-05	1.22E-04	9.92E-05	5.47E-04	5.47E-04	1.12E-04	7.27E-06	2.12E-06	6.34E-07	0.00E+00
Iowa	Davis County	19051	R	2.23E-04	2.23E-04	2.23E-04	3.95E-04	3.95E-04	5.67E-04	5.67E-04	5.67E-04	3.81E-04	1.34E-05	4.57E-07	2.49E-07	0.00E+00
Iowa	Decatur County	19053	R	9.79E-06	9.79E-06	9.79E-06	2.36E-05	1.96E-05	2.55E-05	2.55E-05	2.55E-05	0.00E+00	1.86E-05	8.32E-07	1.77E-07	0.00E+00
Iowa	Delaware County	19055	R	2.29E-05	2.29E-05	3.48E-05	4.69E-05	5.04E-05	6.59E-05	8.49E-05	8.49E-05	4.33E-05	5.50E-06	1.07E-06	4.96E-07	0.00E+00
Iowa	Des Moines County	19057	U	1.35E-03	1.44E-03	1.81E-03	2.06E-03	2.94E-03	2.78E-03	2.80E-03	1.16E-02	2.63E-03	3.08E-04	2.77E-06	1.75E-06	0.00E+00
Iowa	Dickinson County	19059	R	2.63E-06	2.63E-06	2.89E-06	3.16E-06	6.40E-06	8.74E-06	1.46E-05	1.46E-05	4.16E-11	5.01E-06	8.88E-07	5.02E-07	0.00E+00
Iowa	Dubuque County	19061	U	1.25E-04	1.35E-04	3.96E-04	5.54E-04	1.18E-03	7.92E-04	9.89E-04	1.30E-03	1.11E-03	6.00E-05	6.31E-06	3.14E-06	0.00E+00
Iowa	Emmet County	19063	U	5.36E-06	5.36E-06	1.33E-05	2.27E-05	3.31E-05	5.29E-05	8.15E-05	8.15E-05	2.83E-10	3.17E-05	9.26E-07	4.04E-07	0.00E+00
Iowa	Fayette County	19065	R	1.64E-04	1.64E-04	1.67E-04	1.79E-04	2.54E-04	2.84E-04	5.48E-04	5.48E-04	4.63E-07	2.52E-04	1.39E-06	4.24E-07	0.00E+00
Iowa	Floyd County	19067	R	5.20E-06	5.20E-06	6.75E-06	1.38E-04	9.23E-05	1.56E-04	1.56E-04	1.56E-04	9.67E-07	8.92E-05	1.50E-06	6.62E-07	0.00E+00
Iowa	Franklin County	19069	R	4.57E-05	4.57E-05	4.57E-05	4.93E-05	5.67E-05	7.51E-05	7.51E-05	7.51E-05	7.39E-07	5.45E-05	8.66E-07	5.82E-07	0.00E+00
Iowa	Fremont County	19071	R	5.24E-06	5.24E-06	5.24E-06	6.14E-06	2.17E-05	5.36E-05	5.36E-05	5.36E-05	1.85E-05	2.07E-06	8.01E-07	3.47E-07	0.00E+00
Iowa	Greene County	19073	R	2.13E-06	2.13E-06	2.77E-06	3.62E-06	6.35E-06	9.94E-06	1.60E-05	1.60E-05	3.43E-06	1.77E-06	4.94E-07	6.54E-07	0.00E+00
Iowa	Grundy County	19075	R	1.33E-05	1.33E-05	2.51E-05	3.77E-05	3.55E-05	4.58E-05	5.30E-05	5.30E-05	7.46E-06	2.68E-05	8.09E-07	3.74E-07	0.00E+00
Iowa	Guthrie County	19077	R	1.61E-05	1.61E-05	1.61E-05	2.23E-05	2.38E-05	3.31E-05	3.31E-05	3.31E-05	2.21E-05	9.25E-07	5.75E-07	2.69E-07	0.00E+00
Iowa	Hamilton County	19079	R	6.50E-06	6.50E-06	7.42E-06	2.47E-05	2.12E-05	3.34E-05	3.41E-05	3.41E-05	1.53E-06	1.76E-05	1.55E-06	5.32E-07	0.00E+00
Iowa	Hancock County	19081	R	8.75E-05	8.75E-05	1.41E-04	1.97E-04	2.08E-04	2.76E-04	3.51E-04	3.51E-04	1.26E-06	2.06E-04	5.68E-07	4.26E-07	0.00E+00
Iowa	Hardin County	19083	R	3.16E-06	3.16E-06	8.02E-06	1.04E-05	1.52E-05	2.33E-05	3.59E-05	3.59E-05	3.33E-06	1.07E-05	7.77E-07	3.74E-07	0.00E+00
Iowa	Harrison County	19085	R	3.81E-06	3.81E-06	1.00E-05	3.84E-05	7.50E-05	7.07E-05	2.52E-04	2.52E-04	2.82E-05	4.41E-05	2.05E-06	7.18E-07	0.00E+00
Iowa	Henry County	19087	R	3.48E-03	3.48E-03	8.42E-03	1.04E-02	1.02E-01	5.21E-02	4.34E-01	4.34E-01	1.02E-01	5.27E-05	1.25E-06	6.96E-07	0.00E+00
Iowa	Howard County	19089	R	9.24E-05	9.24E-05	9.24E-05	1.12E-04	1.31E-04	1.88E-04	1.88E-04	1.88E-04	0.00E+00	1.30E-04	5.40E-07	2.93E-07	0.00E+00
Iowa	Humboldt County	19091	R	3.86E-05	3.86E-05	4.16E-05	4.57E-05	4.71E-05	5.26E-05	5.85E-05	5.85E-05	5.15E-07	4.49E-05	9.96E-07	7.06E-07	0.00E+00
Iowa	Ida County	19093	R	2.00E-06	2.00E-06	2.00E-06	4.47E-06	3.68E-06	4.58E-06	4.58E-06	4.58E-06	0.00E+00	2.57E-06	6.91E-07	4.19E-07	0.00E+00
Iowa	Iowa County	19095	R	2.25E-04	2.25E-04	5.06E-04	9.16E-04	1.12E-03	1.74E-03	2.43E-03	2.43E-03	9.30E-05	1.03E-03	1.17E-06	3.25E-07	0.00E+00
Iowa	Jackson County	19097	R	9.01E-05	9.01E-05	9.10E-05	1.04E-04	1.10E-04	1.14E-04	1.59E-04	1.59E-04	3.66E-05	7.13E-05	1.21E-06	1.24E-06	0.00E+00
Iowa	Jasper County	19099	R	1.20E-05	1.20E-05	1.55E-05	1.86E-05	5.82E-05	6.53E-05	1.86E-04	1.86E-04	4.31E-05	1.21E-05	2.31E-06	6.87E-07	0.00E+00
Iowa	Jefferson County	19101	U	8.68E-04	8.68E-04	1.01E-03	1.21E-03	1.28E-03	1.55E-03	1.82E-03	1.82E-03	1.23E-03	4.39E-05	1.51E-06	5.93E-07	0.00E+00
Iowa	Johnson County	19103	U	5.50E-04	5.54E-04	6.62E-04	7.48E-04	1.14E-03	7.89E-04	8.38E-04	8.68E-04	9.26E-04	2.00E-04	7.43E-06	1.99E-06	0.00E+00
Iowa	Jones County	19105	R	1.12E-05	1.12E-05	8.50E-05	1.19E-04	3.69E-04	1.49E-04	1.48E-03	1.48E-03	3.61E-04	6.41E-06	1.31E-06	4.11E-07	0.00E+00
Iowa	Keokuk County	19107	R	2.42E-05	2.42E-05	5.14E-05	9.24E-05	9.64E-05	1.41E-04	1.77E-04	1.77E-04	1.04E-05	8.49E-05	7.58E-07	3.41E-07	0.00E+00
Iowa	Kossuth County	19109	R	2.24E-05	2.24E-05	4.30E-05	1.36E-04	1.37E-04	1.82E-04	3.03E-04	3.03E-04	9.64E-11	1.36E-04	9.91E-07	5.86E-07	0.00E+00
Iowa	Lee County	19111	U	2.33E-03	2.51E-03	2.55E-03	3.60E-03	3.56E-02	2.57E-02	2.91E-02	3.00E-01	7.87E-04	3.48E-02	2.26E-06	2.99E-06	0.00E+00
Iowa	Linn County	19113	U	2.36E-04	3.18E-04	7.86E-04	1.07E-03	1.06E-03	1.33E-03	1.50E-03	1.70E-03	8.76E-04	1.73E-04	7.11E-06	1.15E-06	0.00E+00
Iowa	Louisa County	19115	R	1.07E-03	1.07E-03	1.07E-03	1.23E-03	1.23E-03	1.39E-03	1.39E-03	1.39E-03	1.16E-03	7.29E-05	8.64E-07	1.62E-06	0.00E+00
Iowa	Lucas County	19117	R	5.18E-06	5.18E-06	1.67E-05	2.95E-05	2.38E-05	3.09E-05	3.11E-05	3.11E-05	2.88E-06	1.96E-05	8.16E-07	4.95E-07	0.00E+00
Iowa	Lyon County	19119	R	2.35E-06	2.35E-06	2.35E-06	2.73E-06	2.82E-06	3.39E-06	3.39E-06	3.39E-06	0.00E+00	1.78E-06	6.50E-07	3.96E-07	0.00E+00
Iowa	Madison County	19121	R	3.75E-05	3.75E-05	3.75E-05	4.80E-05	4.51E-05	4.98E-05	4.98E-05	4.98E-05	2.11E-05	2.26E-05	1.05E-06	3.91E-07	0.00E+00
Iowa	Mahaska County	19123	R	5.14E-05	5.14E-05	6.56E-05	1.04E-04	9.56E-05	1.13E-04	1.28E-04	1.28E-04	5.93E-05	3.41E-05	1.48E-06	6.85E-07	0.00E+00
Iowa	Marion County	19125	U	6.36E-06	6.36E-06	1.65E-05	3.89E-05	6.40E-05	9.65E-05	2.01E-04	2.01E-04	4.62E-05	1.54E-05	1.83E-06	5.30E-07	0.00E+00
Iowa	Marshall County	19127	U	1.23E-05	1.25E-05	1.5										

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Iowa	Monona County	19133	R	1.62E-06	1.62E-06	1.57E-04	2.18E-04	1.74E-04	2.30E-04	2.64E-04	2.64E-04	1.66E-04	6.39E-06	9.58E-07	4.31E-07	0.00E+00
Iowa	Monroe County	19135	R	4.72E-05	4.72E-05	4.72E-05	6.65E-05	6.40E-05	7.85E-05	7.85E-05	7.85E-05	5.06E-05	1.27E-05	4.73E-07	3.21E-07	0.00E+00
Iowa	Montgomery County	19137	U	1.65E-06	1.65E-06	2.49E-06	5.96E-06	7.43E-06	1.24E-05	1.62E-05	1.62E-05	0.00E+00	5.54E-06	1.12E-06	7.79E-07	0.00E+00
Iowa	Muscatine County	19139	U	4.73E-04	5.35E-04	1.03E-03	1.16E-03	1.47E-03	1.35E-03	3.32E-03	5.16E-03	4.63E-04	1.00E-03	3.76E-06	2.52E-06	0.00E+00
Iowa	O'Brien County	19141	R	1.85E-06	1.85E-06	1.91E-06	2.20E-06	4.25E-06	6.59E-06	1.07E-05	1.07E-05	0.00E+00	3.07E-06	7.86E-07	3.95E-07	0.00E+00
Iowa	Osceola County	19143	R	2.03E-06	2.03E-06	2.03E-06	2.46E-06	2.46E-06	2.88E-06	2.88E-06	2.88E-06	0.00E+00	1.61E-06	3.89E-07	4.61E-07	0.00E+00
Iowa	Page County	19145	U	2.98E-06	2.98E-06	1.79E-05	3.72E-05	3.45E-05	4.97E-05	6.22E-05	6.22E-05	9.22E-07	3.18E-05	1.34E-06	4.63E-07	0.00E+00
Iowa	Palo Alto County	19147	R	1.21E-05	1.21E-05	1.49E-05	2.26E-05	1.26E-04	2.37E-04	4.46E-04	4.46E-04	2.48E-11	1.25E-04	3.92E-07	4.09E-07	0.00E+00
Iowa	Plymouth County	19149	R	6.63E-06	6.63E-06	3.13E-05	3.62E-05	5.41E-05	3.96E-05	1.75E-04	1.75E-04	2.62E-05	2.58E-05	1.59E-06	5.09E-07	0.00E+00
Iowa	Pocahontas County	19151	R	1.91E-06	1.91E-06	1.91E-06	1.16E-05	9.94E-06	1.63E-05	1.63E-05	1.63E-05	0.00E+00	9.26E-06	3.65E-07	3.23E-07	0.00E+00
Iowa	Polk County	19153	U	3.41E-05	4.28E-05	6.04E-05	7.06E-05	8.30E-05	8.77E-05	1.33E-04	1.49E-04	2.24E-05	4.80E-05	1.06E-05	1.98E-06	0.00E+00
Iowa	Pottawattamie County	19155	U	4.64E-05	7.34E-05	4.89E-04	1.24E-03	1.26E-03	1.74E-03	2.27E-03	2.79E-03	4.55E-04	7.92E-04	7.62E-06	1.21E-06	0.00E+00
Iowa	Poweshiek County	19157	R	9.81E-06	9.81E-06	2.31E-05	3.01E-05	8.80E-05	1.48E-04	2.29E-04	2.29E-04	5.42E-06	8.07E-05	1.43E-06	4.54E-07	0.00E+00
Iowa	Ringgold County	19159	R	1.45E-06	1.45E-06	1.45E-06	5.52E-06	5.52E-06	9.59E-06	9.59E-06	9.59E-06	0.00E+00	4.99E-06	3.00E-07	2.29E-07	0.00E+00
Iowa	Sac County	19161	R	1.62E-06	1.62E-06	1.80E-06	2.35E-06	2.26E-06	2.73E-06	2.73E-06	2.73E-06	0.00E+00	1.38E-06	5.29E-07	3.51E-07	0.00E+00
Iowa	Scott County	19163	U	1.19E-03	1.57E-03	3.50E-03	5.18E-03	8.80E-03	8.27E-03	1.56E-02	1.65E-02	4.97E-03	3.82E-03	8.66E-06	3.77E-06	0.00E+00
Iowa	Shelby County	19165	R	1.65E-06	1.65E-06	1.76E-06	2.66E-06	2.92E-06	4.08E-06	4.73E-06	4.73E-06	0.00E+00	1.73E-06	7.45E-07	4.48E-07	0.00E+00
Iowa	Sioux County	19167	R	2.45E-06	2.45E-06	3.19E-06	4.72E-06	9.62E-06	2.32E-05	2.44E-05	2.44E-05	0.00E+00	7.71E-06	1.36E-06	5.50E-07	0.00E+00
Iowa	Story County	19169	U	7.71E-06	1.18E-05	2.52E-05	4.76E-05	5.16E-05	7.62E-05	1.01E-04	1.11E-04	2.64E-05	1.91E-05	4.76E-06	1.33E-06	0.00E+00
Iowa	Tama County	19171	R	9.67E-06	9.67E-06	1.10E-05	1.64E-05	1.72E-05	1.95E-05	3.01E-05	3.01E-05	6.26E-06	9.55E-06	8.82E-07	4.85E-07	0.00E+00
Iowa	Taylor County	19173	R	1.58E-06	1.58E-06	1.58E-06	6.75E-05	5.91E-05	1.08E-04	1.08E-04	1.08E-04	0.00E+00	5.86E-05	2.35E-07	2.02E-07	0.00E+00
Iowa	Union County	19175	U	2.39E-05	2.39E-05	2.90E-05	3.49E-05	3.29E-05	3.69E-05	3.81E-05	3.81E-05	0.00E+00	3.08E-05	1.40E-06	7.44E-07	0.00E+00
Iowa	Van Buren County	19177	R	6.96E-04	6.96E-04	6.96E-04	9.24E-04	9.24E-04	1.15E-03	1.15E-03	1.15E-03	8.40E-04	8.35E-05	3.37E-07	2.49E-07	0.00E+00
Iowa	Wapello County	19179	U	1.17E-04	1.39E-04	1.79E-04	3.43E-04	6.53E-04	8.02E-04	1.27E-03	2.61E-03	9.98E-05	5.50E-04	3.13E-06	7.05E-07	0.00E+00
Iowa	Warren County	19181	U	1.03E-05	2.13E-05	3.08E-05	3.94E-05	3.86E-05	4.81E-05	5.57E-05	5.84E-05	1.37E-05	2.15E-05	2.76E-06	6.32E-07	0.00E+00
Iowa	Washington County	19183	R	3.41E-04	3.41E-04	8.34E-04	1.35E-03	1.33E-03	1.71E-03	2.41E-03	2.41E-03	1.10E-03	2.27E-04	1.62E-06	8.09E-07	0.00E+00
Iowa	Wayne County	19185	R	2.45E-06	2.45E-06	2.45E-06	2.78E-06	8.45E-06	2.01E-05	2.01E-05	2.01E-05	5.59E-07	7.24E-06	3.98E-07	2.53E-07	0.00E+00
Iowa	Webster County	19187	U	2.73E-06	3.66E-06	4.17E-06	1.29E-05	1.98E-05	3.13E-05	4.76E-05	5.60E-05	2.20E-07	1.58E-05	3.08E-06	7.62E-07	0.00E+00
Iowa	Winnebago County	19189	R	1.50E-05	1.50E-05	1.50E-05	6.32E-05	6.77E-05	1.25E-04	1.25E-04	1.25E-04	1.09E-06	6.57E-05	5.91E-07	3.11E-07	0.00E+00
Iowa	Winneshiek County	19191	R	1.67E-06	1.67E-06	1.67E-05	4.52E-05	4.05E-05	6.94E-05	6.94E-05	6.94E-05	2.24E-06	3.68E-05	1.07E-06	3.65E-07	0.00E+00
Iowa	Woodbury County	19193	U	7.76E-05	3.77E-04	6.43E-04	1.41E-03	3.44E-03	2.62E-03	4.35E-03	7.38E-03	2.61E-04	3.17E-03	5.57E-06	1.11E-06	0.00E+00
Iowa	Worth County	19195	R	3.00E-05	3.00E-05	3.00E-05	3.19E-05	3.87E-05	5.43E-05	5.43E-05	5.43E-05	1.37E-05	2.41E-05	6.48E-07	3.06E-07	0.00E+00
Iowa	Wright County	19197	R	4.73E-05	4.73E-05	8.50E-05	9.36E-05	2.88E-04	1.99E-04	1.02E-03	1.02E-03	1.55E-06	2.86E-04	4.91E-07	4.28E-07	0.00E+00
Kansas	Statewide	N/A	N/A	6.09E-07	2.43E-06	5.30E-05	2.69E-04	1.27E-03	8.63E-04	2.59E-03	4.72E-03	1.49E-04	1.11E-03	7.56E-06	1.28E-06	0.00E+00
Kansas	All Urban Counties	N/A	U	6.44E-06	2.96E-05	1.46E-04	3.88E-04	1.54E-03	1.09E-03	3.52E-03	5.22E-03	1.81E-04	1.35E-03	9.40E-06	1.54E-06	0.00E+00
Kansas	All Rural Counties	N/A	R	2.11E-07	3.27E-07	8.80E-07	1.61E-05	2.67E-04	1.20E-04	4.34E-04	1.05E-03	3.16E-05	2.34E-04	8.26E-07	3.02E-07	0.00E+00
Kansas	Allen County	20001	R	6.79E-06	6.79E-06	5.38E-05	1.03E-04	8.01E-05	1.09E-04	1.28E-04	1.28E-04	7.53E-05	3.25E-06	1.10E-06	4.09E-07	0.00E+00
Kansas	Anderson County	20003	R	1.70E-06	1.70E-06	1.70E-06	1.38E-05	1.38E-05	2.58E-05	2.58E-05	2.58E-05	1.24E-05	6.32E-07	3.50E-07	3.88E-07	0.00E+00
Kansas	Atchison County	20005	U	2.02E-04	2.02E-04	2.21E-03	4.82E-03	1.20E-02	2.17E-02	3.80E-02	3.80E-02	3.24E-05	1.19E-02	2.89E-06	6.33E-07	0.00E+00
Kansas	Barber County	20007	R	2.65E-07	2.65E-07	2.65E-07	9.93E-07	3.93E-07	5.21E-07	5.21E-07	5.21E-07	0.00E+00	1.88E-07	6.85E-08	1.37E-07	0.00E+00
Kansas	Barton County	20009	U	7.01E-07	7.01E-07	2.58E-06	9.45E-06	2.00E-05	4.34E-05	4.87E-05	4.87E-05	0.00E+00	1.77E-05	1.86E-06	4.43E-07	0.00E+00
Kansas	Bourbon County	20011	U	1.00E-05	1.00E-05	2.70E-05	3.75E-05	5.76E-05	5.66E-05	1.57E-04	1.57E-04	1.47E-05	4.12E-05	1.38E-06	3.69E-07	0.00E+00
Kansas	Brown County	20013	R	5.25E-06	5.25E-06	5.25E-06	9.51E-05	6.78E-05	1.03E-04	1.03E-04	1.03E-04	5.17E-06	6.16E-05	6.88E-07	3.82E-07	0.00E+00
Kansas	Butler County	20015	U	1.69E-05	2.78E-05	4.24E-05	4.94E-05	8.41E-05	6.21E-05	1.36E-04	4.50E-04	7.45E-05	6.60E-06	2.49E-06	5.09E-07	0.00E+00
Kansas	Chase County	20017	R	3.53E-06	3.53E-06	3.53E-06	3.53E-06	3.53E-06	3.53E-06	3.53E-06	3.53E-06	0.00E+00	3.08E-06	3.16E-07	1.32E-07	0.00E+00
Kansas	Chautauqua County	20019	R	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	0.00E+00	1.16E-05	2.76E-07	6.89E-08	0.00E+00
Kansas	Cherokee County	20021	R	1.05E-03	1.05E-03	1.46E-03	1.71E-03	2.51E-03	2.21E-03	6.95E-03	6.95E-03	1.10E-04	2.40E-03	1.77E-06	3.14E-07	0.00E+00
Kansas	Cheyenne County	20023	R	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	0.00E+00	3.80E-08	5.53E-08	7.03E-08	0.00E+00
Kansas	Clark County	20025	R	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	0.00E+00	5.94E-08	5.38E-08	5.30E-08	0.00E+00
Kansas	Clay County	20027	U	5.14E-05	5.14E-05	5.14E-05	5.19E-05	5.19E-05	5.23E-05	5.23E-05	5.23E-05	4.91E-05	1.61E-06	8.07E-07	3.57E-07	0.00E+00
Kansas	Cloud County	20029	U	5.59E-05	5.59E-05	6.54E-05	3.09E-04	8.16E-04	1.57E-03	2.59E-03	2.59E-03	8.13E-04	1.36E-06	5.99E-07	7.94E-07	0.00E+00
Kansas	Coffey County	20031	R	1.06E-06	1.06E-06	1.06E-06	4.39E-06	3.92E-06	6.31E-06	6.31E-06	6.31E-06	0.00E+00	3.08E-06	5.38E-07	3.05E-07	0.00E+00
Kansas	Comanche County	20033	R	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	0.00E+00	5.85E-08	2.71E-08	5.91E-08	0.00E+00
Kansas	Cowley County	20035	U	5.17E-07	3.55E-06	5.51E-06	1.91E-05	1.73E-05	2.47E-05	2.81E-05	3.75E-05	7.51E-06	6.83E-06	2.52E-06	4.86E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Kansas	Crawford County	20037	U	5.01E-04	7.75E-04	7.78E-04	1.32E-03	1.19E-03	1.45E-03	1.53E-03	1.55E-03	1.02E-04	1.09E-03	2.93E-06	5.67E-07	0.00E+00
Kansas	Decatur County	20039	R	2.47E-07	2.47E-07	2.47E-07	8.62E-07	8.62E-07	1.48E-06	1.48E-06	1.48E-06	0.00E+00	2.67E-07	4.19E-07	1.77E-07	0.00E+00
Kansas	Dickinson County	20041	R	3.33E-06	3.33E-06	1.11E-04	1.26E-04	1.12E-04	1.47E-04	1.60E-04	1.60E-04	1.07E-04	3.38E-06	1.29E-06	4.63E-07	0.00E+00
Kansas	Doniphan County	20043	R	1.92E-04	1.92E-04	1.92E-04	3.04E-04	3.50E-04	5.54E-04	5.54E-04	5.54E-04	1.05E-04	2.43E-04	1.24E-06	4.31E-07	0.00E+00
Kansas	Douglas County	20045	U	1.41E-04	1.44E-04	3.29E-04	4.03E-04	3.58E-04	4.51E-04	4.79E-04	5.03E-04	1.34E-04	2.15E-04	6.78E-06	1.18E-06	0.00E+00
Kansas	Edwards County	20047	R	3.29E-07	3.29E-07	3.29E-07	1.23E-06	1.23E-06	2.14E-06	2.14E-06	2.14E-06	0.00E+00	6.86E-07	3.73E-07	1.75E-07	0.00E+00
Kansas	Elk County	20049	R	6.09E-07	6.09E-07	6.09E-07	6.09E-07	6.09E-07	6.09E-07	6.09E-07	6.09E-07	1.05E-07	2.72E-07	1.49E-07	8.32E-08	0.00E+00
Kansas	Ellis County	20051	U	7.94E-07	7.94E-07	8.03E-07	8.26E-06	5.48E-06	8.77E-06	8.79E-06	8.79E-06	0.00E+00	3.20E-06	1.93E-06	3.60E-07	0.00E+00
Kansas	Ellsworth County	20053	R	5.55E-05	5.55E-05	5.55E-05	6.68E-05	6.68E-05	7.81E-05	7.81E-05	7.81E-05	0.00E+00	6.61E-05	5.19E-07	1.76E-07	0.00E+00
Kansas	Finney County	20055	U	7.61E-06	7.61E-06	1.37E-05	1.54E-05	1.53E-05	1.69E-05	1.69E-05	2.28E-05	5.85E-06	6.65E-06	2.21E-06	6.03E-07	0.00E+00
Kansas	Ford County	20057	U	5.25E-07	5.25E-07	1.05E-06	5.11E-06	4.91E-06	6.48E-06	1.12E-05	1.12E-05	0.00E+00	3.50E-06	1.11E-06	2.88E-07	0.00E+00
Kansas	Franklin County	20059	R	2.11E-06	2.11E-06	1.23E-05	1.51E-05	1.44E-05	1.76E-05	2.48E-05	2.48E-05	5.00E-06	4.36E-06	4.14E-06	8.74E-07	0.00E+00
Kansas	Geary County	20061	U	3.98E-04	3.98E-04	7.25E-04	1.03E-03	1.34E-03	1.51E-03	3.79E-03	3.79E-03	1.33E-03	5.33E-06	4.18E-06	1.40E-06	0.00E+00
Kansas	Gove County	20063	R	4.92E-07	4.92E-07	4.92E-07	5.89E-07	5.89E-07	6.86E-07	6.86E-07	6.86E-07	0.00E+00	6.81E-08	3.70E-07	1.51E-07	0.00E+00
Kansas	Graham County	20065	R	3.72E-07	3.72E-07	3.72E-07	6.83E-07	6.83E-07	9.94E-07	9.94E-07	9.94E-07	0.00E+00	3.23E-07	2.05E-07	1.55E-07	0.00E+00
Kansas	Grant County	20067	U	1.98E-06	1.98E-06	1.98E-06	3.37E-06	3.37E-06	4.76E-06	4.76E-06	4.76E-06	1.39E-06	1.25E-06	4.03E-07	3.30E-07	0.00E+00
Kansas	Gray County	20069	R	3.79E-07	3.79E-07	3.79E-07	4.82E-07	4.82E-07	5.85E-07	5.85E-07	5.85E-07	0.00E+00	2.00E-07	1.32E-07	1.49E-07	0.00E+00
Kansas	Greeley County	20071	R	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	0.00E+00	3.24E-08	2.05E-08	1.26E-07	0.00E+00
Kansas	Greenwood County	20073	R	7.61E-07	7.61E-07	7.61E-07	2.58E-06	2.06E-06	2.84E-06	2.84E-06	2.84E-06	7.92E-08	1.29E-06	4.46E-07	2.47E-07	0.00E+00
Kansas	Hamilton County	20075	R	2.86E-07	2.86E-07	2.86E-07	2.86E-07	2.86E-07	2.86E-07	2.86E-07	2.86E-07	0.00E+00	8.56E-08	7.32E-08	1.27E-07	0.00E+00
Kansas	Harper County	20077	R	9.56E-06	9.56E-06	9.56E-06	1.82E-05	1.77E-05	2.53E-05	2.53E-05	2.53E-05	0.00E+00	1.72E-05	1.69E-07	3.07E-07	0.00E+00
Kansas	Harvey County	20079	U	3.69E-04	3.69E-04	1.02E-03	1.25E-03	2.47E-03	2.94E-03	7.96E-03	7.96E-03	5.24E-04	1.94E-03	3.78E-06	7.16E-07	0.00E+00
Kansas	Haskell County	20081	R	8.63E-06	8.63E-06	8.63E-06	8.63E-06	8.63E-06	8.63E-06	8.63E-06	8.63E-06	3.08E-06	5.26E-06	1.06E-07	1.75E-07	0.00E+00
Kansas	Hodgeman County	20083	R	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	0.00E+00	2.24E-07	7.24E-08	1.05E-07	0.00E+00
Kansas	Jackson County	20085	R	1.72E-04	1.72E-04	1.72E-04	1.92E-04	2.02E-04	2.43E-04	2.43E-04	2.43E-04	1.99E-04	2.10E-06	1.28E-06	3.54E-07	0.00E+00
Kansas	Jefferson County	20087	R	8.83E-05	8.83E-05	8.83E-05	9.08E-05	2.16E-04	4.70E-04	4.70E-04	4.70E-04	8.11E-05	1.33E-04	1.54E-06	3.71E-07	0.00E+00
Kansas	Jewell County	20089	R	5.23E-07	5.23E-07	5.23E-07	5.42E-07	5.42E-07	5.62E-07	5.62E-07	5.62E-07	0.00E+00	1.39E-07	1.49E-07	2.54E-07	0.00E+00
Kansas	Johnson County	20091	U	5.74E-04	6.49E-04	7.76E-04	1.01E-03	1.25E-03	1.51E-03	2.15E-03	2.50E-03	6.00E-05	1.17E-03	1.53E-05	2.52E-06	0.00E+00
Kansas	Kearny County	20093	R	4.08E-06	4.08E-06	4.08E-06	4.08E-06	4.08E-06	4.08E-06	4.08E-06	4.08E-06	3.59E-06	2.08E-07	1.24E-07	1.58E-07	0.00E+00
Kansas	Kingman County	20095	R	1.74E-05	1.74E-05	1.74E-05	3.53E-05	7.30E-05	1.66E-04	1.66E-04	1.66E-04	4.48E-06	6.81E-05	2.17E-07	2.17E-07	0.00E+00
Kansas	Kiowa County	20097	R	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	0.00E+00	1.26E-07	8.38E-08	1.15E-07	0.00E+00
Kansas	Labette County	20099	R	1.71E-05	1.71E-05	2.10E-04	4.78E-04	1.98E-03	6.04E-04	1.32E-02	1.32E-02	1.28E-05	1.96E-03	2.24E-06	5.75E-07	0.00E+00
Kansas	Lane County	20101	R	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	0.00E+00	5.86E-08	2.43E-08	7.89E-08	0.00E+00
Kansas	Leavenworth County	20103	U	3.02E-04	3.28E-04	3.50E-04	4.02E-04	5.25E-04	5.32E-04	9.14E-04	1.36E-03	7.11E-05	4.49E-04	4.17E-06	8.77E-07	0.00E+00
Kansas	Lincoln County	20105	R	5.58E-07	5.58E-07	5.58E-07	5.58E-07	5.58E-07	5.58E-07	5.58E-07	5.58E-07	0.00E+00	1.90E-07	2.20E-07	1.48E-07	0.00E+00
Kansas	Linn County	20107	R	3.02E-05	3.02E-05	3.02E-05	4.34E-05	4.34E-05	5.65E-05	5.65E-05	5.65E-05	4.05E-05	2.20E-06	4.08E-07	2.46E-07	0.00E+00
Kansas	Logan County	20109	R	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	0.00E+00	3.37E-08	8.89E-08	7.88E-08	0.00E+00
Kansas	Lyon County	20111	U	4.10E-06	4.10E-06	2.29E-05	6.56E-05	7.49E-05	9.46E-05	2.29E-04	2.29E-04	0.00E+00	7.13E-05	2.76E-06	8.24E-07	0.00E+00
Kansas	McPherson County	20113	U	4.09E-05	4.09E-05	1.32E-04	2.94E-04	2.58E-04	3.25E-04	4.50E-04	4.50E-04	2.22E-04	3.26E-05	2.12E-06	5.68E-07	0.00E+00
Kansas	Marion County	20115	R	8.33E-07	8.33E-07	1.04E-05	3.24E-05	2.85E-05	4.65E-05	4.82E-05	4.82E-05	1.89E-05	8.97E-06	3.32E-07	2.26E-07	0.00E+00
Kansas	Marshall County	20117	R	8.60E-07	8.60E-07	1.02E-06	4.26E-05	5.14E-05	1.02E-04	1.20E-04	1.20E-04	2.60E-12	5.05E-05	5.53E-07	4.11E-07	0.00E+00
Kansas	Meade County	20119	R	1.06E-06	1.06E-06	1.06E-06	1.55E-06	1.55E-06	2.04E-06	2.04E-06	2.04E-06	0.00E+00	1.19E-06	2.00E-07	1.56E-07	0.00E+00
Kansas	Miami County	20121	U	4.21E-05	4.21E-05	4.86E-05	9.46E-05	1.54E-04	2.78E-04	3.46E-04	3.46E-04	6.59E-05	8.57E-05	1.67E-06	6.38E-07	0.00E+00
Kansas	Mitchell County	20123	U	5.68E-07	5.68E-07	5.68E-07	1.75E-05	1.75E-05	3.45E-05	3.45E-05	3.45E-05	1.68E-05	3.00E-07	1.62E-07	3.07E-07	0.00E+00
Kansas	Montgomery County	20125	U	2.22E-04	2.33E-04	2.63E-04	3.64E-04	9.29E-04	9.30E-04	2.21E-03	3.85E-03	5.51E-05	8.70E-04	3.14E-06	7.13E-07	0.00E+00
Kansas	Morris County	20127	R	5.46E-06	5.46E-06	5.46E-06	6.31E-05	6.31E-05	1.21E-04	1.21E-04	1.21E-04	5.99E-05	2.29E-06	7.21E-07	2.16E-07	0.00E+00
Kansas	Morton County	20129	R	2.53E-07	2.53E-07	2.53E-07	2.53E-07	2.53E-07	2.53E-07	2.53E-07	2.53E-07	0.00E+00	1.02E-07	5.11E-08	9.99E-08	0.00E+00
Kansas	Nemaha County	20131	R	1.28E-06	1.28E-06	1.28E-06	2.46E-06	2.38E-05	6.76E-05	6.76E-05	6.76E-05	2.22E-05	6.94E-07	5.30E-07	3.32E-07	0.00E+00
Kansas	Neosho County	20133	U	4.80E-05	4.80E-05	6.40E-05	6.98E-05	6.76E-05	7.17E-05	8.44E-05	8.44E-05	3.76E-05	2.82E-05	1.41E-06	3.62E-07	0.00E+00
Kansas	Ness County	20135	R	3.74E-07	3.74E-07	3.74E-07	3.79E-07	3.79E-07	3.85E-07	3.85E-07	3.85E-07	0.00E+00	1.53E-07	6.81E-08	1.58E-07	0.00E+00
Kansas	Norton County	20137	R	9.01E-07	9.01E-07	9.01E-07	9.01E-07	9.01E-07	9.01E-07	9.01E-07	9.01E-07	0.00E+00	6.97E-07	8.48E-08	1.19E-07	0.00E+00
Kansas	Osage County	20139	R	2.96E-06	2.96E-06	4.01E-06	5.20E-06	5.16E-05	1.22E-04	1.24E-04	1.24E-04	4.81E-05	1.83E-06	1.41E-06	3.40E-07	0.00E+00
Kansas	Osborne County	20141	R	3.27E-07	3.27E-07	3.27E-07	3.27E-07	3.27E-07	3.27E-07	3.27E-07	3.27E-07	0.00E+00	1.26E-07	8.72E-08	1.15E-07	0.00E+00
Kansas	Ottawa County	20143	R	1.35E-05	1.35E-05	1.35E-05	2.28E-05	2.28E-05	3.21E-05	3.21E-05	3.21E-05	1.06E-05	1.16E-05	4.37E-07	1.95E-07	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Kansas	Pawnee County	20145	U	3.84E-07	3.84E-07	3.84E-07	1.05E-06	1.05E-06	1.72E-06	1.72E-06	1.72E-06	0.00E+00	6.23E-07	2.33E-07	1.95E-07	0.00E+00
Kansas	Phillips County	20147	R	3.75E-06	3.75E-06	3.75E-06	7.14E-06	2.23E-05	5.61E-05	5.61E-05	5.61E-05	0.00E+00	2.18E-05	2.66E-07	2.36E-07	0.00E+00
Kansas	Pottawatomie County	20149	R	3.99E-05	3.99E-05	8.70E-05	1.52E-04	1.34E-04	1.81E-04	1.92E-04	1.92E-04	1.31E-04	1.48E-06	1.30E-06	4.03E-07	0.00E+00
Kansas	Pratt County	20151	U	6.42E-06	6.42E-06	6.42E-06	6.44E-06	6.44E-06	6.45E-06	6.45E-06	6.45E-06	0.00E+00	3.43E-06	1.98E-06	1.03E-06	0.00E+00
Kansas	Rawlins County	20153	R	2.40E-07	2.40E-07	2.40E-07	2.40E-07	2.40E-07	2.40E-07	2.40E-07	2.40E-07	0.00E+00	5.64E-08	7.56E-08	1.08E-07	0.00E+00
Kansas	Reno County	20155	U	3.26E-05	5.39E-05	9.93E-05	1.39E-04	1.25E-04	1.59E-04	1.65E-04	1.72E-04	5.29E-05	6.75E-05	3.67E-06	5.53E-07	0.00E+00
Kansas	Republic County	20157	R	3.98E-05	3.98E-05	3.98E-05	4.22E-05	1.12E-04	2.55E-04	2.55E-04	2.55E-04	3.79E-05	7.40E-05	2.46E-07	2.91E-07	0.00E+00
Kansas	Rice County	20159	R	2.58E-04	2.58E-04	2.58E-04	4.63E-04	1.10E-03	2.57E-03	2.57E-03	2.57E-03	6.60E-06	1.09E-03	6.19E-07	3.36E-07	0.00E+00
Kansas	Riley County	20161	U	2.25E-04	2.43E-04	2.82E-04	3.11E-04	3.47E-04	3.88E-04	4.55E-04	6.60E-04	3.31E-04	8.18E-06	7.25E-06	1.03E-06	0.00E+00
Kansas	Rooks County	20163	R	5.75E-07	5.75E-07	5.75E-07	6.29E-07	6.29E-07	6.82E-07	6.82E-07	6.82E-07	0.00E+00	3.38E-07	1.72E-07	1.18E-07	0.00E+00
Kansas	Rush County	20165	R	7.61E-07	7.61E-07	7.61E-07	7.72E-07	7.72E-07	7.84E-07	7.84E-07	7.84E-07	0.00E+00	3.29E-07	2.55E-07	1.89E-07	0.00E+00
Kansas	Russell County	20167	U	5.01E-07	5.01E-07	5.01E-07	1.11E-06	1.11E-06	1.71E-06	1.71E-06	1.71E-06	0.00E+00	5.11E-07	4.46E-07	1.50E-07	0.00E+00
Kansas	Saline County	20169	U	3.63E-05	5.08E-05	6.30E-05	1.42E-04	1.53E-04	1.81E-04	1.99E-04	5.07E-04	2.89E-06	1.46E-04	3.26E-06	8.50E-07	0.00E+00
Kansas	Scott County	20171	U	2.43E-07	2.43E-07	2.43E-07	2.43E-07	2.43E-07	2.43E-07	2.43E-07	2.43E-07	0.00E+00	1.02E-07	3.20E-08	1.08E-07	0.00E+00
Kansas	Sedgwick County	20173	U	7.73E-05	1.08E-04	1.61E-04	2.25E-04	2.95E-04	3.24E-04	5.14E-04	8.01E-04	2.44E-04	4.16E-05	8.64E-06	1.17E-06	0.00E+00
Kansas	Seward County	20175	U	1.53E-05	1.53E-05	5.30E-05	5.90E-05	1.13E-04	1.14E-04	3.26E-04	3.26E-04	0.00E+00	1.11E-04	1.96E-06	4.79E-07	0.00E+00
Kansas	Shawnee County	20177	U	2.66E-04	2.72E-04	3.66E-04	5.17E-04	5.27E-04	6.44E-04	8.02E-04	8.38E-04	4.99E-04	1.71E-05	9.75E-06	9.46E-07	0.00E+00
Kansas	Sheridan County	20179	R	1.20E-06	1.20E-06	1.20E-06	1.23E-06	1.23E-06	1.25E-06	1.25E-06	1.25E-06	0.00E+00	5.41E-07	4.33E-07	2.53E-07	0.00E+00
Kansas	Sherman County	20181	U	1.53E-06	1.53E-06	1.53E-06	1.54E-06	1.54E-06	1.54E-06	1.54E-06	1.54E-06	0.00E+00	7.64E-07	6.10E-07	1.62E-07	0.00E+00
Kansas	Smith County	20183	R	2.69E-06	2.69E-06	2.69E-06	2.76E-06	2.76E-06	2.82E-06	2.82E-06	2.82E-06	0.00E+00	1.88E-06	6.10E-07	2.63E-07	0.00E+00
Kansas	Stafford County	20185	R	5.42E-07	5.42E-07	5.42E-07	7.83E-07	7.83E-07	1.02E-06	1.02E-06	1.02E-06	0.00E+00	2.91E-07	2.09E-07	2.84E-07	0.00E+00
Kansas	Stanton County	20187	R	2.65E-07	2.65E-07	2.65E-07	2.65E-07	2.65E-07	2.65E-07	2.65E-07	2.65E-07	0.00E+00	7.08E-08	3.58E-08	1.58E-07	0.00E+00
Kansas	Stevens County	20189	U	2.40E-06	2.40E-06	2.40E-06	2.42E-06	2.42E-06	2.43E-06	2.43E-06	2.43E-06	0.00E+00	2.11E-06	1.07E-07	2.04E-07	0.00E+00
Kansas	Sumner County	20191	R	6.80E-06	6.80E-06	1.74E-05	4.16E-05	3.90E-05	6.07E-05	6.62E-05	6.62E-05	2.51E-05	1.20E-05	1.53E-06	4.19E-07	0.00E+00
Kansas	Thomas County	20193	U	1.42E-06	1.42E-06	1.42E-06	1.43E-06	1.43E-06	1.45E-06	1.45E-06	1.45E-06	0.00E+00	5.18E-07	7.04E-07	2.13E-07	0.00E+00
Kansas	Trego County	20195	R	6.89E-07	6.89E-07	6.89E-07	6.89E-07	6.89E-07	6.89E-07	6.89E-07	6.89E-07	0.00E+00	1.05E-07	4.20E-07	1.63E-07	0.00E+00
Kansas	Wabaunsee County	20197	R	1.50E-04	1.50E-04	1.50E-04	2.09E-04	2.09E-04	2.69E-04	2.69E-04	2.69E-04	2.08E-04	6.51E-07	8.73E-07	1.86E-07	0.00E+00
Kansas	Wallace County	20199	R	1.32E-07	1.32E-07	1.32E-07	1.32E-07	1.32E-07	1.32E-07	1.32E-07	1.32E-07	0.00E+00	3.54E-08	2.88E-08	6.73E-08	0.00E+00
Kansas	Washington County	20201	R	2.44E-04	2.44E-04	2.44E-04	3.39E-04	3.39E-04	4.34E-04	4.34E-04	4.34E-04	9.71E-06	3.29E-04	1.92E-07	2.23E-07	0.00E+00
Kansas	Wichita County	20203	R	2.11E-07	2.11E-07	2.11E-07	2.11E-07	2.11E-07	2.11E-07	2.11E-07	2.11E-07	0.00E+00	4.80E-08	3.51E-08	1.28E-07	0.00E+00
Kansas	Wilson County	20205	U	2.96E-05	2.96E-05	3.02E-05	4.02E-05	1.02E-04	1.74E-04	2.98E-04	2.98E-04	3.62E-05	6.47E-05	4.45E-07	5.31E-07	0.00E+00
Kansas	Woodson County	20207	R	2.86E-05	2.86E-05	2.86E-05	3.27E-05	3.27E-05	3.68E-05	3.68E-05	3.68E-05	3.08E-05	9.63E-07	6.34E-07	2.81E-07	0.00E+00
Kansas	Wyandotte County	20209	U	1.83E-03	2.15E-03	3.06E-03	4.50E-03	7.98E-03	6.05E-03	8.90E-03	1.75E-02	2.31E-04	7.73E-03	2.26E-05	3.91E-06	0.00E+00
Kentucky	Statewide	N/A	N/A	1.39E-05	2.72E-05	1.34E-04	5.40E-04	5.25E-03	2.56E-03	6.89E-03	1.59E-02	4.05E-03	1.19E-03	9.62E-06	4.89E-06	0.00E+00
Kentucky	All Urban Counties	N/A	U	1.40E-04	2.01E-04	3.37E-04	1.47E-03	7.97E-03	3.56E-03	8.33E-03	1.68E-02	5.94E-03	2.01E-03	1.63E-05	8.00E-06	0.00E+00
Kentucky	All Rural Counties	N/A	R	5.23E-06	1.37E-05	3.50E-05	1.68E-04	2.36E-03	7.11E-04	4.11E-03	1.35E-02	2.04E-03	3.18E-04	2.58E-06	1.61E-06	0.00E+00
Kentucky	Adair County	21001	R	5.12E-06	5.12E-06	8.27E-06	3.41E-05	1.77E-04	4.39E-04	5.39E-04	5.39E-04	1.52E-06	1.74E-04	1.10E-06	2.84E-07	0.00E+00
Kentucky	Allen County	21003	R	3.82E-04	3.82E-04	4.77E-04	6.73E-04	1.13E-03	1.64E-03	2.91E-03	2.91E-03	3.22E-05	1.09E-03	1.87E-06	4.10E-07	0.00E+00
Kentucky	Anderson County	21005	R	1.51E-04	1.51E-04	2.09E-04	2.70E-04	3.86E-04	5.64E-04	8.55E-04	8.55E-04	1.55E-04	2.27E-04	3.40E-06	3.50E-07	0.00E+00
Kentucky	Ballard County	21007	R	4.94E-02	4.94E-02	4.94E-02	7.34E-02	8.26E-02	1.25E-01	1.25E-01	1.25E-01	8.26E-02	7.86E-06	1.16E-06	8.27E-06	0.00E+00
Kentucky	Barren County	21009	R	1.34E-04	5.30E-04	9.88E-04	1.29E-03	2.37E-03	3.29E-03	6.54E-03	9.16E-03	0.00E+00	2.37E-03	3.15E-06	4.25E-07	0.00E+00
Kentucky	Bath County	21011	R	8.14E-06	8.14E-06	8.14E-06	1.76E-05	4.06E-05	9.60E-05	9.60E-05	9.60E-05	5.85E-06	3.28E-05	1.68E-06	2.58E-07	0.00E+00
Kentucky	Bell County	21013	R	1.00E-05	1.31E-05	1.87E-05	2.17E-05	2.28E-05	2.66E-05	3.45E-05	4.10E-05	1.15E-05	8.31E-06	2.79E-06	2.12E-07	0.00E+00
Kentucky	Boone County	21015	U	8.54E-04	1.33E-03	1.50E-03	1.95E-03	1.87E-03	2.14E-03	2.58E-03	2.58E-03	4.32E-04	1.42E-03	1.38E-05	8.51E-06	0.00E+00
Kentucky	Bourbon County	21017	U	7.55E-05	7.55E-05	1.01E-04	1.56E-04	1.44E-04	1.85E-04	1.90E-04	1.90E-04	4.67E-05	9.26E-05	4.17E-06	5.42E-07	0.00E+00
Kentucky	Boyd County	21019	U	1.84E-02	2.90E-02	3.64E-02	7.97E-02	1.12E-01	1.80E-01	2.20E-01	3.35E-01	9.59E-02	1.58E-02	8.03E-06	1.65E-05	0.00E+00
Kentucky	Boyle County	21021	U	3.37E-04	3.37E-04	4.52E-04	5.64E-04	5.80E-04	6.57E-04	9.92E-04	9.92E-04	8.91E-05	4.86E-04	3.97E-06	7.22E-07	0.00E+00
Kentucky	Bracken County	21023	R	5.09E-05	5.09E-05	5.09E-05	7.39E-05	9.01E-05	1.46E-04	1.46E-04	1.46E-04	3.41E-05	5.13E-05	1.70E-06	2.99E-06	0.00E+00
Kentucky	Breathitt County	21025	R	3.57E-06	3.57E-06	3.66E-06	4.05E-06	4.05E-06	5.09E-06	8.00E-06	8.00E-06	0.00E+00	3.18E-06	1.78E-06	9.30E-08	0.00E+00
Kentucky	Breckinridge County	21027	R	1.82E-03	1.82E-03	4.11E-03	5.90E-03	6.05E-03	7.73E-03	1.07E-02	1.07E-02	5.98E-03	5.52E-05	1.07E-06	4.38E-06	0.00E+00
Kentucky	Bullitt County	21029	U	2.98E-04	3.36E-04	5.47E-04	8.33E-04	9.43E-04	1.36E-03	1.47E-03	1.83E-03	6.84E-04	2.46E-04	9.88E-06	3.20E-06	0.00E+00
Kentucky	Butler County	21031	R	3.93E-04	3.93E-04	7.40E-04	3.40E-03	3.08E-03	5.35E-03	5.51E-03	5.51E-03	2.46E-03	6.19E-04	1.05E-06	3.23E-07	0.00E+00
Kentucky	Caldwell County	21033	U	5.08E-05	5.08E-05	5.08E-05	5.59E-05	1.69E-04	4.00E-04	4.00E-04	4.00E-04	1.23E-05	1.54E-04	1.76E-06	9.37E-07	0.00E+00
Kentucky	Calloway County	21035	R	1.41E-05	1.41E-05	2.70E-05	4.42E-05	4.42E-05	6.03E-05	7.65E-05	7.65E-05	7.65E-06	3.07E-05	3.52E-06	2.33E-06	0.00E+00

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Kentucky	Campbell County	21037	U	5.86E-04	8.56E-04	2.84E-03	6.08E-03	8.51E-03	7.97E-03	8.93E-03	1.96E-02	9.33E-04	7.54E-03	2.88E-05	1.28E-05	0.00E+00
Kentucky	Carlisle County	21039	R	3.14E-02	3.14E-02	3.14E-02	3.20E-02	3.68E-02	4.69E-02	4.69E-02	4.69E-02	3.67E-02	5.05E-06	1.11E-06	6.30E-06	0.00E+00
Kentucky	Carroll County	21041	R	3.30E-04	3.30E-04	3.30E-04	3.60E-04	4.06E-04	5.29E-04	5.29E-04	5.29E-04	1.14E-04	2.76E-04	2.74E-06	1.34E-05	0.00E+00
Kentucky	Carter County	21043	U	2.28E-04	2.28E-04	5.58E-03	5.90E-03	6.32E-03	9.22E-03	9.53E-03	9.53E-03	5.75E-03	5.73E-04	3.51E-06	1.28E-06	0.00E+00
Kentucky	Casey County	21045	R	4.65E-05	4.65E-05	3.87E-04	4.68E-04	4.22E-04	5.59E-04	6.51E-04	6.51E-04	1.68E-05	4.04E-04	1.48E-06	2.77E-07	0.00E+00
Kentucky	Christian County	21047	U	2.73E-05	5.02E-05	7.07E-05	1.09E-04	1.38E-04	1.43E-04	2.30E-04	6.04E-04	1.66E-05	1.14E-04	5.90E-06	1.03E-06	0.00E+00
Kentucky	Clark County	21049	U	4.90E-05	4.90E-05	1.02E-04	1.67E-04	1.46E-04	1.84E-04	2.14E-04	2.14E-04	7.54E-05	6.39E-05	6.35E-06	6.59E-07	0.00E+00
Kentucky	Clay County	21051	R	4.83E-06	4.83E-06	1.94E-05	2.83E-05	2.62E-05	3.75E-05	3.88E-05	3.88E-05	1.81E-05	5.66E-06	2.28E-06	1.29E-07	0.00E+00
Kentucky	Clinton County	21053	R	3.04E-05	3.04E-05	3.04E-05	3.75E-05	3.75E-05	4.46E-05	4.46E-05	4.46E-05	1.23E-06	3.41E-05	1.42E-06	8.11E-07	0.00E+00
Kentucky	Crittenden County	21055	R	5.82E-04	5.82E-04	7.40E-04	9.22E-04	1.39E-03	2.04E-03	3.13E-03	3.13E-03	1.37E-06	1.37E-03	8.95E-07	6.28E-06	0.00E+00
Kentucky	Cumberland County	21057	R	2.90E-05	2.90E-05	2.90E-05	2.98E-05	2.98E-05	3.06E-05	3.06E-05	3.06E-05	3.28E-07	2.84E-05	6.09E-07	4.57E-07	0.00E+00
Kentucky	Daviess County	21059	U	1.24E-03	1.62E-03	1.97E-03	2.37E-03	2.45E-03	2.67E-03	2.85E-03	3.73E-03	1.32E-03	1.12E-03	6.26E-06	6.54E-06	0.00E+00
Kentucky	Edmonson County	21061	R	1.68E-03	1.68E-03	1.68E-03	2.56E-03	3.12E-03	5.11E-03	5.11E-03	5.11E-03	1.28E-03	1.83E-03	2.03E-06	4.00E-07	0.00E+00
Kentucky	Elliott County	21063	R	1.89E-04	1.89E-04	1.89E-04	2.02E-04	2.02E-04	2.15E-04	2.15E-04	2.15E-04	4.49E-05	1.56E-04	1.04E-06	2.25E-07	0.00E+00
Kentucky	Estill County	21065	R	2.20E-05	2.20E-05	2.20E-05	2.66E-05	2.71E-05	3.22E-05	3.32E-05	3.32E-05	1.28E-05	1.29E-05	1.24E-06	1.32E-07	0.00E+00
Kentucky	Fayette County	21067	U	2.04E-04	2.13E-04	2.29E-04	2.48E-04	2.60E-04	2.70E-04	3.20E-04	3.40E-04	9.73E-05	1.50E-04	1.20E-05	1.42E-06	0.00E+00
Kentucky	Fleming County	21069	R	8.10E-05	8.10E-05	1.03E-04	1.53E-04	1.57E-04	2.11E-04	2.41E-04	2.41E-04	1.35E-04	1.99E-05	1.40E-06	1.24E-06	0.00E+00
Kentucky	Floyd County	21071	R	1.31E-05	1.34E-05	1.63E-05	1.74E-05	1.82E-05	2.04E-05	2.46E-05	2.78E-05	0.00E+00	1.53E-05	2.62E-06	2.92E-07	0.00E+00
Kentucky	Franklin County	21073	U	1.28E-04	1.55E-04	2.21E-04	2.95E-04	2.75E-04	3.16E-04	3.61E-04	3.99E-04	1.69E-04	9.62E-05	8.80E-06	9.96E-07	0.00E+00
Kentucky	Fulton County	21075	R	7.98E-05	7.98E-05	7.98E-05	9.46E-05	9.46E-05	1.09E-04	1.09E-04	1.09E-04	3.04E-05	5.63E-05	8.82E-07	7.00E-06	0.00E+00
Kentucky	Gallatin County	21077	U	7.86E-04	7.86E-04	7.86E-04	7.86E-04	7.86E-04	7.86E-04	7.86E-04	7.86E-04	1.36E-04	6.36E-04	5.00E-06	9.20E-06	0.00E+00
Kentucky	Garrard County	21079	R	7.15E-05	7.15E-05	8.05E-05	8.96E-05	9.09E-05	1.01E-04	1.13E-04	1.13E-04	7.07E-05	1.75E-05	2.41E-06	2.87E-07	0.00E+00
Kentucky	Grant County	21081	U	3.03E-04	3.03E-04	3.55E-04	4.55E-04	4.55E-04	5.06E-04	6.09E-04	6.09E-04	1.11E-04	3.37E-04	4.81E-06	2.59E-06	0.00E+00
Kentucky	Graves County	21083	R	6.25E-05	6.25E-05	7.55E-05	8.60E-05	2.54E-03	9.24E-05	1.42E-02	1.42E-02	2.47E-03	6.12E-05	2.64E-06	1.36E-06	0.00E+00
Kentucky	Grayson County	21085	R	4.81E-03	4.81E-03	5.34E-03	1.22E-02	1.30E-02	1.35E-02	3.63E-02	3.63E-02	1.19E-02	1.10E-03	1.51E-06	4.43E-07	0.00E+00
Kentucky	Green County	21087	R	5.57E-05	5.57E-05	2.19E-04	4.06E-04	3.28E-04	4.37E-04	4.43E-04	4.43E-04	8.37E-07	3.26E-04	1.14E-06	1.80E-07	0.00E+00
Kentucky	Greenup County	21089	U	5.09E-03	5.09E-03	1.84E-02	7.12E-02	1.93E-01	3.02E-01	8.23E-01	8.23E-01	1.13E-03	4.90E-06	1.13E-05	1.18E-05	0.00E+00
Kentucky	Hancock County	21091	R	2.61E-03	2.61E-03	2.61E-03	2.65E-03	3.73E-03	5.93E-03	5.93E-03	5.93E-03	3.46E-03	2.46E-04	1.62E-06	1.79E-05	0.00E+00
Kentucky	Hardin County	21093	R	1.40E-04	1.68E-04	1.87E-04	2.15E-04	6.70E-04	4.65E-04	2.43E-03	2.76E-03	5.26E-04	1.33E-04	5.65E-06	5.66E-06	0.00E+00
Kentucky	Harlan County	21095	R	8.19E-06	1.03E-05	1.29E-05	2.35E-05	4.37E-05	5.59E-05	1.14E-04	1.58E-04	2.76E-06	3.85E-05	2.30E-06	1.35E-07	0.00E+00
Kentucky	Harrison County	21097	R	1.99E-04	1.99E-04	2.12E-04	2.41E-04	3.36E-04	2.73E-04	7.57E-04	7.57E-04	2.31E-05	3.10E-04	2.66E-06	9.07E-07	0.00E+00
Kentucky	Hart County	21099	R	9.68E-05	9.68E-05	1.41E-04	7.89E-04	1.05E-03	1.36E-03	2.88E-03	2.88E-03	5.46E-04	5.05E-04	2.43E-06	3.46E-07	0.00E+00
Kentucky	Henderson County	21101	U	1.28E-03	1.32E-03	1.51E-03	1.69E-03	2.22E-03	2.00E-03	2.04E-03	7.96E-03	1.66E-03	5.26E-04	1.66E-05	1.33E-05	0.00E+00
Kentucky	Henry County	21103	R	1.32E-04	1.32E-04	1.43E-04	1.56E-04	1.60E-04	1.76E-04	1.95E-04	1.95E-04	8.01E-05	7.50E-05	2.87E-06	1.51E-06	0.00E+00
Kentucky	Hickman County	21105	R	5.47E-05	5.47E-05	5.47E-05	5.47E-05	5.47E-05	5.47E-05	5.47E-05	5.47E-05	1.36E-07	4.81E-05	9.20E-07	5.59E-06	0.00E+00
Kentucky	Hopkins County	21107	R	1.92E-05	9.81E-05	2.86E-04	3.29E-04	3.50E-04	4.73E-04	5.78E-04	6.33E-04	2.76E-04	7.00E-05	3.19E-06	6.99E-07	0.00E+00
Kentucky	Jackson County	21109	R	1.37E-05	1.37E-05	1.37E-05	3.30E-05	3.45E-05	5.69E-05	5.69E-05	5.69E-05	2.21E-05	1.06E-05	1.74E-06	1.37E-07	0.00E+00
Kentucky	Jefferson County	21111	U	6.25E-04	7.56E-04	1.14E-03	2.11E-03	3.08E-03	3.88E-03	5.75E-03	9.19E-03	2.10E-03	9.53E-04	2.30E-05	1.24E-05	0.00E+00
Kentucky	Jessamine County	21113	U	1.17E-04	1.17E-04	1.85E-04	1.98E-04	2.06E-04	2.42E-04	2.81E-04	2.81E-04	1.35E-04	6.49E-05	5.57E-06	6.23E-07	0.00E+00
Kentucky	Johnson County	21115	R	1.95E-05	1.95E-05	2.49E-05	3.09E-05	2.93E-05	3.48E-05	3.50E-05	3.50E-05	2.11E-05	5.85E-06	1.96E-06	4.13E-07	0.00E+00
Kentucky	Kenton County	21117	U	1.52E-03	1.58E-03	2.91E-03	3.32E-03	4.96E-03	4.38E-03	1.04E-02	1.46E-02	6.89E-04	4.23E-03	3.21E-05	1.33E-05	0.00E+00
Kentucky	Knott County	21119	R	4.76E-06	4.76E-06	5.01E-06	2.05E-05	1.49E-05	2.09E-05	2.33E-05	2.33E-05	0.00E+00	1.29E-05	1.79E-06	1.70E-07	0.00E+00
Kentucky	Knox County	21121	R	2.84E-05	2.84E-05	3.37E-05	5.32E-05	1.09E-04	7.44E-05	4.72E-04	4.72E-04	9.34E-05	1.25E-05	2.96E-06	2.28E-07	0.00E+00
Kentucky	Larue County	21123	R	9.83E-05	9.83E-05	9.83E-05	4.66E-04	3.44E-04	4.69E-04	4.69E-04	4.69E-04	9.29E-06	3.33E-04	2.00E-06	2.57E-07	0.00E+00
Kentucky	Laurel County	21125	R	8.77E-05	1.01E-04	1.01E-04	1.88E-04	1.81E-04	2.28E-04	2.29E-04	3.62E-04	1.33E-04	4.13E-05	5.55E-06	6.81E-07	0.00E+00
Kentucky	Lawrence County	21127	R	2.18E-04	2.18E-04	2.58E-04	2.60E-04	2.63E-03	5.40E-03	6.99E-03	6.99E-03	2.35E-03	2.74E-04	1.39E-06	1.33E-06	0.00E+00
Kentucky	Lee County	21129	R	4.00E-06	4.00E-06	4.00E-06	7.84E-06	7.08E-06	9.39E-06	9.39E-06	9.39E-06	5.82E-07	5.43E-06	9.65E-07	1.01E-07	0.00E+00
Kentucky	Leslie County	21131	R	4.53E-06	4.53E-06	4.53E-06	5.14E-06	5.04E-06	5.44E-06	5.44E-06	5.44E-06	7.18E-08	3.27E-06	1.61E-06	8.78E-08	0.00E+00
Kentucky	Letcher County	21133	R	2.01E-05	2.01E-05	2.40E-05	3.05E-05	3.49E-05	4.89E-05	5.54E-05	5.54E-05	6.13E-07	3.19E-05	2.15E-06	2.61E-07	0.00E+00
Kentucky	Lewis County	21135	R	6.11E-05	6.11E-05	6.25E-05	8.31E-05	2.56E-03	5.05E-03	1.00E-02	1.00E-02	2.47E-03	7.94E-05	1.20E-06	6.65E-06	0.00E+00
Kentucky	Lincoln County	21137	R	1.68E-04	1.68E-04	1.91E-04	2.56E-04	2.61E-04	3.30E-04	3.63E-04	3.63E-04	5.30E-05	2.05E-04	2.26E-06	3.27E-07	0.00E+00
Kentucky	Livingston County	21139	R	1.63E-02	1.63E-02	1.63E-02	2.31E-02	2.31E-02	2.99E-02	2.99E-02	2.99E-02	2.04E-02	2.67E-03	2.09E-06	6.69E-06	0.00E+00
Kentucky	Logan County	21141	R	2.92E-04	2.92E-04	5.70E-04	9.09E-04	7.91E-04	1.03E-03	1.04E-03	1.04E-03	4.40E-05	7.45E-04	2.18E-06	4.42E-07	0.00E+00
Kentucky	Lyon County	21143	R	4.98E-05	4.98E-05	4.98E-05	1.90E-04	1.90E-04	3.29E-04	3.29E-04	3.29E-04	1.71E-05	1.68E-04	2.73E-06	2.00E-06	0.00E+00

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State	County	FIPS	Urban or Rural	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
Kentucky	McCracken County	21145	R	1.10E-02	1.29E-02	1.66E-02	2.04E-02	2.10E-02	2.24E-02	2.52E-02	4.70E-02	2.04E-02	6.27E-04	5.31E-06	5.06E-06	0.00E+00
Kentucky	McCreary County	21147	R	1.17E-04	1.17E-04	1.18E-04	1.43E-04	1.55E-04	1.92E-04	2.19E-04	2.19E-04	2.58E-05	1.27E-04	2.06E-06	4.46E-07	0.00E+00
Kentucky	McLean County	21149	R	4.29E-04	4.29E-04	4.96E-04	5.74E-04	5.59E-04	6.22E-04	6.59E-04	6.59E-04	2.83E-04	2.73E-04	1.34E-06	9.90E-07	0.00E+00
Kentucky	Madison County	21151	U	7.42E-05	8.04E-05	1.31E-04	1.67E-04	2.47E-04	1.94E-04	7.90E-04	8.69E-04	9.47E-05	1.45E-04	6.56E-06	5.23E-07	0.00E+00
Kentucky	Magoffin County	21153	R	3.68E-06	3.68E-06	4.12E-06	4.80E-06	4.63E-06	5.14E-06	5.23E-06	5.23E-06	0.00E+00	2.98E-06	1.55E-06	9.68E-08	0.00E+00
Kentucky	Marion County	21155	R	7.52E-04	7.52E-04	9.46E-04	1.75E-03	2.80E-03	5.14E-03	6.46E-03	6.46E-03	1.93E-05	2.78E-03	1.45E-06	2.00E-07	0.00E+00
Kentucky	Marshall County	21157	R	3.86E-05	3.86E-05	8.99E-05	1.61E-04	2.21E-03	1.83E-04	1.26E-02	1.26E-02	1.91E-03	2.97E-04	3.38E-06	2.53E-06	0.00E+00
Kentucky	Martin County	21159	R	1.09E-05	1.09E-05	1.09E-05	3.87E-05	3.02E-05	4.09E-05	4.09E-05	4.09E-05	1.86E-05	7.86E-06	1.75E-06	1.92E-06	0.00E+00
Kentucky	Mason County	21161	U	9.20E-05	9.20E-05	1.34E-04	4.20E-04	6.83E-04	4.32E-04	2.34E-03	2.34E-03	4.53E-04	2.14E-04	2.58E-06	1.28E-05	0.00E+00
Kentucky	Meade County	21163	R	1.33E-04	1.33E-04	2.49E-04	2.90E-04	7.20E-04	3.03E-04	2.63E-03	2.63E-03	6.60E-04	4.79E-05	3.64E-06	8.89E-06	0.00E+00
Kentucky	Menifee County	21165	R	6.48E-06	6.48E-06	6.48E-06	7.78E-06	7.78E-06	9.09E-06	9.09E-06	9.09E-06	0.00E+00	6.77E-06	9.19E-07	9.40E-08	0.00E+00
Kentucky	Mercer County	21167	R	6.39E-04	6.39E-04	6.42E-04	7.05E-04	7.27E-04	7.39E-04	9.09E-04	9.09E-04	1.26E-04	5.97E-04	2.62E-06	4.05E-07	0.00E+00
Kentucky	Metcalfe County	21169	R	7.54E-05	7.54E-05	7.54E-05	1.09E-04	1.07E-04	1.38E-04	1.38E-04	1.38E-04	3.44E-07	1.06E-04	1.05E-06	2.15E-07	0.00E+00
Kentucky	Monroe County	21171	R	6.96E-05	6.96E-05	8.00E-05	1.17E-04	1.13E-04	1.47E-04	1.51E-04	1.51E-04	0.00E+00	1.12E-04	6.87E-07	4.87E-07	0.00E+00
Kentucky	Montgomery County	21173	R	2.88E-05	2.88E-05	4.13E-05	6.31E-05	9.53E-05	6.93E-05	2.74E-04	2.74E-04	9.11E-06	8.35E-05	2.53E-06	2.22E-07	0.00E+00
Kentucky	Morgan County	21175	R	3.27E-06	3.27E-06	3.55E-06	5.04E-06	7.89E-06	5.32E-06	2.23E-05	2.23E-05	3.72E-06	2.85E-06	1.24E-06	9.03E-08	0.00E+00
Kentucky	Muhlenberg County	21177	R	1.42E-04	1.42E-04	1.70E-04	1.86E-04	2.69E-04	4.01E-04	4.43E-04	4.43E-04	2.22E-04	4.57E-05	1.61E-06	3.40E-07	0.00E+00
Kentucky	Nelson County	21179	R	4.45E-04	4.45E-04	5.88E-04	7.33E-04	1.14E-03	1.02E-03	3.48E-03	3.48E-03	8.00E-05	1.06E-03	3.26E-06	5.16E-07	0.00E+00
Kentucky	Nicholas County	21181	R	2.02E-04	2.02E-04	2.02E-04	2.33E-04	2.33E-04	2.64E-04	2.64E-04	2.64E-04	1.81E-04	4.93E-05	1.71E-06	9.23E-07	0.00E+00
Kentucky	Ohio County	21183	R	3.40E-04	3.40E-04	2.23E-03	3.48E-03	3.17E-03	3.52E-03	6.19E-03	6.19E-03	3.10E-03	7.31E-05	1.11E-06	8.59E-07	0.00E+00
Kentucky	Oldham County	21185	U	3.71E-04	4.55E-04	4.95E-04	5.59E-04	6.26E-04	8.03E-04	8.71E-04	1.04E-03	3.69E-04	2.44E-04	5.91E-06	6.60E-06	0.00E+00
Kentucky	Owen County	21187	R	9.34E-05	9.34E-05	9.34E-05	2.15E-04	1.78E-04	2.25E-04	2.25E-04	2.25E-04	7.36E-05	1.01E-04	1.77E-06	1.33E-06	0.00E+00
Kentucky	Owsley County	21189	R	3.47E-06	3.47E-06	3.47E-06	4.08E-06	4.08E-06	4.68E-06	4.68E-06	4.68E-06	0.00E+00	2.83E-06	1.17E-06	7.16E-08	0.00E+00
Kentucky	Pendleton County	21191	U	2.34E-04	2.34E-04	2.34E-04	2.87E-04	2.86E-04	3.37E-04	3.37E-04	3.37E-04	6.77E-05	2.11E-04	2.93E-06	4.01E-06	0.00E+00
Kentucky	Perry County	21193	R	5.90E-06	5.90E-06	7.38E-06	1.11E-05	1.53E-05	1.44E-05	4.30E-05	4.30E-05	0.00E+00	1.28E-05	2.35E-06	1.62E-07	0.00E+00
Kentucky	Pike County	21195	R	1.72E-05	1.90E-05	2.30E-05	2.82E-05	3.68E-05	4.51E-05	7.04E-05	9.31E-05	6.34E-07	3.30E-05	2.24E-06	9.07E-07	0.00E+00
Kentucky	Powell County	21197	R	1.82E-05	1.82E-05	1.82E-05	2.47E-05	2.47E-05	3.11E-05	3.11E-05	3.11E-05	8.74E-06	1.42E-05	1.57E-06	1.23E-07	0.00E+00
Kentucky	Pulaski County	21199	R	9.27E-05	1.02E-04	1.92E-04	2.89E-04	3.47E-04	5.64E-04	5.94E-04	7.19E-04	6.20E-05	2.80E-04	4.59E-06	1.09E-06	0.00E+00
Kentucky	Robertson County	21201	R	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	1.87E-04	2.99E-05	1.24E-06	2.26E-06	0.00E+00
Kentucky	Rockcastle County	21203	R	7.45E-05	7.45E-05	9.58E-05	1.18E-04	1.12E-04	1.29E-04	1.38E-04	1.38E-04	4.08E-05	6.70E-05	4.29E-06	2.68E-07	0.00E+00
Kentucky	Rowan County	21205	R	4.85E-06	4.85E-06	9.63E-06	1.65E-05	2.17E-05	3.38E-05	4.89E-05	4.89E-05	9.56E-06	7.62E-06	4.12E-06	4.29E-07	0.00E+00
Kentucky	Russell County	21207	R	5.68E-06	5.68E-06	2.17E-05	3.93E-05	3.33E-05	4.49E-05	4.88E-05	4.88E-05	8.56E-06	2.24E-05	1.52E-06	7.41E-07	0.00E+00
Kentucky	Scott County	21209	U	3.22E-04	3.22E-04	3.29E-04	4.97E-04	5.51E-04	6.43E-04	1.08E-03	1.08E-03	1.19E-04	4.25E-04	7.27E-06	8.20E-07	0.00E+00
Kentucky	Shelby County	21211	R	7.98E-05	7.98E-05	2.09E-04	2.66E-04	2.69E-04	3.92E-04	3.96E-04	3.96E-04	1.68E-04	9.51E-05	4.79E-06	1.13E-06	0.00E+00
Kentucky	Simpson County	21213	R	1.14E-03	1.14E-03	1.27E-03	1.50E-03	1.63E-03	2.00E-03	2.39E-03	2.39E-03	2.43E-04	1.38E-03	4.65E-06	6.40E-07	0.00E+00
Kentucky	Spencer County	21215	R	2.60E-04	2.60E-04	2.60E-04	2.83E-04	2.83E-04	3.06E-04	3.06E-04	3.06E-04	1.68E-04	1.12E-04	2.74E-06	7.30E-07	0.00E+00
Kentucky	Taylor County	21217	R	7.11E-04	7.11E-04	7.51E-04	7.69E-04	8.83E-04	9.99E-04	1.18E-03	1.18E-03	7.53E-06	8.73E-04	2.21E-06	3.35E-07	0.00E+00
Kentucky	Todd County	21219	R	9.96E-05	9.96E-05	1.03E-04	1.13E-04	3.09E-04	5.15E-04	9.09E-04	9.09E-04	2.26E-04	8.04E-05	1.64E-06	3.77E-07	0.00E+00
Kentucky	Trigg County	21221	R	2.79E-05	2.79E-05	2.79E-05	3.25E-05	3.65E-05	4.91E-05	4.91E-05	4.91E-05	1.48E-05	1.86E-05	1.77E-06	1.32E-06	0.00E+00
Kentucky	Trimble County	21223	R	2.62E-04	2.62E-04	2.62E-04	3.07E-04	3.07E-04	3.53E-04	3.53E-04	3.53E-04	1.23E-04	1.71E-04	1.75E-06	1.12E-05	0.00E+00
Kentucky	Union County	21225	R	3.45E-04	3.45E-04	3.45E-04	1.53E-03	1.22E-03	1.80E-03	1.80E-03	1.80E-03	3.59E-04	8.56E-04	1.78E-06	6.91E-06	0.00E+00
Kentucky	Warren County	21227	U	1.49E-03	2.00E-03	4.16E-03	8.04E-03	1.09E-02	1.39E-02	2.30E-02	4.71E-02	1.06E-05	1.09E-02	9.64E-06	1.13E-06	0.00E+00
Kentucky	Washington County	21229	R	1.42E-03	1.42E-03	1.42E-03	1.76E-03	2.07E-03	3.01E-03	3.01E-03	3.01E-03	5.95E-05	2.01E-03	1.28E-06	2.45E-07	0.00E+00
Kentucky	Wayne County	21231	R	5.55E-05	5.55E-05	7.41E-05	8.12E-05	9.43E-05	9.46E-05	1.79E-04	1.79E-04	1.30E-05	7.93E-05	1.41E-06	5.57E-07	0.00E+00
Kentucky	Webster County	21233	R	7.32E-04	7.32E-04	9.77E-04	1.31E-03	1.66E-03	2.35E-03	3.30E-03	3.30E-03	1.39E-03	2.64E-04	1.38E-06	2.00E-06	0.00E+00
Kentucky	Whitley County	21235	R	6.31E-05	6.31E-05	1.09E-04	1.68E-04	2.87E-04	4.53E-04	7.69E-04	7.69E-04	2.38E-04	4.08E-05	6.66E-06	8.38E-07	0.00E+00
Kentucky	Wolfe County	21237	R	2.87E-06	2.87E-06	2.87E-06	3.80E-06	4.41E-06	6.56E-06	6.56E-06	6.56E-06	0.00E+00	3.21E-06	1.13E-06	7.17E-08	0.00E+00
Kentucky	Woodford County	21239	U	5.15E-04	5.15E-04	5.71E-04	8.28E-04	1.63E-03	9.26E-04	5.31E-03	5.31E-03	1.53E-03	9.55E-05	4.71E-06	5.04E-07	0.00E+00
Louisiana	Statewide	N/A	N/A	3.30E-05	5.47E-05	3.14E-04	6.61E-04	9.61E-04	1.09E-03	1.62E-03	2.19E-03	5.90E-04	3.42E-04	8.21E-06	2.13E-05	0.00E+00
Louisiana	All Urban Counties	N/A	U	3.18E-05	5.25E-05	3.64E-04	6.76E-04	7.99E-04	1.08E-03	1.53E-03	1.87E-03	4.84E-04	2.79E-04	9.81E-06	2.68E-05	0.00E+00
Louisiana	All Rural Counties	N/A	R	3.92E-05	6.61E-05	2.63E-04	5.51E-04	1.43E-03	1.10E-03	2.76E-03	4.38E-03	8.95E-04	5.24E-04	3.60E-06	5.74E-06	0.00E+00
Louisiana	Acadia Parish	22001	U	4.26E-06	4.56E-06	6.27E-06	1.54E-05	1.43E-05	2.16E-05	2.31E-05	2.65E-05	2.94E-06	4.86E-06	5.70E-06	8.11E-07	0.00E+00
Louisiana	Allen Parish	22003	R	5.19E-05	5.19E-05	9.52E-05	2.63E-04	2.55E-04	3.19E-04	5.46E-04	5.46E-04	2.51E-04	1.62E-06	1.82E-06	6.11E-07	0.00E+00
Louisiana	Ascension Parish	22005	U	1.55E-04	1.60E-04	1.74E-04	2.19E-04	2.28E-04	2.70E-04	2.88E-04	3.75E-04	9.90E-05	1.05E-04	6.54E-06	1.72E-05	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Louisiana	Assumption Parish	22007	R	2.50E-04	2.50E-04	2.54E-04	3.12E-04	3.71E-04	4.86E-04	6.08E-04	6.08E-04	2.54E-04	1.12E-04	2.38E-06	2.89E-06	0.00E+00
Louisiana	Avoyelles Parish	22009	R	5.48E-05	5.48E-05	1.39E-04	1.94E-04	2.41E-04	2.80E-04	6.80E-04	6.80E-04	1.62E-04	1.47E-05	2.13E-06	6.27E-05	0.00E+00
Louisiana	Beauregard Parish	22011	R	3.85E-04	3.85E-04	4.71E-04	8.18E-04	8.50E-04	1.13E-03	1.49E-03	1.49E-03	7.00E-04	1.47E-04	1.76E-06	6.71E-07	0.00E+00
Louisiana	Bienville Parish	22013	R	4.16E-04	4.16E-04	5.63E-04	7.63E-04	8.60E-04	1.27E-03	1.29E-03	1.29E-03	6.05E-04	2.53E-04	1.23E-06	1.02E-07	0.00E+00
Louisiana	Bossier Parish	22015	U	1.59E-05	1.98E-05	1.41E-03	1.55E-03	1.82E-03	2.40E-03	4.14E-03	6.19E-03	1.43E-03	3.79E-04	9.17E-06	1.16E-06	0.00E+00
Louisiana	Caddo Parish	22017	U	3.94E-05	8.81E-05	1.21E-03	1.32E-03	1.19E-03	1.45E-03	1.60E-03	1.65E-03	1.12E-03	6.42E-05	1.32E-05	1.32E-06	0.00E+00
Louisiana	Calcasieu Parish	22019	U	3.84E-04	4.81E-04	5.68E-04	7.21E-04	1.04E-03	1.59E-03	1.91E-03	2.19E-03	3.90E-04	6.22E-04	8.17E-06	1.91E-05	0.00E+00
Louisiana	Caldwell Parish	22021	R	1.23E-04	1.23E-04	1.23E-04	2.53E-04	2.74E-04	4.48E-04	4.48E-04	4.48E-04	1.56E-04	1.17E-04	9.44E-07	2.34E-07	0.00E+00
Louisiana	Cameron Parish	22023	R	1.86E-04	1.86E-04	1.86E-04	2.65E-04	2.65E-04	3.43E-04	3.43E-04	3.43E-04	6.15E-05	2.00E-04	4.68E-07	2.72E-06	0.00E+00
Louisiana	Catahoula Parish	22025	R	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.34E-03	1.77E-03	1.77E-03	1.77E-03	1.34E-03	2.14E-06	8.23E-07	2.54E-06	0.00E+00
Louisiana	Claiborne Parish	22027	R	8.14E-05	8.14E-05	1.80E-04	2.16E-04	2.53E-04	3.94E-04	3.96E-04	3.96E-04	3.34E-05	2.19E-04	9.72E-07	1.08E-07	0.00E+00
Louisiana	Concordia Parish	22029	R	3.81E-03	3.81E-03	6.56E-03	6.85E-03	2.04E-02	1.19E-02	7.26E-02	7.26E-02	2.03E-02	5.73E-06	1.52E-06	1.24E-05	0.00E+00
Louisiana	De Soto Parish	22031	R	2.51E-04	2.51E-04	4.74E-04	1.13E-03	1.36E-03	2.04E-03	3.72E-03	3.72E-03	1.26E-03	9.67E-05	2.04E-06	5.64E-07	0.00E+00
Louisiana	East Baton Rouge Parish	22033	U	3.10E-04	3.60E-04	4.51E-04	5.39E-04	5.76E-04	6.54E-04	8.28E-04	9.18E-04	1.38E-04	3.62E-04	1.65E-05	5.87E-05	0.00E+00
Louisiana	East Carroll Parish	22035	U	1.01E-05	1.01E-05	1.01E-05	1.48E-05	1.01E-04	2.78E-04	2.78E-04	2.78E-04	3.39E-07	9.10E-05	1.02E-06	8.72E-06	0.00E+00
Louisiana	East Feliciana Parish	22037	R	2.89E-04	2.89E-04	3.03E-04	3.24E-04	3.25E-04	3.46E-04	3.62E-04	3.62E-04	2.35E-04	8.36E-05	2.11E-06	3.85E-06	0.00E+00
Louisiana	Evangeline Parish	22039	R	2.25E-05	2.25E-05	4.13E-05	7.01E-05	7.13E-05	8.11E-05	1.63E-04	1.63E-04	5.32E-05	1.52E-05	2.04E-06	8.70E-07	0.00E+00
Louisiana	Franklin Parish	22041	R	3.04E-06	3.04E-06	3.24E-06	8.65E-06	1.25E-05	1.40E-05	3.76E-05	3.76E-05	5.89E-06	3.91E-06	1.76E-06	9.71E-07	0.00E+00
Louisiana	Grant Parish	22043	R	2.70E-04	2.70E-04	3.98E-04	7.71E-04	6.52E-04	8.32E-04	9.87E-04	9.87E-04	6.02E-04	4.64E-05	2.20E-06	1.13E-06	0.00E+00
Louisiana	Iberia Parish	22045	U	1.57E-05	3.89E-05	6.33E-05	1.41E-04	1.53E-04	1.98E-04	2.54E-04	5.39E-04	1.40E-06	1.44E-04	5.97E-06	1.73E-06	0.00E+00
Louisiana	Iberville Parish	22047	R	1.36E-04	1.36E-04	2.35E-04	3.56E-04	3.76E-04	5.44E-04	6.02E-04	6.02E-04	1.23E-04	1.75E-04	4.27E-06	7.45E-05	0.00E+00
Louisiana	Jackson Parish	22049	R	8.41E-04	8.41E-04	1.54E-03	1.90E-03	2.71E-03	3.55E-03	5.73E-03	5.73E-03	1.98E-03	7.37E-04	1.00E-06	8.73E-08	0.00E+00
Louisiana	Jefferson Parish	22051	U	6.86E-04	7.54E-04	8.96E-04	1.22E-03	1.31E-03	1.50E-03	1.89E-03	2.17E-03	9.49E-04	3.29E-04	1.35E-05	1.40E-05	0.00E+00
Louisiana	Jefferson Davis Parish	22053	U	3.33E-06	3.33E-06	6.51E-06	1.72E-05	3.55E-05	3.53E-05	1.58E-04	1.58E-04	1.41E-05	1.69E-05	3.20E-06	1.24E-06	0.00E+00
Louisiana	Lafayette Parish	22055	U	3.68E-05	4.19E-05	4.71E-05	5.98E-05	5.93E-05	6.61E-05	7.47E-05	8.29E-05	3.91E-06	4.36E-05	9.76E-06	1.96E-06	0.00E+00
Louisiana	Lafourche Parish	22057	R	1.41E-04	4.05E-04	6.91E-04	9.02E-04	3.63E-03	1.40E-03	5.74E-03	8.85E-03	1.12E-04	3.51E-03	3.58E-06	1.54E-06	0.00E+00
Louisiana	La Salle Parish	22059	R	3.99E-04	3.99E-04	3.99E-04	4.25E-04	4.71E-04	5.90E-04	5.90E-04	5.90E-04	4.40E-04	2.76E-05	8.12E-07	2.69E-06	0.00E+00
Louisiana	Lincoln Parish	22061	U	6.24E-04	8.76E-04	1.36E-03	1.64E-03	1.65E-03	2.05E-03	2.27E-03	2.36E-03	1.49E-03	1.61E-04	3.30E-06	3.66E-07	0.00E+00
Louisiana	Livingston Parish	22063	U	3.42E-04	3.77E-04	4.10E-04	4.70E-04	4.71E-04	4.87E-04	5.31E-04	7.47E-04	1.69E-04	2.91E-04	5.31E-06	6.11E-06	0.00E+00
Louisiana	Madison Parish	22065	U	1.18E-03	1.18E-03	1.79E-03	1.82E-03	2.26E-03	1.88E-03	4.64E-03	4.64E-03	2.00E-03	2.49E-04	2.00E-06	1.55E-05	0.00E+00
Louisiana	Morehouse Parish	22067	R	4.90E-04	4.90E-04	6.65E-04	2.23E-03	2.17E-03	3.33E-03	4.38E-03	4.38E-03	1.49E-03	6.71E-04	3.33E-06	4.84E-07	0.00E+00
Louisiana	Natchitoches Parish	22069	R	5.95E-05	5.95E-05	1.06E-04	1.92E-04	2.53E-04	2.02E-04	7.74E-04	7.74E-04	1.21E-04	1.28E-04	2.76E-06	5.07E-07	0.00E+00
Louisiana	Orleans Parish	22071	U	4.85E-04	5.70E-04	6.32E-04	7.04E-04	7.56E-04	7.98E-04	9.61E-04	1.13E-03	3.78E-04	2.99E-04	1.03E-05	6.87E-05	0.00E+00
Louisiana	Ouachita Parish	22073	R	3.16E-04	4.62E-04	5.29E-04	7.95E-04	1.37E-03	1.64E-03	3.05E-03	4.34E-03	8.77E-04	4.83E-04	9.68E-06	8.04E-07	0.00E+00
Louisiana	Plaquemines Parish	22075	U	1.39E-06	1.39E-06	3.92E-06	6.55E-05	1.80E-04	3.21E-04	6.59E-04	6.59E-04	1.54E-04	2.19E-05	5.49E-07	3.94E-06	0.00E+00
Louisiana	Pointe Coupee Parish	22077	R	1.99E-04	1.99E-04	5.86E-04	7.00E-04	6.30E-04	7.96E-04	7.99E-04	7.99E-04	4.79E-04	1.35E-04	2.85E-06	1.27E-05	0.00E+00
Louisiana	Rapides Parish	22079	U	2.32E-04	2.90E-04	3.68E-04	5.70E-04	5.81E-04	6.67E-04	9.50E-04	9.97E-04	5.55E-04	1.28E-05	9.04E-06	4.58E-06	0.00E+00
Louisiana	Red River Parish	22081	R	1.10E-03	1.10E-03	1.10E-03	1.21E-03	1.21E-03	1.32E-03	1.32E-03	1.32E-03	8.89E-04	3.21E-04	1.04E-06	3.19E-07	0.00E+00
Louisiana	Richland Parish	22083	R	1.54E-05	1.54E-05	2.43E-05	7.92E-05	1.08E-04	1.36E-04	3.12E-04	3.12E-04	2.92E-05	7.54E-05	2.40E-06	6.66E-07	0.00E+00
Louisiana	Sabine Parish	22085	R	1.74E-04	1.74E-04	2.05E-04	2.80E-04	3.23E-04	3.97E-04	6.59E-04	6.59E-04	1.77E-04	1.45E-04	8.42E-07	6.74E-07	0.00E+00
Louisiana	St. Bernard Parish	22087	U	1.99E-05	2.66E-04	3.61E-04	5.66E-04	5.21E-04	6.33E-04	7.45E-04	9.83E-04	4.24E-04	8.24E-05	3.97E-06	1.01E-05	0.00E+00
Louisiana	St. Charles Parish	22089	U	6.57E-04	7.97E-04	8.13E-04	9.12E-04	1.01E-03	1.04E-03	1.37E-03	1.59E-03	4.98E-04	4.93E-04	4.30E-06	1.16E-05	0.00E+00
Louisiana	St. Helena Parish	22091	R	1.28E-04	1.28E-04	1.28E-04	2.27E-04	2.27E-04	3.27E-04	3.27E-04	3.27E-04	4.49E-05	1.80E-04	2.05E-06	1.74E-07	0.00E+00
Louisiana	St. James Parish	22093	U	1.99E-04	1.99E-04	2.41E-04	6.81E-04	5.81E-04	7.06E-04	9.06E-04	9.06E-04	7.23E-05	5.00E-04	2.13E-06	6.40E-06	0.00E+00
Louisiana	St. John the Baptist Parish	22095	U	9.73E-04	1.14E-03	1.15E-03	1.79E-03	1.76E-03	1.94E-03	2.28E-03	2.49E-03	2.86E-04	1.45E-03	5.81E-06	1.60E-05	0.00E+00
Louisiana	St. Landry Parish	22097	U	2.10E-05	2.13E-05	2.29E-05	3.00E-05	4.83E-05	3.48E-05	1.55E-04	2.72E-04	2.46E-05	1.65E-05	5.02E-06	2.08E-06	0.00E+00
Louisiana	St. Martin Parish	22099	U	3.92E-05	3.92E-05	4.82E-05	5.25E-05	1.22E-04	8.93E-05	3.90E-04	3.90E-04	4.48E-05	7.09E-05	4.25E-06	1.70E-06	0.00E+00
Louisiana	St. Mary Parish	22101	U	2.14E-05	1.57E-04	2.09E-04	3.53E-04	7.56E-04	9.95E-04	1.52E-03	4.11E-03	7.03E-04	4.69E-05	3.00E-06	3.65E-06	0.00E+00
Louisiana	St. Tammany Parish	22103	U	3.82E-05	4.65E-05	5.24E-05	1.77E-04	6.39E-04	9.20E-04	1.64E-03	2.62E-03	1.10E-04	5.23E-04	4.61E-06	1.53E-06	0.00E+00
Louisiana	Tangipahoa Parish	22105	R	2.89E-04	3.13E-04	3.88E-04	4.65E-04	7.64E-04	6.86E-04	9.93E-04	4.98E-03	2.39E-04	5.21E-04	3.83E-06	7.32E-07	0.00E+00
Louisiana	Tensas Parish	22107	R	8.47E-04	8.47E-04	8.47E-04	3.80E-03	2.94E-03	4.18E-03	4.18E-03	4.18E-03	2.90E-03	3.73E-05	4.85E-07	6.92E-06	0.00E+00
Louisiana	Terrebonne Parish	22109	R	2.21E-04	3.18E-04	6.42E-04	9.85E-04	9.01E-04	1.21E-03	1.27E-03	1.43E-03	1.10E-04	7.83E-04	5.63E-06	1.84E-06	0.00E+00
Louisiana	Union Parish	22111	R	1.89E-04	1.89E-04	4.62E-04	5.47E-04	8.66E-04	1.17E-03	2.28E-03	2.28E-03	4.64E-04	4.00E-04	1.60E-06	1.61E-07	0.00E+00
Louisiana	Vermilion Parish	22113	R	1.36E-06	2.15E-06	2.75E-05	3.81E-05	3.63E-05	5.33E-05	5.96E-05	6.54E-05	5.66E-07	3.09E-05	3.34E-06	1.43E-06	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Louisiana	Vernon Parish	22115	R	2.61E-04	2.61E-04	4.12E-04	4.66E-04	5.92E-04	7.53E-04	1.25E-03	1.25E-03	5.54E-04	3.60E-05	1.60E-06	2.17E-07	0.00E+00
Louisiana	Washington Parish	22117	R	7.25E-04	9.62E-04	1.46E-03	2.01E-03	2.86E-03	4.97E-03	6.10E-03	7.18E-03	2.78E-03	7.40E-05	1.75E-06	1.84E-07	0.00E+00
Louisiana	Webster Parish	22119	U	5.52E-05	5.57E-05	5.72E-05	1.75E-04	3.27E-04	3.95E-04	7.76E-04	1.28E-03	1.82E-04	1.43E-04	1.92E-06	2.46E-07	0.00E+00
Louisiana	West Baton Rouge Parish	22121	U	6.99E-04	6.99E-04	8.39E-04	9.99E-04	1.14E-03	1.43E-03	1.85E-03	1.85E-03	2.28E-04	8.39E-04	9.26E-06	6.00E-05	0.00E+00
Louisiana	West Carroll Parish	22123	R	4.92E-05	4.92E-05	4.92E-05	5.34E-05	5.38E-05	5.88E-05	5.88E-05	5.88E-05	2.44E-06	4.91E-05	8.57E-07	1.38E-06	0.00E+00
Louisiana	West Feliciana Parish	22125	R	1.84E-04	1.84E-04	1.84E-04	3.09E-04	3.82E-04	6.53E-04	6.53E-04	6.53E-04	2.99E-04	5.85E-05	1.67E-06	2.34E-05	0.00E+00
Louisiana	Winn Parish	22127	R	6.73E-04	6.73E-04	6.97E-04	8.36E-04	8.27E-04	9.58E-04	9.64E-04	9.64E-04	4.28E-04	3.97E-04	1.92E-06	2.42E-07	0.00E+00
Maine	Statewide	N/A	N/A	7.48E-05	1.13E-04	2.38E-04	6.28E-04	1.12E-03	1.28E-03	2.20E-03	2.77E-03	5.81E-05	1.05E-03	3.92E-06	3.94E-06	0.00E+00
Maine	All Urban Counties	N/A	U	4.71E-04	5.37E-04	6.00E-04	7.43E-04	2.00E-03	1.04E-03	5.42E-03	1.10E-02	7.77E-05	1.92E-03	4.84E-06	7.12E-07	0.00E+00
Maine	All Rural Counties	N/A	R	7.10E-05	9.44E-05	2.04E-04	5.19E-04	9.04E-04	1.33E-03	2.14E-03	2.50E-03	5.33E-05	8.42E-04	3.70E-06	4.73E-06	0.00E+00
Maine	Androscoggin County	23001	U	5.74E-04	5.75E-04	6.23E-04	7.51E-04	7.77E-04	8.37E-04	1.03E-03	1.05E-03	8.43E-05	6.87E-04	5.02E-06	6.54E-07	0.00E+00
Maine	Aroostook County	23003	R	7.48E-05	1.68E-04	4.62E-04	8.47E-04	1.24E-03	2.04E-03	2.85E-03	2.99E-03	9.21E-06	1.23E-03	8.11E-07	1.39E-07	0.00E+00
Maine	Cumberland County	23005	R	4.87E-04	7.44E-04	1.27E-03	1.79E-03	1.71E-03	2.14E-03	2.34E-03	2.51E-03	3.71E-05	1.64E-03	7.86E-06	2.04E-05	0.00E+00
Maine	Franklin County	23007	R	8.26E-05	8.26E-05	4.31E-04	6.58E-04	5.90E-04	7.63E-04	8.76E-04	8.76E-04	1.36E-04	4.53E-04	1.18E-06	1.23E-07	0.00E+00
Maine	Hancock County	23009	R	6.21E-05	8.22E-05	1.89E-04	2.96E-04	4.42E-04	3.62E-04	6.65E-04	2.86E-03	2.37E-06	4.39E-04	1.05E-06	2.05E-07	0.00E+00
Maine	Kennebec County	23011	R	5.51E-04	5.71E-04	7.58E-04	9.39E-04	1.06E-03	1.15E-03	1.92E-03	2.29E-03	1.16E-04	9.36E-04	5.38E-06	3.53E-07	0.00E+00
Maine	Knox County	23013	R	1.38E-04	1.40E-04	1.93E-04	2.13E-04	2.48E-04	3.22E-04	4.17E-04	5.09E-04	3.37E-08	2.46E-04	1.92E-06	4.68E-07	0.00E+00
Maine	Lincoln County	23015	R	9.07E-05	1.43E-04	2.20E-04	3.18E-04	3.17E-04	3.90E-04	4.17E-04	6.15E-04	9.01E-07	3.14E-04	1.73E-06	2.56E-07	0.00E+00
Maine	Oxford County	23017	R	1.31E-04	1.48E-04	2.40E-04	2.89E-04	2.93E-04	3.59E-04	4.39E-04	4.44E-04	4.94E-05	2.42E-04	1.16E-06	1.43E-07	0.00E+00
Maine	Penobscot County	23019	R	6.52E-05	6.99E-05	9.56E-05	1.40E-04	1.85E-04	2.27E-04	4.04E-04	4.38E-04	4.06E-05	1.40E-04	4.06E-06	2.77E-07	0.00E+00
Maine	Piscataquis County	23021	R	2.34E-05	2.34E-05	3.48E-05	8.67E-05	1.29E-04	2.29E-04	3.49E-04	3.49E-04	1.20E-05	1.16E-04	4.47E-07	1.24E-07	0.00E+00
Maine	Sagadahoc County	23023	R	5.34E-04	5.34E-04	1.18E-03	1.69E-03	3.38E-03	2.47E-03	1.53E-02	1.53E-02	7.54E-06	3.37E-03	4.16E-06	7.68E-07	0.00E+00
Maine	Somerset County	23025	R	8.50E-06	5.28E-04	5.97E-04	7.42E-04	1.03E-03	1.19E-03	2.17E-03	3.43E-03	1.12E-04	9.15E-04	1.39E-06	1.18E-07	0.00E+00
Maine	Waldo County	23027	R	1.13E-04	1.13E-04	1.72E-04	1.89E-04	2.38E-04	3.49E-04	4.23E-04	4.23E-04	1.50E-05	2.21E-04	1.40E-06	5.94E-07	0.00E+00
Maine	Washington County	23029	R	2.70E-05	2.76E-05	5.13E-05	1.33E-04	2.72E-04	2.03E-04	7.79E-04	1.54E-03	2.26E-04	4.60E-05	5.30E-07	8.33E-08	0.00E+00
Maine	York County	23031	U	4.24E-04	4.84E-04	5.82E-04	7.29E-04	2.85E-03	2.29E-03	8.39E-03	1.56E-02	7.31E-05	2.78E-03	4.70E-06	7.54E-07	0.00E+00
Maryland	Statewide	N/A	N/A	3.70E-05	1.18E-04	4.03E-04	1.71E-03	3.45E-03	3.83E-03	6.86E-03	1.20E-02	1.58E-03	1.84E-03	2.25E-05	9.32E-06	0.00E+00
Maryland	All Urban Counties	N/A	U	1.61E-04	2.12E-04	7.05E-04	2.03E-03	3.74E-03	3.99E-03	7.10E-03	1.24E-02	1.71E-03	2.00E-03	2.44E-05	1.02E-05	0.00E+00
Maryland	All Rural Counties	N/A	R	9.19E-06	1.42E-05	2.01E-05	4.23E-05	5.40E-04	8.44E-05	2.34E-04	2.46E-03	3.12E-04	2.22E-04	4.47E-06	9.66E-07	0.00E+00
Maryland	Allegany County	24001	R	1.48E-05	1.63E-05	2.00E-05	3.48E-05	5.31E-05	5.69E-05	6.50E-05	2.34E-04	2.24E-05	2.18E-05	8.35E-06	5.61E-07	0.00E+00
Maryland	Anne Arundel County	24003	U	2.67E-03	3.30E-03	4.22E-03	6.16E-03	8.72E-03	1.18E-02	1.69E-02	2.45E-02	3.12E-03	5.56E-03	2.37E-05	1.10E-05	0.00E+00
Maryland	Baltimore County	24005	U	1.28E-03	1.42E-03	1.82E-03	2.77E-03	7.50E-03	7.07E-03	1.47E-02	1.85E-02	3.69E-03	3.77E-03	2.75E-05	1.76E-05	0.00E+00
Maryland	Calvert County	24009	U	1.71E-05	2.16E-05	3.26E-05	3.84E-05	4.43E-05	4.59E-05	8.08E-05	1.18E-04	2.32E-05	1.64E-05	3.68E-06	1.05E-06	0.00E+00
Maryland	Caroline County	24011	R	7.14E-06	7.14E-06	9.19E-06	1.68E-05	1.64E-05	1.93E-05	2.99E-05	2.99E-05	4.88E-06	9.18E-06	1.81E-06	5.24E-07	0.00E+00
Maryland	Carroll County	24013	U	1.20E-04	1.39E-04	3.02E-04	4.84E-04	5.75E-04	7.40E-04	1.21E-03	1.25E-03	1.30E-04	4.35E-04	9.14E-06	1.47E-06	0.00E+00
Maryland	Cecil County	24015	U	1.26E-04	1.50E-04	2.22E-04	3.56E-04	7.35E-04	1.19E-03	2.25E-03	2.29E-03	4.82E-04	2.43E-04	7.96E-06	1.98E-06	0.00E+00
Maryland	Charles County	24017	U	2.04E-04	2.07E-04	2.54E-04	3.10E-04	3.76E-04	5.23E-04	6.02E-04	6.21E-04	3.28E-04	3.81E-05	8.24E-06	8.47E-07	0.00E+00
Maryland	Dorchester County	24019	R	4.61E-06	7.97E-06	1.39E-05	2.63E-05	2.59E-05	3.68E-05	4.71E-05	5.37E-05	1.39E-05	9.52E-06	1.77E-06	7.01E-07	0.00E+00
Maryland	Frederick County	24021	U	1.02E-04	1.59E-04	3.56E-04	4.88E-04	4.37E-04	5.53E-04	5.93E-04	6.42E-04	2.90E-04	1.36E-04	9.48E-06	1.55E-06	0.00E+00
Maryland	Garrett County	24023	R	1.32E-05	1.32E-05	2.18E-05	2.05E-03	1.48E-03	2.46E-03	3.35E-03	3.35E-03	1.40E-03	7.44E-05	2.75E-06	2.11E-07	0.00E+00
Maryland	Harford County	24025	U	9.18E-04	1.25E-03	1.68E-03	2.98E-03	2.96E-03	3.75E-03	4.68E-03	5.41E-03	1.61E-03	1.33E-03	1.37E-05	4.35E-06	0.00E+00
Maryland	Howard County	24027	U	1.68E-03	2.07E-03	2.76E-03	3.54E-03	3.66E-03	4.31E-03	4.96E-03	6.37E-03	1.47E-03	2.16E-03	1.55E-05	4.82E-06	0.00E+00
Maryland	Kent County	24029	R	5.79E-05	5.79E-05	7.71E-03	8.32E-03	8.87E-03	1.21E-02	1.62E-02	1.62E-02	4.60E-03	4.27E-03	5.62E-06	5.72E-06	0.00E+00
Maryland	Montgomery County	24031	U	1.50E-04	1.58E-04	1.80E-04	4.20E-04	5.47E-04	7.56E-04	1.15E-03	1.51E-03	1.09E-04	4.12E-04	2.20E-05	3.04E-06	0.00E+00
Maryland	Prince George's County	24033	U	2.04E-04	2.38E-04	6.99E-04	1.36E-03	1.23E-03	1.69E-03	2.22E-03	2.49E-03	4.12E-04	7.94E-04	1.98E-05	2.48E-06	0.00E+00
Maryland	Queen Anne's County	24035	U	3.18E-05	7.91E-04	1.98E-03	2.35E-03	3.12E-03	4.16E-03	6.71E-03	8.44E-03	1.74E-03	1.37E-03	3.30E-06	2.63E-06	0.00E+00
Maryland	St. Mary's County	24037	R	4.18E-05	4.69E-05	8.23E-05	9.67E-05	1.29E-04	1.00E-04	3.78E-04	4.44E-04	7.65E-05	4.82E-05	3.50E-06	8.84E-07	0.00E+00
Maryland	Somerset County	24039	R	6.86E-06	6.86E-06	6.99E-06	2.04E-05	1.91E-05	3.21E-05	3.23E-05	3.23E-05	1.89E-06	1.56E-05	1.15E-06	4.47E-07	0.00E+00
Maryland	Talbot County	24041	R	1.31E-05	1.31E-05	1.42E-05	1.58E-05	2.91E-05	2.02E-05	7.69E-05	7.69E-05	5.60E-06	1.95E-05	2.69E-06	1.33E-06	0.00E+00
Maryland	Washington County	24043	U	6.21E-04	7.22E-04	9.58E-04	1.91E-03	6.66E-03	2.79E-03	1.04E-02	2.47E-02	5.45E-03	1.20E-03	7.63E-06	9.55E-07	0.00E+00
Maryland	Wicomico County	24045	R	2.59E-05	4.28E-05	5.97E-05	7.00E-05	8.05E-05	1.02E-04	1.26E-04	1.47E-04	9.10E-06	6.41E-05	6.38E-06	9.51E-07	0.00E+00
Maryland	Worcester County	24047	R	1.90E-05	2.35E-05	3.12E-05	3.66E-05	3.65E-05	4.55E-05	4.76E-05	4.81E-05	7.19E-06	2.54E-05	3.13E-06	8.35E-07	0.00E+00
Maryland	Baltimore city	24510	U	2.45E-03	2.64E-03	3.17E-03	3.89E-03	4.39E-03	4.94E-03	5.97E-03	7.27E-03	1.95E-03	2.37E-03	4.53E-05	2.51E-05	0.00E+00
Massachusetts	Statewide	N/A	N/A	4.63E-05	7.31E-05	1.18E-04	1.72E-04	1.84E-04	2.36E-04	2.90E-04	3.40E-04	1.41E-05	1.46E-04	1.74E-05	5.95E-06	0.00E+00

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State	County	FIPS	Urban or Rural	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
Massachusetts	All Urban Counties	N/A	U	7.30E-05	9.10E-05	1.32E-04	1.80E-04	1.94E-04	2.43E-04	2.94E-04	3.46E-04	1.51E-05	1.54E-04	1.83E-05	6.35E-06	0.00E+00
Massachusetts	All Rural Counties	N/A	R	1.08E-05	1.85E-05	3.09E-05	4.56E-05	6.17E-05	8.15E-05	1.23E-04	1.57E-04	2.19E-06	5.34E-05	5.09E-06	9.48E-07	0.00E+00
Massachusetts	Barnstable County	25001	R	1.52E-05	2.44E-05	3.17E-05	3.84E-05	4.05E-05	4.63E-05	6.38E-05	6.74E-05	2.13E-06	3.12E-05	6.13E-06	1.05E-06	0.00E+00
Massachusetts	Berkshire County	25003	R	1.96E-05	3.09E-05	6.19E-05	9.81E-05	9.97E-05	1.23E-04	1.61E-04	1.90E-04	2.76E-06	9.13E-05	4.76E-06	8.24E-07	0.00E+00
Massachusetts	Bristol County	25005	U	8.53E-05	1.13E-04	1.35E-04	1.62E-04	1.75E-04	1.99E-04	2.67E-04	3.09E-04	4.69E-05	1.06E-04	1.72E-05	4.53E-06	0.00E+00
Massachusetts	Dukes County	25007	R	9.73E-06	9.73E-06	1.03E-05	1.53E-05	1.64E-05	2.25E-05	2.52E-05	2.52E-05	3.23E-07	1.35E-05	1.64E-06	8.94E-07	0.00E+00
Massachusetts	Essex County	25009	U	1.09E-04	1.25E-04	1.56E-04	1.92E-04	2.02E-04	2.34E-04	2.75E-04	3.38E-04	4.05E-05	1.41E-04	1.77E-05	3.24E-06	0.00E+00
Massachusetts	Franklin County	25011	U	1.96E-05	3.67E-05	4.33E-05	5.03E-05	6.17E-05	6.92E-05	1.32E-04	1.54E-04	5.36E-07	5.09E-05	9.73E-06	5.31E-07	0.00E+00
Massachusetts	Hampden County	25013	U	9.18E-05	1.11E-04	1.48E-04	2.03E-04	2.01E-04	2.49E-04	2.93E-04	3.18E-04	7.18E-06	1.72E-04	2.08E-05	1.47E-06	0.00E+00
Massachusetts	Hampshire County	25015	U	3.87E-05	6.42E-05	8.51E-05	1.01E-04	1.06E-04	1.22E-04	1.41E-04	1.86E-04	2.14E-06	8.67E-05	1.63E-05	8.74E-07	0.00E+00
Massachusetts	Middlesex County	25017	U	1.09E-04	1.27E-04	1.66E-04	2.01E-04	2.11E-04	2.55E-04	2.90E-04	3.38E-04	8.19E-06	1.78E-04	2.07E-05	3.61E-06	0.00E+00
Massachusetts	Nantucket County	25019	R	4.35E-06	4.35E-06	4.51E-06	7.90E-06	1.20E-05	1.85E-05	2.87E-05	2.87E-05	0.00E+00	1.03E-05	7.62E-07	9.62E-07	0.00E+00
Massachusetts	Norfolk County	25021	U	1.19E-04	1.28E-04	1.43E-04	1.61E-04	1.75E-04	1.96E-04	2.30E-04	3.04E-04	7.36E-06	1.43E-04	2.10E-05	3.68E-06	0.00E+00
Massachusetts	Plymouth County	25023	U	6.25E-05	7.18E-05	8.60E-05	1.17E-04	1.28E-04	1.67E-04	2.02E-04	2.21E-04	1.18E-05	1.00E-04	1.31E-05	2.29E-06	0.00E+00
Massachusetts	Suffolk County	25025	U	1.65E-04	1.77E-04	2.19E-04	2.62E-04	2.94E-04	3.20E-04	4.56E-04	5.83E-04	1.08E-05	2.32E-04	2.36E-05	2.78E-05	0.00E+00
Massachusetts	Worcester County	25027	U	5.06E-05	5.76E-05	8.01E-05	1.06E-04	1.37E-04	1.57E-04	2.46E-04	2.70E-04	9.61E-07	1.24E-04	1.07E-05	1.02E-06	0.00E+00
Michigan	Statewide	N/A	N/A	2.46E-05	7.89E-05	2.85E-04	8.64E-04	2.75E-03	1.77E-03	3.78E-03	6.79E-03	2.10E-03	6.31E-04	1.47E-05	2.72E-06	0.00E+00
Michigan	All Urban Counties	N/A	U	1.20E-04	1.75E-04	5.26E-04	1.10E-03	2.75E-03	1.98E-03	4.09E-03	6.61E-03	2.10E-03	6.24E-04	1.80E-05	3.25E-06	0.00E+00
Michigan	All Rural Counties	N/A	R	5.11E-06	8.29E-06	3.00E-05	2.00E-04	2.76E-03	5.90E-04	1.98E-03	9.17E-03	2.10E-03	6.55E-04	3.00E-06	8.13E-07	0.00E+00
Michigan	Alcona County	26001	R	3.54E-06	3.54E-06	5.26E-06	6.21E-05	9.54E-05	2.03E-04	2.37E-04	2.37E-04	8.50E-05	9.85E-06	3.74E-07	2.44E-07	0.00E+00
Michigan	Alger County	26003	R	3.35E-07	3.35E-07	1.28E-05	6.65E-05	7.21E-05	1.31E-04	1.55E-04	1.55E-04	5.25E-06	6.66E-05	1.22E-07	1.61E-07	0.00E+00
Michigan	Allegan County	26005	U	1.97E-04	2.51E-04	2.90E-04	4.08E-04	6.18E-04	5.23E-04	1.51E-03	1.64E-03	4.42E-04	1.71E-04	4.34E-06	5.59E-07	0.00E+00
Michigan	Alpena County	26007	R	1.28E-04	2.50E-04	5.90E-04	1.56E-03	4.46E-03	3.29E-03	1.69E-02	2.49E-02	3.78E-03	6.85E-04	2.31E-06	1.52E-06	0.00E+00
Michigan	Antrim County	26009	R	3.40E-04	3.40E-04	7.23E-03	8.44E-03	1.10E-02	1.35E-02	2.96E-02	2.96E-02	1.06E-02	4.16E-04	1.07E-06	5.82E-07	0.00E+00
Michigan	Arenac County	26011	R	3.98E-06	3.98E-06	6.15E-06	2.64E-05	2.05E-05	2.97E-05	3.03E-05	3.03E-05	1.52E-05	3.56E-06	1.29E-06	4.24E-07	0.00E+00
Michigan	Baraga County	26013	R	3.03E-05	3.03E-05	3.03E-05	3.56E-05	4.29E-05	6.30E-05	6.30E-05	6.30E-05	0.00E+00	4.17E-05	3.00E-07	9.76E-07	0.00E+00
Michigan	Barry County	26015	R	1.51E-04	2.06E-04	2.79E-04	3.69E-04	3.70E-04	5.06E-04	5.23E-04	5.35E-04	9.96E-05	2.67E-04	2.65E-06	3.83E-07	0.00E+00
Michigan	Bay County	26017	U	3.18E-05	4.85E-04	8.08E-04	9.77E-04	9.26E-04	1.09E-03	1.27E-03	1.41E-03	5.26E-04	3.93E-04	5.51E-06	1.47E-06	0.00E+00
Michigan	Benzie County	26019	R	9.68E-07	9.68E-07	6.19E-06	8.19E-06	7.26E-06	8.47E-06	1.16E-05	1.16E-05	6.20E-08	5.94E-06	9.33E-07	3.31E-07	0.00E+00
Michigan	Berrien County	26021	R	1.91E-04	2.03E-04	2.50E-04	6.95E-04	8.08E-04	1.12E-03	1.98E-03	2.18E-03	2.93E-04	5.07E-04	6.88E-06	8.58E-07	0.00E+00
Michigan	Branch County	26023	R	5.91E-05	2.67E-04	3.09E-04	3.56E-04	4.72E-04	4.23E-04	1.20E-03	1.25E-03	2.40E-04	2.27E-04	4.47E-06	4.72E-07	0.00E+00
Michigan	Calhoun County	26025	U	4.91E-04	5.47E-04	6.00E-04	6.38E-04	1.02E-02	1.04E-03	2.52E-02	4.07E-02	1.00E-02	2.36E-04	7.76E-06	6.87E-07	0.00E+00
Michigan	Cass County	26027	R	2.70E-04	3.09E-04	3.58E-04	5.57E-04	6.44E-04	8.08E-04	1.29E-03	1.46E-03	1.05E-04	5.34E-04	4.69E-06	7.03E-07	0.00E+00
Michigan	Charlevoix County	26029	R	3.88E-06	5.59E-03	1.07E-02	2.33E-02	7.00E-02	9.17E-02	2.81E-01	3.15E-01	6.26E-02	7.48E-03	1.47E-06	8.19E-07	0.00E+00
Michigan	Cheboygan County	26031	R	5.38E-06	5.38E-06	1.60E-05	2.28E-05	7.29E-05	3.19E-05	2.78E-04	2.78E-04	2.88E-07	7.05E-05	1.57E-06	5.95E-07	0.00E+00
Michigan	Chippewa County	26033	R	1.23E-06	2.20E-06	3.58E-06	1.50E-06	7.90E-06	1.17E-05	1.31E-05	2.17E-05	1.60E-12	5.53E-06	1.60E-06	7.74E-07	0.00E+00
Michigan	Clare County	26035	R	9.63E-06	2.61E-05	3.16E-05	4.59E-05	4.65E-05	5.91E-05	6.39E-05	9.58E-05	0.00E+00	4.52E-05	1.15E-06	1.72E-07	0.00E+00
Michigan	Clinton County	26037	U	1.87E-05	2.21E-05	3.21E-05	4.94E-05	7.01E-05	1.03E-04	1.61E-04	1.93E-04	4.07E-05	2.37E-05	4.96E-06	7.18E-07	0.00E+00
Michigan	Crawford County	26039	R	2.39E-05	2.39E-05	2.68E-05	3.08E-05	3.31E-05	3.60E-05	4.82E-05	4.82E-05	1.71E-05	1.41E-05	1.80E-06	1.33E-07	0.00E+00
Michigan	Delta County	26041	R	4.07E-05	5.22E-05	8.74E-05	1.76E-04	1.89E-04	3.03E-04	3.25E-04	3.27E-04	1.09E-05	1.62E-04	2.66E-06	1.28E-05	0.00E+00
Michigan	Dickinson County	26043	U	1.94E-03	1.94E-03	1.96E-03	2.39E-03	2.71E-03	3.47E-03	3.87E-03	3.87E-03	5.12E-04	2.20E-03	3.30E-06	5.00E-07	0.00E+00
Michigan	Eaton County	26045	U	5.36E-05	6.17E-05	9.51E-05	1.48E-04	3.60E-04	6.40E-04	9.08E-04	1.12E-03	3.07E-04	4.54E-05	6.86E-06	7.22E-07	0.00E+00
Michigan	Emmet County	26047	R	2.97E-05	2.97E-05	1.18E-02	1.70E-02	1.46E-02	1.92E-02	1.97E-02	1.97E-02	1.41E-02	5.09E-04	1.37E-06	1.02E-06	0.00E+00
Michigan	Genesee County	26049	U	1.10E-04	1.24E-04	1.54E-04	4.97E-04	4.07E-04	5.48E-04	6.48E-04	7.76E-04	1.71E-04	2.21E-04	1.42E-05	9.15E-07	0.00E+00
Michigan	Gladwin County	26051	R	3.84E-06	3.84E-06	6.38E-06	2.98E-05	2.27E-05	3.23E-05	4.16E-05	4.16E-05	1.89E-06	1.95E-05	1.13E-06	1.68E-07	0.00E+00
Michigan	Gogebic County	26053	R	1.83E-05	1.83E-05	4.50E-05	1.27E-04	6.06E-04	5.63E-04	3.36E-03	3.36E-03	1.94E-05	5.85E-04	1.06E-06	2.70E-07	0.00E+00
Michigan	Grand Traverse County	26055	R	2.22E-05	2.34E-05	3.76E-05	5.70E-05	2.33E-04	9.12E-05	1.11E-04	2.83E-03	1.69E-04	6.00E-05	3.17E-06	7.22E-07	0.00E+00
Michigan	Gratiot County	26057	R	3.83E-05	3.83E-05	7.17E-05	8.48E-05	1.19E-04	9.62E-05	4.04E-04	4.04E-04	3.97E-05	7.61E-05	2.36E-06	4.23E-07	0.00E+00
Michigan	Hillsdale County	26059	R	1.99E-04	2.71E-04	3.19E-04	3.82E-04	3.85E-04	4.67E-04	4.86E-04	5.20E-04	2.55E-04	1.27E-04	2.79E-06	3.92E-07	0.00E+00
Michigan	Houghton County	26061	R	6.07E-05	6.45E-05	6.82E-05	4.62E-04	1.06E-03	7.02E-04	4.09E-03	4.64E-03	0.00E+00	1.06E-03	1.95E-06	6.66E-07	0.00E+00
Michigan	Huron County	26063	R	3.78E-06	6.65E-06	9.07E-06	1.15E-05	3.81E-05	2.75E-05	1.26E-04	1.89E-04	5.26E-06	3.16E-05	8.10E-07	4.67E-07	0.00E+00
Michigan	Ingham County	26065														

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

State	County	FIPS	Urban or Rural	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
Michigan	Iron County	26071	R	1.18E-04	1.18E-04	3.66E-04	7.19E-04	8.17E-04	1.33E-03	1.54E-03	1.54E-03	4.37E-05	7.72E-04	6.69E-07	1.25E-07	0.00E+00
Michigan	Isabella County	26073	R	9.83E-05	1.53E-04	2.47E-04	3.78E-04	2.30E-03	3.74E-03	5.95E-03	9.85E-03	6.56E-07	2.29E-03	4.79E-06	5.61E-07	0.00E+00
Michigan	Jackson County	26075	R	2.66E-04	3.21E-04	5.37E-04	8.09E-04	1.12E-03	1.14E-03	1.87E-03	3.89E-03	5.16E-04	5.94E-04	9.84E-06	7.24E-07	0.00E+00
Michigan	Kalamazoo County	26077	U	2.25E-04	3.09E-04	4.33E-04	6.20E-04	1.26E-03	1.26E-03	2.60E-03	3.02E-03	5.57E-04	6.94E-04	1.31E-05	1.21E-06	0.00E+00
Michigan	Kalkaska County	26079	R	1.48E-04	1.48E-04	1.83E-04	2.74E-04	3.42E-04	5.01E-04	6.73E-04	6.73E-04	3.04E-06	3.38E-04	1.03E-06	1.67E-07	0.00E+00
Michigan	Kent County	26081	U	5.54E-04	8.16E-04	1.17E-03	1.47E-03	2.12E-03	1.79E-03	2.43E-03	2.91E-03	1.44E-04	1.96E-03	1.36E-05	1.53E-06	0.00E+00
Michigan	Keweenaw County	26083	R	1.96E-07	1.96E-07	1.96E-07	3.51E-07	5.38E-06	1.56E-05	1.56E-05	1.56E-05	0.00E+00	4.95E-06	2.71E-08	3.98E-07	0.00E+00
Michigan	Lake County	26085	R	2.12E-05	2.12E-05	2.12E-05	2.29E-05	2.29E-05	2.46E-05	2.46E-05	2.46E-05	1.45E-08	2.22E-05	5.37E-07	1.22E-07	0.00E+00
Michigan	Lapeer County	26087	U	2.53E-05	4.35E-05	9.18E-05	1.18E-04	1.21E-04	1.44E-04	1.67E-04	1.69E-04	2.13E-05	9.36E-05	5.31E-06	6.48E-07	0.00E+00
Michigan	Leelanau County	26089	R	4.08E-07	4.08E-07	3.66E-06	5.88E-06	1.30E-03	2.86E-03	6.19E-03	6.19E-03	1.24E-03	5.41E-05	7.00E-07	7.18E-07	0.00E+00
Michigan	Lenawee County	26091	U	8.48E-05	8.66E-05	2.00E-04	4.35E-04	4.26E-04	5.92E-04	6.57E-04	6.88E-04	4.63E-05	3.75E-04	3.95E-06	7.05E-07	0.00E+00
Michigan	Livingston County	26093	U	8.64E-05	1.04E-04	1.15E-04	1.37E-04	1.39E-04	1.59E-04	1.75E-04	1.90E-04	1.36E-05	1.17E-04	7.41E-06	7.73E-07	0.00E+00
Michigan	Luce County	26095	R	3.25E-07	3.25E-07	3.25E-07	1.33E-05	1.04E-05	1.76E-05	1.76E-05	1.76E-05	2.11E-10	9.98E-06	1.95E-07	2.28E-07	0.00E+00
Michigan	Mackinac County	26097	R	3.80E-06	3.80E-06	5.22E-06	6.09E-06	8.71E-06	1.23E-05	1.87E-05	1.87E-05	1.51E-09	6.02E-06	9.97E-07	1.69E-06	0.00E+00
Michigan	Macomb County	26099	U	3.09E-04	8.81E-04	1.12E-03	1.39E-03	1.45E-03	1.71E-03	2.01E-03	2.35E-03	9.99E-04	4.30E-04	1.85E-05	3.78E-06	0.00E+00
Michigan	Manistee County	26101	R	8.96E-06	9.23E-06	2.11E-05	3.18E-05	3.23E-05	4.92E-05	5.04E-05	5.16E-05	1.20E-06	2.95E-05	1.30E-06	2.82E-07	0.00E+00
Michigan	Marquette County	26103	R	5.45E-05	8.88E-05	1.65E-04	2.84E-04	5.56E-04	7.02E-04	1.40E-03	1.99E-03	5.19E-04	3.36E-05	3.50E-06	3.39E-07	0.00E+00
Michigan	Mason County	26105	R	2.85E-05	2.85E-05	1.08E-04	1.37E-04	2.07E-03	1.11E-03	1.08E-02	1.08E-02	6.16E-06	2.06E-03	1.55E-06	3.19E-07	0.00E+00
Michigan	Mecosta County	26107	R	1.52E-05	1.66E-05	2.09E-05	3.37E-05	3.82E-05	4.03E-05	4.68E-05	1.28E-04	8.89E-07	3.32E-05	3.80E-06	3.43E-07	0.00E+00
Michigan	Menominee County	26109	R	6.62E-04	6.62E-04	9.00E-04	2.48E-03	1.29E-02	1.89E-02	5.78E-02	5.78E-02	4.23E-04	1.24E-02	2.50E-06	6.72E-07	0.00E+00
Michigan	Midland County	26111	U	7.75E-05	2.07E-04	3.08E-04	4.18E-04	4.26E-04	4.72E-04	5.40E-04	1.19E-03	2.44E-04	1.77E-04	4.15E-06	5.75E-07	0.00E+00
Michigan	Missaukee County	26113	R	5.61E-05	5.61E-05	8.90E-05	1.23E-04	1.33E-04	1.77E-04	2.30E-04	2.30E-04	1.46E-06	1.30E-04	7.19E-07	1.74E-07	0.00E+00
Michigan	Monroe County	26115	U	4.24E-04	5.99E-04	7.92E-04	1.35E-03	1.96E-03	2.39E-03	3.74E-03	4.81E-03	1.04E-03	9.09E-04	8.14E-06	3.02E-06	0.00E+00
Michigan	Montcalm County	26117	R	2.96E-05	3.00E-05	3.49E-05	8.32E-05	1.80E-04	2.42E-04	5.09E-04	5.38E-04	2.44E-05	1.53E-04	2.22E-06	3.35E-07	0.00E+00
Michigan	Montmorency County	26119	R	5.38E-06	5.38E-06	6.24E-06	1.01E-05	4.84E-05	7.73E-05	1.43E-04	1.43E-04	3.98E-05	7.91E-06	5.97E-07	1.22E-07	0.00E+00
Michigan	Muskegon County	26121	U	3.24E-04	3.37E-04	5.51E-04	9.63E-04	1.38E-03	1.70E-03	2.55E-03	3.17E-03	7.40E-04	6.29E-04	4.77E-06	2.61E-06	0.00E+00
Michigan	Newaygo County	26123	R	1.42E-05	7.57E-05	3.15E-04	3.80E-04	4.13E-04	5.92E-04	7.25E-04	7.64E-04	3.93E-05	3.73E-04	1.34E-06	2.30E-07	0.00E+00
Michigan	Oakland County	26125	U	2.45E-04	2.89E-04	5.66E-04	7.65E-04	9.11E-04	1.19E-03	1.62E-03	1.92E-03	4.73E-04	4.17E-04	1.80E-05	2.45E-06	0.00E+00
Michigan	Oceana County	26127	R	1.42E-04	1.42E-04	1.49E-04	2.07E-04	2.67E-04	3.01E-04	5.98E-04	5.98E-04	1.95E-04	7.15E-05	9.16E-07	2.83E-07	0.00E+00
Michigan	Ogemaw County	26129	R	3.35E-06	3.35E-06	4.07E-06	5.07E-06	5.84E-06	8.18E-06	8.69E-06	8.69E-06	3.35E-07	4.03E-06	1.26E-06	2.11E-07	0.00E+00
Michigan	Ontonagon County	26131	R	1.42E-05	1.42E-05	1.58E-05	2.98E-05	6.09E-05	1.06E-04	1.70E-04	1.70E-04	8.55E-07	5.99E-05	9.49E-08	1.12E-07	0.00E+00
Michigan	Osceola County	26133	R	4.66E-05	4.66E-05	5.08E-05	5.61E-05	6.29E-05	7.60E-05	9.14E-05	9.14E-05	0.00E+00	6.17E-05	9.58E-07	1.71E-07	0.00E+00
Michigan	Oscoda County	26135	R	3.12E-06	3.12E-06	5.46E-06	9.06E-06	8.18E-06	1.09E-05	1.15E-05	1.15E-05	2.83E-06	4.58E-06	6.24E-07	1.42E-07	0.00E+00
Michigan	Otsego County	26137	R	1.31E-05	1.31E-05	1.46E-04	1.68E-04	1.53E-04	1.90E-04	2.28E-04	2.28E-04	2.50E-06	1.47E-04	2.79E-06	2.47E-07	0.00E+00
Michigan	Ottawa County	26139	U	4.95E-04	6.57E-04	8.46E-04	1.07E-03	1.74E-03	2.12E-03	4.09E-03	4.60E-03	1.32E-03	4.12E-04	9.99E-06	1.15E-06	0.00E+00
Michigan	Presque Isle County	26141	R	6.81E-06	6.81E-06	7.30E-05	1.43E-04	2.27E-04	3.54E-04	6.42E-04	6.42E-04	2.04E-04	1.88E-05	3.82E-07	3.68E-06	0.00E+00
Michigan	Roscommon County	26143	R	9.26E-06	1.06E-05	1.06E-05	1.35E-05	1.40E-05	1.72E-05	1.94E-05	1.96E-05	4.15E-06	8.31E-06	1.36E-06	1.53E-07	0.00E+00
Michigan	Saginaw County	26145	U	5.12E-04	8.10E-04	1.91E-03	4.90E-03	1.22E-02	1.20E-02	2.18E-02	4.13E-02	7.92E-03	4.24E-03	7.25E-06	1.28E-06	0.00E+00
Michigan	St. Clair County	26147	U	8.62E-05	1.20E-04	2.39E-04	3.77E-04	1.71E-03	8.30E-04	1.95E-03	3.09E-03	1.48E-03	2.26E-04	5.48E-06	2.51E-06	0.00E+00
Michigan	St. Joseph County	26149	R	1.25E-04	1.40E-04	3.46E-04	3.63E-04	7.70E-04	5.19E-04	9.32E-04	6.00E-03	1.27E-04	6.37E-04	4.78E-06	7.76E-07	0.00E+00
Michigan	Sanilac County	26151	R	5.71E-06	6.31E-06	9.77E-06	1.64E-05	3.26E-05	2.18E-05	9.42E-05	1.36E-04	1.47E-05	1.63E-05	1.12E-06	4.41E-07	0.00E+00
Michigan	Schoolcraft County	26153	R	2.96E-06	2.96E-06	6.96E-06	1.25E-05	1.62E-05	2.55E-05	3.70E-05	3.70E-05	1.96E-06	1.26E-05	2.60E-07	1.40E-06	0.00E+00
Michigan	Shiawassee County	26155	R	3.24E-05	4.19E-05	6.03E-05	2.12E-04	1.80E-04	2.40E-04	2.78E-04	4.65E-04	8.32E-05	9.17E-05	4.18E-06	5.87E-07	0.00E+00
Michigan	Tuscola County	26157	R	1.19E-04	1.41E-04	2.09E-04	6.05E-04	6.89E-04	9.57E-04	1.14E-03	2.13E-03	3.08E-04	3.78E-04	2.20E-06	3.95E-07	0.00E+00
Michigan	Van Buren County	26159	U	3.50E-05	1.04E-04	2.64E-04	2.83E-04	4.96E-04	3.26E-04	5.57E-04	3.89E-03	5.61E-05	4.35E-04	3.75E-06	4.55E-07	0.00E+00
Michigan	Washtenaw County	26161	U	6.60E-05	7.56E-05	1.16E-04	2.62E-04	4.17E-04	6.89E-04	8.11E-04	8.93E-04	2.90E-04	1.07E-04	1.70E-05	2.11E-06	0.00E+00
Michigan	Wayne County	26163	U	8.78E-04	1.04E-03	1.49E-03	2.39E-03	5.41E-03	4.27E-03	6.98E-03	1.04E-02	4.76E-03	6.14E-04	2.96E-05	6.45E-06	0.00E+00
Michigan	Wexford County	26165	R	5.30E-05	5.30E-05	1.85E-04	4.30E-04	5.94E-04	1.12E-03	1.24E-03	1.24E-03	6.73E-09	5.90E-04	3.34E-06	5.96E-07	0.00E+00
Minnesota	Statewide	N/A	N/A	4.24E-06	5.58E-06	5.33E-05	4.36E-04	1.35E-03	1.18E-03	2.35E-03	3.48E-03	6.51E-04	6.77E-04	1.33E-05	3.99E-06	0.00E+00
Minnesota	All Urban Counties	N/A	U	2.22E-05	4.87E-05	2.19E-04	7.05E-04	1.65E-03	1.39E-03	2.54E-03	4.13E-03	7.92E-04	8.37E-04	1.69E-05	4.99E-06	0.00E+00
Minnesota	All Rural Counties	N/A	R	1.56E-06	2.63E-06	6.11E-06	1.61E-05	2.86E-04	5.96E-05	3.49E-04	1.15E-03	1.62E-04	1.21E-04	1.17E-06	5.20E-07	0.00E+00
Minnesota	Aitkin County	27001	R	5.17E-06	5.17E-06	8.71E-06	2.29E-05	7.99E-05	2.46E-05	3.38E-04	3.38E-04	7.01E-05	9.27E-06	3.95E-07	1.16E-07	0.00E+00
Minnesota	Anoka County	27003	U	4.01E-04	4.52E-04	7.66E-04	1.02E-03	1.58E-03	1.77E-03	3.00E-03	5.21E-03	3.63E-04	1.19E-03	1.77E-05	3.70E-06	0.00E+00
Minnesota	Becker County	27005	R	4.50E-06	4.56E-06	6.30E-06	9.30E-06	1.47E-05	1.76E-05	3.74E-05	5.61E-05	1.36E-06	1.17E-05	1.25E-06	3.92E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Minnesota	Beltrami County	27007	R	1.25E-05	1.25E-05	1.16E-04	2.21E-04	1.19E-03	1.15E-03	4.40E-03	4.40E-03	1.70E-04	1.02E-03	1.52E-06	2.74E-07	0.00E+00
Minnesota	Benton County	27009	U	9.65E-05	9.65E-05	1.01E-04	1.27E-04	1.35E-04	1.62E-04	1.99E-04	1.99E-04	4.31E-05	8.77E-05	3.78E-06	6.98E-07	0.00E+00
Minnesota	Big Stone County	27011	R	1.37E-05	1.37E-05	1.37E-05	2.17E-05	2.67E-05	4.48E-05	4.48E-05	4.48E-05	2.44E-05	1.27E-06	6.45E-07	4.33E-07	0.00E+00
Minnesota	Blue Earth County	27013	U	9.35E-06	1.37E-05	2.83E-05	1.84E-04	4.70E-04	3.85E-04	2.25E-03	2.47E-03	9.63E-06	4.51E-04	8.18E-06	1.39E-06	0.00E+00
Minnesota	Brown County	27015	U	2.50E-06	2.50E-06	2.83E-06	6.26E-06	1.13E-05	1.75E-05	2.74E-05	2.74E-05	4.55E-07	8.22E-06	2.06E-06	5.89E-07	0.00E+00
Minnesota	Carlton County	27017	R	8.28E-05	8.28E-05	2.13E-04	5.50E-04	9.92E-04	2.37E-03	2.50E-03	2.50E-03	3.87E-04	6.02E-04	1.54E-06	1.33E-06	0.00E+00
Minnesota	Carver County	27019	U	1.91E-05	2.70E-05	3.69E-05	1.83E-04	1.63E-04	2.68E-04	2.95E-04	3.35E-04	1.90E-05	1.37E-04	5.69E-06	1.18E-06	0.00E+00
Minnesota	Cass County	27021	R	1.37E-05	1.37E-05	1.94E-05	3.74E-05	3.74E-05	4.72E-05	7.77E-05	7.77E-05	2.09E-05	1.60E-05	4.12E-07	1.51E-07	0.00E+00
Minnesota	Chippewa County	27023	R	9.22E-06	9.22E-06	1.35E-05	1.52E-05	1.45E-05	1.62E-05	1.83E-05	1.83E-05	4.58E-06	8.25E-06	1.09E-06	5.61E-07	0.00E+00
Minnesota	Chisago County	27025	U	6.54E-05	6.54E-05	7.59E-05	1.94E-04	2.19E-04	3.11E-04	5.00E-04	5.00E-04	6.06E-05	1.55E-04	3.50E-06	6.06E-07	0.00E+00
Minnesota	Clay County	27027	U	3.12E-05	5.14E-05	1.04E-04	3.75E-04	3.82E-04	4.55E-04	7.99E-04	9.96E-04	3.64E-04	1.34E-05	3.59E-06	8.16E-07	0.00E+00
Minnesota	Clearwater County	27029	R	4.47E-05	4.47E-05	4.47E-05	4.55E-05	4.56E-05	4.65E-05	4.65E-05	4.65E-05	1.99E-05	2.52E-05	3.34E-07	1.47E-07	0.00E+00
Minnesota	Cook County	27031	R	7.38E-06	7.38E-06	7.38E-06	4.96E-04	5.14E-04	1.04E-03	1.04E-03	1.04E-03	5.11E-04	1.96E-06	9.54E-08	4.53E-07	0.00E+00
Minnesota	Cottonwood County	27033	R	1.43E-06	1.43E-06	1.44E-06	1.46E-06	1.69E-06	1.94E-06	2.43E-06	2.43E-06	1.44E-07	8.56E-07	3.65E-07	3.28E-07	0.00E+00
Minnesota	Crow Wing County	27035	R	3.62E-05	4.42E-05	5.11E-05	5.97E-05	6.24E-05	6.36E-05	6.87E-05	1.39E-04	4.40E-05	1.66E-05	1.56E-06	2.42E-07	0.00E+00
Minnesota	Dakota County	27037	U	1.82E-04	2.11E-04	2.84E-04	4.39E-04	6.66E-04	1.01E-03	1.63E-03	1.69E-03	1.43E-04	5.04E-04	1.55E-05	3.48E-06	0.00E+00
Minnesota	Dodge County	27039	R	5.30E-05	5.30E-05	8.03E-05	9.93E-05	1.48E-04	1.61E-04	3.49E-04	3.49E-04	1.31E-04	1.61E-05	1.18E-06	3.33E-07	0.00E+00
Minnesota	Douglas County	27041	R	2.49E-06	2.49E-06	3.08E-06	6.33E-06	5.77E-06	7.21E-06	1.58E-05	1.58E-05	1.50E-08	4.20E-06	1.23E-06	3.12E-07	0.00E+00
Minnesota	Faribault County	27043	R	1.71E-06	1.71E-06	5.96E-06	6.32E-06	6.14E-06	7.09E-06	9.42E-06	9.42E-06	1.21E-07	4.85E-06	8.42E-07	3.23E-07	0.00E+00
Minnesota	Fillmore County	27045	R	2.63E-06	2.63E-06	2.84E-06	1.21E-05	1.52E-05	1.93E-05	4.20E-05	4.20E-05	2.88E-06	1.14E-05	6.62E-07	2.49E-07	0.00E+00
Minnesota	Freeborn County	27047	U	2.52E-05	3.24E-05	4.10E-05	1.64E-04	2.51E-04	3.08E-04	7.60E-04	9.19E-04	4.07E-06	2.43E-04	2.93E-06	4.51E-07	0.00E+00
Minnesota	Goodhue County	27049	U	2.68E-05	3.59E-05	4.79E-05	6.12E-05	9.17E-05	1.35E-04	1.86E-04	2.19E-04	2.20E-05	6.51E-05	2.58E-06	2.11E-06	0.00E+00
Minnesota	Grant County	27051	R	2.73E-06	2.73E-06	2.73E-06	3.48E-06	4.34E-06	4.24E-06	4.24E-06	4.24E-06	1.82E-09	2.59E-06	5.64E-07	3.24E-07	0.00E+00
Minnesota	Hennepin County	27053	U	3.41E-04	4.05E-04	5.67E-04	8.17E-04	9.25E-04	1.15E-03	1.61E-03	1.92E-03	1.41E-04	7.51E-04	2.75E-05	5.27E-06	0.00E+00
Minnesota	Houston County	27055	R	3.02E-05	3.02E-05	6.99E-05	9.59E-05	1.30E-04	1.26E-04	3.28E-04	3.28E-04	5.22E-05	7.55E-05	1.26E-06	1.06E-06	0.00E+00
Minnesota	Hubbard County	27057	R	7.64E-05	7.64E-05	9.10E-05	1.36E-04	1.07E-03	3.43E-03	3.43E-03	3.43E-03	2.11E-05	1.04E-03	9.18E-07	1.98E-07	0.00E+00
Minnesota	Isanti County	27059	U	8.98E-05	8.98E-05	9.23E-05	1.56E-04	2.22E-04	2.02E-04	6.35E-04	6.35E-04	2.02E-05	1.99E-04	2.28E-06	4.46E-07	0.00E+00
Minnesota	Itasca County	27061	R	5.46E-04	5.92E-04	9.65E-04	1.65E-03	2.28E-03	3.42E-03	4.80E-03	5.66E-03	1.96E-03	3.19E-04	7.86E-07	1.09E-06	0.00E+00
Minnesota	Jackson County	27063	R	1.66E-06	1.66E-06	1.91E-06	2.42E-06	3.73E-06	5.55E-06	8.42E-06	8.42E-06	8.78E-11	2.41E-06	9.15E-07	4.06E-07	0.00E+00
Minnesota	Kanabec County	27065	R	1.31E-05	1.31E-05	2.45E-05	3.60E-05	3.11E-05	3.76E-05	3.91E-05	3.91E-05	1.93E-06	2.74E-05	1.48E-06	2.51E-07	0.00E+00
Minnesota	Kandiyohi County	27067	R	2.93E-06	5.36E-06	6.05E-06	1.58E-05	1.81E-05	2.24E-05	3.62E-05	5.59E-05	2.98E-06	1.14E-05	3.04E-06	7.09E-07	0.00E+00
Minnesota	Kittson County	27069	R	4.64E-06	4.64E-06	4.64E-06	6.80E-06	6.80E-06	8.96E-06	8.96E-06	8.96E-06	6.26E-06	2.10E-07	1.28E-07	2.04E-07	0.00E+00
Minnesota	Koochiching County	27071	R	8.23E-06	8.23E-06	4.87E-05	1.92E-04	2.83E-04	5.16E-04	7.38E-04	7.38E-04	2.74E-04	5.47E-06	1.86E-06	1.12E-06	0.00E+00
Minnesota	Lac qui Parle County	27073	R	6.33E-06	6.33E-06	6.33E-06	1.40E-05	1.22E-05	1.63E-05	1.63E-05	1.63E-05	8.71E-06	2.77E-06	3.27E-07	3.81E-07	0.00E+00
Minnesota	Lake County	27075	R	6.12E-05	6.12E-05	2.73E-04	7.99E-04	4.47E-03	8.66E-03	1.62E-02	1.62E-02	4.46E-03	7.33E-06	5.14E-07	3.55E-06	0.00E+00
Minnesota	Lake of the Woods County	27077	R	8.74E-07	8.74E-07	8.74E-07	2.73E-06	4.05E-06	8.54E-06	8.54E-06	8.54E-06	8.55E-10	3.53E-06	8.55E-08	4.27E-07	0.00E+00
Minnesota	Le Sueur County	27079	R	3.06E-05	3.06E-05	3.29E-05	3.38E-05	3.68E-05	3.67E-05	5.26E-05	5.26E-05	2.07E-06	3.25E-05	1.73E-06	4.74E-07	0.00E+00
Minnesota	Lincoln County	27081	R	1.11E-06	1.11E-06	1.11E-06	1.45E-06	1.45E-06	1.79E-06	1.79E-06	1.79E-06	4.88E-08	7.32E-07	3.40E-07	3.28E-07	0.00E+00
Minnesota	Lyon County	27083	U	1.69E-06	1.69E-06	2.60E-06	8.84E-06	9.82E-06	1.57E-05	2.07E-05	2.07E-05	5.47E-07	6.91E-06	1.78E-06	5.87E-07	0.00E+00
Minnesota	McLeod County	27085	U	3.71E-06	3.71E-06	1.36E-05	2.00E-05	1.84E-05	2.22E-05	3.36E-05	3.36E-05	5.75E-10	1.48E-05	2.92E-06	6.76E-07	0.00E+00
Minnesota	Mahnomen County	27087	R	4.77E-06	4.77E-06	4.77E-06	6.92E-06	6.92E-06	9.07E-06	9.07E-06	9.07E-06	7.30E-07	5.68E-06	2.35E-07	2.72E-07	0.00E+00
Minnesota	Marshall County	27089	R	6.65E-07	6.65E-07	1.02E-06	5.19E-06	5.55E-06	1.01E-05	1.11E-05	1.11E-05	2.39E-06	2.74E-06	1.88E-07	2.28E-07	0.00E+00
Minnesota	Martin County	27091	R	1.82E-06	1.82E-06	2.76E-06	4.00E-06	6.81E-06	1.41E-05	1.42E-05	1.42E-05	4.47E-09	4.10E-06	2.05E-06	6.55E-07	0.00E+00
Minnesota	Meeker County	27093	R	4.43E-06	4.43E-06	6.70E-06	1.77E-05	1.62E-05	2.34E-05	2.74E-05	2.74E-05	3.73E-06	9.20E-06	2.45E-06	8.29E-07	0.00E+00
Minnesota	Mille Lacs County	27095	R	1.36E-05	1.36E-05	2.99E-05	7.99E-05	7.53E-05	1.16E-04	1.70E-04	1.70E-04	4.61E-05	2.66E-05	2.09E-06	4.24E-07	0.00E+00
Minnesota	Morrison County	27097	R	8.43E-05	8.43E-05	1.01E-04	1.59E-04	1.05E-03	1.87E-03	4.07E-03	4.07E-03	1.69E-06	1.05E-03	1.90E-06	4.73E-07	0.00E+00
Minnesota	Mower County	27099	U	2.92E-06	2.05E-05	4.14E-05	4.63E-05	4.15E-05	5.01E-05	5.29E-05	5.43E-05	1.59E-05	2.29E-05	2.14E-06	5.57E-07	0.00E+00
Minnesota	Murray County	27101	R	1.59E-06	1.59E-06	1.59E-06	3.06E-06	2.72E-06	3.51E-06	3.51E-06	3.51E-06	1.27E-08	1.46E-06	7.01E-07	5.47E-07	0.00E+00
Minnesota	Nicollet County	27103	U	1.00E-05	1.00E-05	3.26E-05	7.10E-05	1.77E-04	1.46E-04	7.31E-04	7.31E-04	6.01E-06	1.65E-04	4.99E-06	7.95E-07	0.00E+00
Minnesota	Nobles County	27105	U	2.42E-06	2.42E-06	2.58E-06	4.93E-06	5.77E-06	9.58E-06	1.02E-05	1.02E-05	9.81E-11	3.80E-06	1.47E-06	5.00E-07	0.00E+00
Minnesota	Norman County	27107	R	5.73E-06	5.73E-06	5.73E-06	1.92E-05	1.49E-05	1.99E-05	1.99E-05	1.99E-05	8.50E-06	5.88E-06	2.01E-07	3.58E-07	0.00E+00
Minnesota	Olmsted County	27109	U	3.88E-05	4.46E-05	6.77E-05	9.94E-05	1.25E-04	1.74E-04	2.24E-04	2.91E-04	8.22E-05	3.81E-05	4.10E-06	6.18E-07	0.00E+00
Minnesota	Otter Tail County	27111	R	2.05E-06	2.23E-06	3.87E-06	5.10E-06	2.01E-05	1.44E-05	1.06E-04	1.14E-04	2.56E-06	1.58E-05	1.42E-06	3.26E-07	0.00E+00
Minnesota	Pennington County	27113	U	9.75E-07	9.75E-07	4.13E-06	8.31E-06	7.78E-06	1.18E-05	1.37E-05	1.37E-05	1.81E-07	6.10E-06	1.13E-06	3.68E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Minnesota	Pine County	27115	R	7.93E-06	7.93E-06	1.32E-05	2.39E-05	3.11E-05	3.07E-05	1.06E-04	1.06E-04	7.83E-06	2.18E-05	1.31E-06	1.55E-07	0.00E+00
Minnesota	Pipestone County	27117	R	1.56E-06	1.56E-06	1.88E-06	2.35E-06	5.80E-06	1.15E-05	1.17E-05	1.17E-05	1.31E-08	4.04E-06	1.15E-06	5.93E-07	0.00E+00
Minnesota	Polk County	27119	U	4.57E-06	4.91E-06	6.07E-06	1.79E-05	1.85E-05	2.63E-05	3.62E-05	4.49E-05	1.09E-05	5.60E-06	1.50E-06	5.46E-07	0.00E+00
Minnesota	Pope County	27121	R	7.88E-06	7.88E-06	9.87E-06	1.27E-05	1.18E-05	1.37E-05	1.40E-05	1.40E-05	1.29E-09	1.08E-05	6.30E-07	3.60E-07	0.00E+00
Minnesota	Ramsey County	27123	U	1.21E-03	1.33E-03	1.49E-03	2.00E-03	2.51E-03	2.65E-03	3.65E-03	5.85E-03	3.08E-04	2.16E-03	2.95E-05	5.54E-06	0.00E+00
Minnesota	Red Lake County	27125	R	2.72E-06	2.72E-06	2.72E-06	3.40E-06	3.40E-06	4.08E-06	4.08E-06	4.08E-06	1.49E-06	1.43E-06	2.33E-07	2.56E-07	0.00E+00
Minnesota	Redwood County	27127	R	1.48E-06	1.48E-06	1.52E-06	4.91E-06	6.54E-06	1.17E-05	1.47E-05	1.47E-05	2.63E-06	2.65E-06	8.14E-07	4.45E-07	0.00E+00
Minnesota	Renville County	27129	R	5.97E-06	5.97E-06	6.82E-06	1.06E-05	9.86E-06	1.19E-05	1.32E-05	1.32E-05	7.78E-06	1.15E-06	5.21E-07	4.10E-07	0.00E+00
Minnesota	Rice County	27131	U	2.28E-05	2.28E-05	2.54E-05	3.54E-05	4.29E-05	4.54E-05	8.94E-05	8.94E-05	7.57E-06	3.14E-05	3.08E-06	9.14E-07	0.00E+00
Minnesota	Rock County	27133	R	2.45E-06	2.45E-06	2.45E-06	4.32E-06	4.28E-06	6.07E-06	6.07E-06	6.07E-06	1.10E-09	2.33E-06	1.23E-06	7.23E-07	0.00E+00
Minnesota	Roseau County	27135	R	6.72E-07	6.72E-07	9.38E-07	7.68E-06	1.17E-05	8.14E-06	4.11E-05	4.11E-05	6.26E-09	1.10E-05	3.04E-07	3.80E-07	0.00E+00
Minnesota	St. Louis County	27137	U	1.04E-04	1.34E-04	2.18E-04	5.60E-04	9.29E-03	9.22E-03	2.80E-02	5.17E-02	9.04E-03	2.25E-04	4.89E-06	2.17E-05	0.00E+00
Minnesota	Scott County	27139	U	5.83E-05	9.68E-05	1.89E-04	2.27E-04	2.14E-04	2.60E-04	2.94E-04	2.95E-04	2.99E-05	1.75E-04	7.10E-06	1.72E-06	0.00E+00
Minnesota	Sherburne County	27141	U	7.58E-05	7.58E-05	1.10E-04	1.68E-04	1.69E-04	1.79E-04	3.59E-04	3.59E-04	6.96E-05	9.11E-05	5.48E-06	2.45E-06	0.00E+00
Minnesota	Sibley County	27143	R	2.78E-06	2.78E-06	7.29E-06	1.24E-05	1.32E-05	1.91E-05	2.52E-05	2.52E-05	7.96E-07	1.10E-05	1.02E-06	4.14E-07	0.00E+00
Minnesota	Stearns County	27145	U	5.98E-06	1.68E-05	5.19E-05	1.87E-04	2.02E-04	2.93E-04	4.31E-04	4.68E-04	2.59E-05	1.72E-04	3.86E-06	9.09E-07	0.00E+00
Minnesota	Steele County	27147	U	2.36E-05	2.36E-05	3.71E-05	5.15E-05	5.78E-05	7.89E-05	1.04E-04	1.04E-04	4.94E-06	4.82E-05	3.78E-06	8.85E-07	0.00E+00
Minnesota	Stevens County	27149	U	6.46E-06	6.46E-06	6.46E-06	1.39E-05	1.17E-05	1.48E-05	1.48E-05	1.48E-05	1.70E-06	8.93E-06	5.38E-07	5.52E-07	0.00E+00
Minnesota	Swift County	27151	U	2.53E-05	2.53E-05	2.58E-05	4.49E-05	6.22E-05	9.85E-05	1.34E-04	1.34E-04	3.39E-06	5.77E-05	6.41E-07	4.35E-07	0.00E+00
Minnesota	Todd County	27153	R	5.12E-06	5.12E-06	7.30E-06	2.01E-05	2.04E-05	3.34E-05	3.70E-05	3.70E-05	3.50E-09	1.96E-05	6.37E-07	2.18E-07	0.00E+00
Minnesota	Traverse County	27155	R	1.12E-06	1.12E-06	1.12E-06	8.19E-06	8.19E-06	1.53E-05	1.53E-05	1.53E-05	7.15E-06	4.42E-07	2.26E-07	3.72E-07	0.00E+00
Minnesota	Wabasha County	27157	R	1.99E-05	1.99E-05	2.12E-05	2.98E-05	2.92E-05	3.51E-05	3.94E-05	3.94E-05	1.18E-05	1.46E-05	1.08E-06	1.71E-06	0.00E+00
Minnesota	Wadena County	27159	R	7.86E-06	7.86E-06	7.86E-06	1.16E-05	1.66E-05	3.04E-05	3.04E-05	3.04E-05	1.21E-06	1.46E-05	5.84E-07	2.50E-07	0.00E+00
Minnesota	Waseca County	27161	R	2.56E-05	2.56E-05	3.46E-05	5.11E-05	4.56E-05	5.33E-05	6.34E-05	6.34E-05	1.31E-06	4.04E-05	3.19E-06	7.46E-07	0.00E+00
Minnesota	Washington County	27163	U	9.85E-04	1.05E-03	1.49E-03	2.31E-03	2.97E-03	3.81E-03	5.18E-03	7.70E-03	4.28E-04	2.53E-03	1.21E-05	5.65E-06	0.00E+00
Minnesota	Watsonwan County	27165	R	2.18E-06	2.18E-06	2.18E-06	6.19E-06	5.52E-06	8.18E-06	8.18E-06	8.18E-06	3.76E-07	3.85E-06	8.74E-07	4.16E-07	0.00E+00
Minnesota	Wilkin County	27167	U	1.79E-04	1.79E-04	1.79E-04	5.42E-04	5.42E-04	9.05E-04	9.05E-04	9.05E-04	3.90E-05	5.01E-04	6.64E-07	7.00E-07	0.00E+00
Minnesota	Winona County	27169	U	3.54E-05	3.76E-05	5.70E-05	2.19E-04	1.72E-03	8.42E-04	7.60E-03	1.43E-02	1.28E-05	1.71E-03	1.43E-06	1.89E-06	0.00E+00
Minnesota	Wright County	27171	U	1.91E-05	2.34E-05	6.73E-05	1.03E-04	1.25E-04	1.75E-04	2.67E-04	3.12E-04	5.10E-05	6.69E-05	4.92E-06	1.90E-06	0.00E+00
Minnesota	Yellow Medicine County	27173	R	1.33E-06	1.33E-06	1.38E-06	2.53E-06	3.58E-06	5.78E-06	7.93E-06	7.93E-06	1.86E-06	9.57E-07	3.81E-07	3.81E-07	0.00E+00
Mississippi	Statewide	N/A	N/A	5.30E-05	9.89E-05	2.76E-04	7.46E-04	4.96E-03	2.15E-03	7.98E-03	1.63E-02	3.93E-03	1.02E-03	6.54E-06	3.38E-06	0.00E+00
Mississippi	All Urban Counties	N/A	U	8.58E-05	1.26E-04	3.06E-04	7.55E-04	5.43E-03	2.62E-03	1.07E-02	3.02E-02	5.01E-03	4.08E-04	9.94E-06	5.82E-06	0.00E+00
Mississippi	All Rural Counties	N/A	R	1.94E-05	7.27E-05	2.45E-04	7.31E-04	4.45E-03	1.94E-03	5.82E-03	1.16E-02	2.75E-03	1.70E-03	2.80E-06	6.99E-07	0.00E+00
Mississippi	Adams County	28001	U	1.25E-02	1.25E-02	3.02E-02	4.73E-02	5.38E-02	6.25E-02	1.08E-01	1.08E-01	5.37E-02	5.50E-05	5.15E-06	1.33E-05	0.00E+00
Mississippi	Alcorn County	28003	R	4.09E-06	4.09E-06	1.29E-04	1.41E-04	1.33E-04	1.68E-04	2.13E-04	2.13E-04	1.23E-04	6.69E-06	2.77E-06	5.32E-07	0.00E+00
Mississippi	Amite County	28005	R	2.51E-04	2.51E-04	2.51E-04	2.61E-04	2.93E-04	3.66E-04	3.66E-04	3.66E-04	1.49E-04	1.43E-04	1.07E-06	3.06E-07	0.00E+00
Mississippi	Attala County	28007	R	5.59E-04	5.59E-04	1.07E-03	1.33E-03	1.20E-03	1.43E-03	1.45E-03	1.45E-03	1.14E-03	5.39E-05	2.04E-06	1.12E-07	0.00E+00
Mississippi	Benton County	28009	R	6.56E-06	6.56E-06	6.56E-06	4.63E-05	4.63E-05	8.60E-05	8.60E-05	8.60E-05	1.19E-06	4.37E-05	1.19E-06	2.23E-07	0.00E+00
Mississippi	Bolivar County	28011	R	8.17E-05	8.17E-05	1.11E-04	2.78E-04	7.85E-04	7.08E-04	3.79E-03	3.79E-03	7.69E-04	9.81E-06	3.34E-06	3.18E-06	0.00E+00
Mississippi	Calhoun County	28013	R	1.05E-03	1.05E-03	2.29E-03	5.21E-03	4.78E-03	7.06E-03	8.27E-03	8.27E-03	1.17E-04	4.66E-03	1.68E-06	2.24E-07	0.00E+00
Mississippi	Carroll County	28015	R	3.53E-03	3.53E-03	3.53E-03	4.92E-03	4.92E-03	6.32E-03	6.32E-03	6.32E-03	4.80E-03	1.23E-04	1.18E-06	1.18E-07	0.00E+00
Mississippi	Chickasaw County	28017	R	6.60E-04	6.60E-04	6.62E-04	7.89E-04	8.71E-04	1.08E-03	1.25E-03	1.25E-03	1.26E-04	7.44E-04	1.77E-06	2.23E-07	0.00E+00
Mississippi	Choctaw County	28019	R	4.18E-04	4.18E-04	4.18E-04	4.95E-04	5.15E-04	6.32E-04	6.32E-04	6.32E-04	2.30E-04	2.83E-04	1.46E-06	8.04E-08	0.00E+00
Mississippi	Claiborne County	28021	R	9.29E-03	9.29E-03	9.29E-03	9.93E-03	1.02E-01	2.87E-01	2.87E-01	2.87E-01	1.02E-01	1.99E-04	1.49E-06	1.10E-05	0.00E+00
Mississippi	Clarke County	28023	R	1.46E-04	1.46E-04	2.09E-04	2.94E-04	3.04E-04	3.98E-04	4.81E-04	4.81E-04	8.81E-05	2.14E-04	1.63E-06	2.25E-07	0.00E+00
Mississippi	Clay County	28025	R	9.81E-04	9.81E-04	1.50E-03	1.73E-03	2.01E-03	2.06E-03	3.79E-03	3.79E-03	7.49E-04	1.26E-03	4.18E-06	5.89E-07	0.00E+00
Mississippi	Coahoma County	28027	U	9.89E-05	9.89E-05	2.63E-04	7.16E-04	4.19E-03	1.05E-03	2.61E-02	2.61E-02	3.98E-03	2.02E-04	4.59E-06	4.33E-06	0.00E+00
Mississippi	Copiah County	28029	R	3.52E-04	3.52E-04	6.39E-04	8.06E-04	7.60E-04	8.50E-04	1.10E-03	1.10E-03	3.26E-04	4.30E-04	2.87E-06	3.28E-07	0.00E+00
Mississippi	Covington County	28031	R	6.95E-04	6.95E-04	9.17E-04	1.16E-03	1.23E-03	1.55E-03	1.92E-03	1.92E-03	8.64E-04	3.68E-04	2.24E-06	2.14E-07	0.00E+00
Mississippi	DeSoto County	28033	U	5.30E-05	6.20E-05	8.28E-05	1.04E-04	1.05E-04	1.28E-04	1.42E-04	1.57E-04	7.24E-05	1.92E-05	8.33E-06	4.61E-06	0.00E+00
Mississippi	Forrest County	28035	U	9.55E-04	1.03E-03	1.13E-03	1.25E-03	1.26E-03	1.36E-03	1.53E-03	1.70E-03	9.07E-04	3.43E-04	8.60E-06	8.50E-07	0.00E+00
Mississippi	Franklin County	28037	R	1.44E-04	1.44E-04	1.44E-04	2.90E-03	2.90E-03	5.66E-03	5.66E-03	5.66E-03	2.85E-03	4.73E-05	6.55E-07	1.47E-06	0.00E+00
Mississippi	George County	28039	R	2.43E-04	2.43E-04	2.43E-04	5.93E-04	5.08E-04	6.87E-04	6.87E-04	6.87E-04	2.69E-04	2.37E-04	1.99E-06	1.75E-07	0.00E+00
Mississippi	Greene County	28041	R	2.72E-04	2.72E-04	2.72E-04	3.64E-04	3.64E-04	4.55E-04	4.55E-04	4.55E-04	1.42E-04	2.21E-04	7.66E-07	6.92E-08	0.00E+00

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State	County	FIPS	Urban or Rural	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
Mississippi	Grenada County	28043	U	5.58E-03	5.58E-03	7.33E-03	7.95E-03	9.86E-03	1.07E-02	1.77E-02	1.77E-02	9.61E-03	2.48E-04	2.72E-06	6.52E-07	0.00E+00
Mississippi	Hancock County	28045	U	1.94E-05	1.94E-05	4.34E-05	4.84E-05	7.52E-05	5.10E-05	2.40E-04	2.40E-04	4.16E-05	2.87E-05	4.00E-06	8.38E-07	0.00E+00
Mississippi	Harrison County	28047	U	8.92E-05	1.64E-04	2.50E-04	3.98E-04	6.75E-04	9.12E-04	1.18E-03	1.26E-03	3.36E-04	3.24E-04	1.06E-05	3.72E-06	0.00E+00
Mississippi	Hinds County	28049	U	4.03E-04	5.14E-04	8.52E-04	2.13E-03	3.11E-03	4.65E-03	7.02E-03	8.45E-03	2.93E-03	1.63E-04	1.76E-05	1.35E-06	0.00E+00
Mississippi	Holmes County	28051	R	2.39E-05	2.39E-05	5.72E-05	1.63E-04	2.67E-04	3.33E-04	7.60E-04	7.60E-04	2.12E-04	5.43E-05	1.14E-06	1.94E-07	0.00E+00
Mississippi	Humphreys County	28053	R	3.66E-04	3.66E-04	3.66E-04	3.90E-04	4.12E-04	4.81E-04	4.81E-04	4.81E-04	1.65E-06	4.08E-04	1.79E-06	4.12E-07	0.00E+00
Mississippi	Issaquena County	28055	R	6.23E-06	6.23E-06	6.23E-06	6.23E-06	6.23E-06	6.23E-06	6.23E-06	6.23E-06	0.00E+00	2.05E-07	2.76E-07	5.75E-06	0.00E+00
Mississippi	Itawamba County	28057	R	1.03E-04	1.03E-04	1.32E-04	1.59E-04	6.63E-04	1.02E-03	1.90E-03	1.90E-03	7.37E-05	5.87E-04	2.02E-06	2.83E-07	0.00E+00
Mississippi	Jackson County	28059	U	2.07E-04	2.26E-04	3.09E-04	4.35E-04	5.65E-04	6.05E-04	1.34E-03	1.54E-03	5.12E-04	3.09E-05	6.41E-06	1.62E-05	0.00E+00
Mississippi	Jasper County	28061	R	9.41E-04	9.41E-04	1.19E-03	1.65E-03	1.55E-03	1.91E-03	1.96E-03	1.96E-03	7.63E-04	7.85E-04	1.64E-06	1.18E-07	0.00E+00
Mississippi	Jefferson County	28063	R	5.11E-03	5.11E-03	5.11E-03	5.15E-03	5.15E-03	5.20E-03	5.20E-03	5.20E-03	5.14E-03	4.83E-06	2.64E-06	6.50E-06	0.00E+00
Mississippi	Jefferson Davis County	28065	R	8.37E-04	8.37E-04	8.37E-04	8.46E-04	8.46E-04	8.55E-04	8.55E-04	8.55E-04	6.79E-04	1.66E-04	1.43E-06	9.78E-08	0.00E+00
Mississippi	Jones County	28067	R	5.85E-04	9.35E-04	9.45E-04	2.96E-03	3.55E-03	5.06E-03	6.55E-03	1.07E-02	3.27E-03	2.74E-04	6.29E-06	3.76E-07	0.00E+00
Mississippi	Kemper County	28069	R	6.95E-04	6.95E-04	6.95E-04	7.69E-04	7.69E-04	8.43E-04	8.43E-04	8.43E-04	1.92E-04	5.75E-04	1.23E-06	9.67E-08	0.00E+00
Mississippi	Lafayette County	28071	R	3.47E-04	3.47E-04	5.45E-04	5.47E-04	7.01E-04	7.45E-04	1.32E-03	1.32E-03	0.00E+00	6.97E-04	3.62E-06	6.15E-07	0.00E+00
Mississippi	Lamar County	28073	R	3.04E-04	3.04E-04	3.22E-04	8.13E-04	7.75E-04	1.13E-03	1.27E-03	1.27E-03	6.21E-04	1.50E-04	3.11E-06	1.94E-07	0.00E+00
Mississippi	Lauderdale County	28075	U	1.85E-04	1.98E-04	2.58E-04	3.47E-04	4.14E-04	4.19E-04	7.26E-04	1.31E-03	3.34E-07	4.02E-04	1.15E-05	7.44E-07	0.00E+00
Mississippi	Lawrence County	28077	R	1.51E-03	1.51E-03	1.51E-03	2.07E-03	1.91E-03	2.15E-03	2.15E-03	2.15E-03	4.98E-04	1.41E-03	1.23E-06	1.35E-07	0.00E+00
Mississippi	Leake County	28079	R	5.56E-04	5.56E-04	7.25E-04	2.57E-03	1.89E-02	5.68E-03	8.52E-02	8.52E-02	1.88E-02	1.13E-04	1.36E-06	2.02E-07	0.00E+00
Mississippi	Lee County	28081	U	1.58E-05	5.95E-05	1.22E-04	3.31E-04	3.63E-04	4.14E-04	4.37E-04	1.63E-03	9.00E-06	3.47E-04	6.89E-06	8.25E-07	0.00E+00
Mississippi	Leflore County	28083	U	9.08E-05	9.08E-05	1.97E-03	3.70E-03	9.97E-03	1.64E-02	3.55E-02	3.55E-02	3.10E-03	6.86E-03	4.60E-06	8.82E-07	0.00E+00
Mississippi	Lincoln County	28085	R	7.92E-05	7.92E-05	1.27E-04	1.45E-04	1.51E-04	1.63E-04	2.47E-04	2.47E-04	2.06E-05	1.28E-04	2.44E-06	3.98E-07	0.00E+00
Mississippi	Lowndes County	28087	R	2.86E-03	3.76E-03	4.22E-03	5.57E-03	9.83E-03	1.04E-02	1.51E-02	1.51E-02	6.51E-03	3.32E-03	6.42E-06	7.78E-07	0.00E+00
Mississippi	Madison County	28089	U	1.54E-04	2.29E-04	3.28E-04	5.24E-04	6.29E-04	8.54E-04	1.17E-03	1.46E-03	5.17E-04	1.02E-04	8.75E-06	9.03E-07	0.00E+00
Mississippi	Marion County	28091	R	5.22E-04	5.22E-04	5.58E-04	1.54E-03	1.64E-02	5.02E-03	8.89E-02	8.89E-02	1.62E-02	1.10E-04	2.44E-06	1.77E-07	0.00E+00
Mississippi	Marshall County	28093	R	1.29E-05	1.29E-05	1.94E-05	3.15E-05	1.84E-04	3.64E-04	4.91E-04	4.91E-04	7.71E-06	1.73E-04	3.15E-06	4.48E-07	0.00E+00
Mississippi	Monroe County	28095	R	1.72E-03	1.72E-03	2.77E-03	3.78E-03	2.12E-02	1.65E-02	1.22E-01	1.22E-01	2.92E-04	2.09E-02	3.56E-06	5.00E-07	0.00E+00
Mississippi	Montgomery County	28097	R	1.20E-03	1.20E-03	1.20E-03	2.98E-03	3.18E-03	5.37E-03	5.37E-03	5.37E-03	3.06E-03	1.16E-04	1.54E-06	1.22E-07	0.00E+00
Mississippi	Neshoba County	28099	R	8.12E-04	8.12E-04	9.94E-04	1.29E-03	2.78E-03	5.85E-03	7.88E-03	7.88E-03	3.14E-04	2.47E-03	2.81E-06	1.66E-07	0.00E+00
Mississippi	Newton County	28101	R	7.37E-04	7.37E-04	7.46E-04	8.40E-04	3.52E-03	1.00E-03	1.43E-02	1.43E-02	4.54E-05	3.47E-03	2.17E-06	1.56E-07	0.00E+00
Mississippi	Noxubee County	28103	R	1.32E-03	1.32E-03	1.32E-03	1.34E-03	5.01E-03	1.24E-02	1.24E-02	1.24E-02	4.80E-03	2.01E-04	2.00E-06	4.01E-07	0.00E+00
Mississippi	Oktibbeha County	28105	U	2.62E-03	2.62E-03	2.90E-03	8.03E-03	1.53E-02	1.27E-02	6.25E-02	6.25E-02	1.43E-02	9.83E-04	3.68E-06	6.81E-07	0.00E+00
Mississippi	Panola County	28107	R	5.36E-06	5.36E-06	6.47E-05	7.19E-05	1.32E-04	1.13E-04	4.63E-04	4.63E-04	9.13E-05	3.61E-05	3.81E-06	4.23E-07	0.00E+00
Mississippi	Pearl River County	28109	R	1.29E-04	1.29E-04	1.93E-04	2.65E-04	4.53E-04	7.85E-04	1.01E-03	1.01E-03	3.98E-04	5.12E-05	3.75E-06	3.26E-07	0.00E+00
Mississippi	Perry County	28111	R	1.89E-03	1.89E-03	1.89E-03	2.05E-03	2.05E-03	2.20E-03	2.20E-03	2.20E-03	8.20E-04	1.23E-03	1.20E-06	8.65E-08	0.00E+00
Mississippi	Pike County	28113	R	2.67E-04	2.67E-04	3.11E-04	4.20E-04	4.72E-04	4.72E-04	9.66E-04	9.66E-04	2.63E-04	2.03E-04	5.35E-06	5.86E-07	0.00E+00
Mississippi	Pontotoc County	28115	R	7.49E-05	7.49E-05	3.55E-04	4.98E-04	4.36E-04	5.55E-04	6.98E-04	6.98E-04	0.00E+00	4.34E-04	2.25E-06	2.60E-07	0.00E+00
Mississippi	Prentiss County	28117	R	9.65E-05	9.65E-05	1.28E-04	1.47E-04	1.59E-04	1.91E-04	2.34E-04	2.34E-04	1.39E-04	1.59E-05	3.89E-06	4.48E-07	0.00E+00
Mississippi	Quitman County	28119	R	1.56E-05	1.56E-05	1.56E-05	1.60E-05	1.82E-05	2.29E-05	2.29E-05	2.29E-05	7.67E-06	8.05E-06	1.71E-06	7.17E-07	0.00E+00
Mississippi	Rankin County	28121	U	1.87E-04	1.99E-04	3.72E-04	5.49E-04	9.61E-04	1.17E-03	1.70E-03	1.70E-03	8.63E-04	8.49E-05	1.16E-05	8.59E-07	0.00E+00
Mississippi	Scott County	28123	R	3.56E-04	3.56E-04	9.77E-04	1.07E-03	1.17E-03	1.75E-03	1.76E-03	1.76E-03	5.33E-04	6.29E-04	2.35E-06	3.41E-07	0.00E+00
Mississippi	Sharkey County	28125	R	2.86E-05	2.86E-05	2.86E-05	3.54E-05	3.54E-05	4.23E-05	4.23E-05	4.23E-05	0.00E+00	2.76E-05	4.55E-06	3.29E-06	0.00E+00
Mississippi	Simpson County	28127	R	3.36E-04	3.36E-04	4.34E-04	5.06E-04	5.07E-04	5.88E-04	6.72E-04	6.72E-04	1.38E-04	3.66E-04	3.13E-06	2.31E-07	0.00E+00
Mississippi	Smith County	28129	R	3.98E-03	3.98E-03	3.98E-03	4.56E-03	6.07E-03	9.66E-03	9.66E-03	9.66E-03	4.42E-03	1.64E-03	1.12E-06	7.29E-08	0.00E+00
Mississippi	Stone County	28131	R	1.44E-02	1.44E-02	1.44E-02	1.70E-02	1.70E-02	1.95E-02	1.95E-02	1.95E-02	1.65E-02	4.31E-04	3.05E-06	3.40E-07	0.00E+00
Mississippi	Sunflower County	28133	R	5.97E-05	5.97E-05	8.76E-05	3.62E-04	2.79E-04	3.67E-04	3.67E-04	3.67E-04	1.40E-04	1.36E-04	2.18E-06	5.48E-07	0.00E+00
Mississippi	Tallahatchie County	28135	R	1.36E-05	1.36E-05	5.25E-04	1.04E-03	1.23E-03	1.93E-03	2.81E-03	2.81E-03	1.08E-03	1.41E-04	2.57E-06	3.92E-07	0.00E+00
Mississippi	Tate County	28137	R	2.49E-05	2.49E-05	2.67E-05	4.58E-05	5.58E-05	8.49E-05	1.07E-04	1.07E-04	5.46E-06	4.64E-05	2.87E-06	1.03E-06	0.00E+00
Mississippi	Tippah County	28139	R	4.87E-06	4.87E-06	5.49E-06	7.51E-06	9.83E-06	1.86E-05	1.86E-05	1.86E-05	0.00E+00	6.65E-06	2.79E-06	1.97E-07	0.00E+00
Mississippi	Tishomingo County	28141	R	1.88E-04	1.88E-04	2.26E-04	3.20E-04	6.78E-04	1.13E-03	1.89E-03	1.89E-03	6.51E-04	2.39E-05	2.18E-06	8.71E-07	0.00E+00
Mississippi	Tunica County	28143	R	4.55E-04	4.55E-04	4.55E-04	4.83E-04	4.83E-04	5.11E-04	5.11E-04	5.11E-04	1.68E-05	4.57E-04	3.51E-06	5.41E-06	0.00E+00
Mississippi	Union County	28145	R	8.51E-06	8.51E-06	9.12E-06	7.72E-05	5.92E-05	8.49E-05	9.82E-05	9.82E-05	0.00E+00	5.60E-05	2.95E-06	2.55E-07	0.00E+00
Mississippi	Walthall County	28147	R	7.96E-04	7.96E-04	7.96E-04	1.36E-03	1.35E-03	1.90E-03	1.90E-03	1.90E-03	8.72E-04	4.80E-04	1.90E-06	1.88E-07	0.00E+00
Mississippi	Warren County	28149	U	1.57E-03	2.23E-03	5.92E-03	7.40E-03	9.72E-03	1.09E-02	1.63E-02	3.45E-02	8.34E-03	1.34E-03	5.39E-06	3.31E-05	0.00E+00

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

State	County	FIPS	Urban or Rural	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	
Mississippi	Washington County	28151	U	4.56E-04	5.99E-04	8.53E-04	1.26E-02	3.08E-02	3.77E-02	5.48E-02	2.52E-01	3.06E-02	1.67E-04	6.49E-06	2.31E-05	0.00E+00	
Mississippi	Wayne County	28153	R	4.93E-05	4.93E-05	8.82E-05	2.28E-04	2.39E-04	3.90E-04	4.50E-04	4.50E-04	1.03E-04	1.34E-04	2.01E-06	2.39E-07	0.00E+00	
Mississippi	Webster County	28155	R	7.87E-04	7.87E-04	7.87E-04	2.10E-03	1.80E-03	2.52E-03	2.52E-03	2.52E-03	4.08E-04	1.39E-03	1.61E-06	1.30E-07	0.00E+00	
Mississippi	Wilkinson County	28157	R	1.07E-03	1.07E-03	1.07E-03	1.09E-03	1.09E-03	1.10E-03	1.10E-03	1.10E-03	1.01E-03	6.78E-05	6.98E-07	6.18E-06	0.00E+00	
Mississippi	Winston County	28159	R	1.47E-03	1.47E-03	2.85E-03	2.94E-03	1.90E-02	1.16E-02	7.62E-02	7.62E-02	1.08E-03	1.79E-02	2.00E-06	1.30E-07	0.00E+00	
Mississippi	Yalobusha County	28161	R	6.18E-04	6.18E-04	6.18E-04	3.82E-03	4.14E-03	7.98E-03	7.98E-03	7.98E-03	3.58E-03	5.58E-04	9.68E-07	1.76E-07	0.00E+00	
Mississippi	Yazoo County	28163	R	1.37E-04	1.37E-04	1.90E-04	8.15E-04	1.05E-02	1.31E-03	5.95E-02	5.95E-02	5.56E-08	1.05E-02	3.13E-06	7.73E-07	0.00E+00	
Missouri	Statewide	N/A	N/A	5.73E-06	1.78E-05	7.24E-05	6.85E-04	2.27E-03	2.14E-03	5.50E-03	1.04E-02	8.28E-04	1.42E-03	1.46E-05	6.47E-06	0.00E+00	
Missouri	All Urban Counties	N/A	U	3.11E-05	6.30E-05	3.46E-04	1.26E-03	2.80E-03	2.73E-03	7.11E-03	1.17E-02	1.10E-03	1.67E-03	1.91E-05	8.48E-06	0.00E+00	
Missouri	All Rural Counties	N/A	R	1.72E-06	2.99E-06	1.09E-05	4.21E-05	7.54E-04	1.47E-04	6.03E-04	2.65E-03	4.50E-05	7.06E-04	1.70E-06	7.45E-07	0.00E+00	
Missouri	Adair County	29001	U	1.25E-06	1.25E-06	1.49E-06	8.93E-06	1.77E-05	2.92E-05	6.16E-05	6.16E-05	0.00E+00	1.29E-05	4.32E-06	5.14E-07	0.00E+00	
Missouri	Andrew County	29003	R	9.93E-05	9.93E-05	1.18E-04	1.87E-04	1.81E-04	2.43E-04	2.49E-04	2.49E-04	5.84E-05	1.19E-04	2.79E-06	5.28E-07	0.00E+00	
Missouri	Atchison County	29005	R	2.24E-05	2.24E-05	2.24E-05	4.08E-05	4.08E-05	5.92E-05	5.92E-05	5.92E-05	2.22E-05	1.66E-05	1.46E-06	5.60E-07	0.00E+00	
Missouri	Audrain County	29007	U	3.73E-06	3.73E-06	4.69E-06	1.23E-05	1.05E-05	1.26E-05	1.64E-05	1.64E-05	1.68E-06	6.62E-06	1.78E-06	3.94E-07	0.00E+00	
Missouri	Barry County	29009	R	4.52E-06	4.52E-06	5.02E-06	6.44E-06	9.08E-06	7.41E-06	2.47E-05	2.47E-05	2.40E-07	6.95E-06	1.64E-06	2.59E-07	0.00E+00	
Missouri	Barton County	29011	R	8.14E-06	8.14E-06	8.14E-06	2.47E-05	6.90E-05	1.74E-04	1.74E-04	1.74E-04	1.19E-05	5.60E-05	8.25E-07	3.15E-07	0.00E+00	
Missouri	Bates County	29013	R	2.59E-05	2.59E-05	2.81E-05	3.43E-05	3.33E-05	3.84E-05	3.85E-05	3.85E-05	3.10E-05	1.39E-06	6.46E-07	2.42E-07	0.00E+00	
Missouri	Benton County	29015	R	1.58E-06	1.58E-06	4.53E-06	2.35E-05	2.11E-05	2.61E-05	4.76E-05	4.76E-05	1.01E-06	1.93E-05	6.16E-07	2.21E-07	0.00E+00	
Missouri	Bollinger County	29017	R	9.78E-06	9.78E-06	9.78E-06	2.03E-05	1.93E-05	2.77E-05	2.77E-05	2.77E-05	2.38E-06	1.54E-05	9.40E-07	5.63E-07	0.00E+00	
Missouri	Boone County	29019	U	7.63E-06	2.11E-05	3.03E-05	4.37E-05	4.78E-05	5.74E-05	9.00E-05	9.10E-05	4.44E-07	4.04E-05	5.95E-06	1.03E-06	0.00E+00	
Missouri	Buchanan County	29021	U	7.04E-05	1.05E-04	1.16E-04	1.87E-04	2.05E-04	2.47E-04	3.53E-04	3.74E-04	1.20E-04	7.49E-05	9.59E-06	1.06E-06	0.00E+00	
Missouri	Butler County	29023	R	3.72E-06	3.72E-06	4.18E-05	4.56E-05	4.86E-05	5.00E-05	1.36E-04	1.36E-04	2.24E-05	2.17E-05	3.83E-06	7.15E-07	0.00E+00	
Missouri	Caldwell County	29025	R	1.82E-06	1.82E-06	1.82E-06	2.10E-06	2.10E-06	2.38E-06	2.38E-06	2.38E-06	4.00E-07	8.32E-07	5.93E-07	2.73E-07	0.00E+00	
Missouri	Callaway County	29027	R	4.65E-06	4.65E-06	9.23E-06	1.38E-05	2.67E-05	3.61E-05	9.06E-05	9.06E-05	1.92E-06	2.26E-05	1.77E-06	4.49E-07	0.00E+00	
Missouri	Camden County	29029	R	3.06E-06	5.23E-06	5.86E-06	1.15E-04	1.91E-04	3.75E-04	4.28E-04	4.87E-04	0.00E+00	1.89E-04	1.71E-06	3.99E-07	0.00E+00	
Missouri	Cape Girardeau County	29031	U	3.44E-05	3.67E-05	8.14E-05	1.15E-04	1.96E-04	2.89E-04	5.15E-04	6.44E-04	1.11E-05	1.68E-04	6.17E-06	1.04E-05	0.00E+00	
Missouri	Carroll County	29033	R	2.22E-06	2.22E-06	2.22E-06	2.99E-06	3.87E-06	6.41E-06	6.41E-06	6.41E-06	7.26E-07	1.99E-06	5.28E-07	6.28E-07	0.00E+00	
Missouri	Carter County	29035	R	1.55E-06	1.55E-06	1.55E-06	1.13E-05	1.13E-05	2.11E-05	2.11E-05	2.11E-05	0.00E+00	1.08E-05	4.20E-07	4.15E-08	0.00E+00	
Missouri	Cass County	29037	U	2.22E-05	2.30E-05	6.36E-05	3.14E-04	2.51E-04	4.19E-04	4.77E-04	4.79E-04	3.13E-05	2.14E-04	5.37E-06	7.13E-07	0.00E+00	
Missouri	Cedar County	29039	R	2.70E-06	2.70E-06	2.70E-06	2.80E-06	4.46E-06	7.87E-06	7.87E-06	7.87E-06	1.31E-06	2.01E-06	8.55E-07	2.84E-07	0.00E+00	
Missouri	Chariton County	29041	R	6.89E-05	6.89E-05	6.89E-05	9.34E-05	1.08E-04	1.63E-04	1.63E-04	1.63E-04	6.14E-05	4.62E-05	3.62E-07	5.15E-07	0.00E+00	
Missouri	Christian County	29043	U	1.09E-04	1.15E-04	1.60E-04	1.75E-04	1.82E-04	2.05E-04	2.53E-04	2.61E-04	2.05E-05	1.58E-04	3.34E-06	2.49E-07	0.00E+00	
Missouri	Clark County	29045	R	7.56E-04	7.56E-04	7.56E-04	1.34E-03	1.58E-03	2.65E-03	2.65E-03	2.65E-03	3.12E-06	1.58E-03	4.74E-07	7.31E-07	0.00E+00	
Missouri	Clay County	29047	U	8.54E-04	9.13E-04	1.43E-03	1.73E-03	1.76E-03	1.98E-03	2.69E-03	3.31E-03	1.86E-04	1.55E-03	1.53E-05	3.01E-06	0.00E+00	
Missouri	Clinton County	29049	U	7.88E-06	7.88E-06	8.32E-06	3.59E-05	3.67E-05	6.51E-05	6.72E-05	6.72E-05	2.66E-05	7.42E-06	2.29E-06	4.02E-07	0.00E+00	
Missouri	Cole County	29051	U	3.32E-05	4.36E-05	1.11E-04	9.24E-04	2.01E-03	2.34E-03	4.58E-03	1.28E-02	6.98E-06	2.00E-03	5.73E-06	1.23E-06	0.00E+00	
Missouri	Cooper County	29053	R	4.64E-05	4.64E-05	5.02E-05	5.10E-05	6.81E-05	8.71E-05	1.06E-04	1.06E-04	8.03E-08	6.34E-05	3.05E-06	1.52E-06	0.00E+00	
Missouri	Crawford County	29055	R	9.90E-06	9.90E-06	1.26E-05	2.00E-05	2.03E-05	2.81E-05	3.15E-05	3.15E-05	0.00E+00	1.90E-05	1.26E-06	1.03E-07	0.00E+00	
Missouri	Dade County	29057	R	4.69E-06	4.69E-06	4.69E-06	3.49E-05	3.49E-05	6.51E-05	6.51E-05	6.51E-05	9.32E-06	2.46E-05	7.40E-07	2.37E-07	0.00E+00	
Missouri	Dallas County	29059	R	1.15E-04	1.15E-04	1.15E-04	2.69E-04	2.44E-04	3.48E-04	3.48E-04	3.48E-04	6.42E-05	1.78E-04	1.27E-06	1.33E-07	0.00E+00	
Missouri	Daviess County	29061	R	2.47E-06	2.47E-06	2.47E-06	3.18E-06	3.18E-06	3.90E-06	3.90E-06	3.90E-06	6.84E-07	9.05E-07	1.33E-06	2.67E-07	0.00E+00	
Missouri	DeKalb County	29063	R	2.18E-06	2.18E-06	2.18E-06	3.08E-06	3.08E-06	3.97E-06	3.97E-06	3.97E-06	1.22E-06	7.89E-07	8.81E-07	1.86E-07	0.00E+00	
Missouri	Dent County	29065	R	3.52E-06	3.52E-06	1.59E-05	3.00E-05	2.62E-05	3.66E-05	4.15E-05	4.15E-05	0.00E+00	2.51E-05	9.75E-07	1.85E-07	0.00E+00	
Missouri	Douglas County	29067	R	3.27E-05	3.27E-05	3.27E-05	4.21E-05	4.32E-05	5.48E-05	5.48E-05	5.48E-05	8.93E-06	3.38E-05	4.43E-07	7.45E-08	0.00E+00	
Missouri	Dunklin County	29069	R	3.12E-04	3.12E-04	3.72E-04	5.01E-04	4.57E-04	5.47E-04	5.56E-04	5.61E-04	2.45E-04	2.08E-04	2.99E-06	1.02E-06	0.00E+00	
Missouri	Franklin County	29071	U	3.00E-05	3.38E-05	4.06E-05	9.45E-05	1.39E-04	1.45E-04	4.00E-04	5.09E-04	5.88E-05	7.47E-05	4.83E-06	8.09E-07	0.00E+00	
Missouri	Gasconade County	29073	R	8.44E-06	8.44E-06	1.09E-05	1.98E-05	2.23E-05	3.42E-05	3.83E-05	3.83E-05	5.73E-07	1.94E-05	1.44E-06	8.84E-07	0.00E+00	
Missouri	Gentry County	29075	R	1.51E-05	1.51E-05	1.51E-05	1.69E-05	1.69E-05	1.88E-05	1.88E-05	1.88E-05	0.00E+00	1.63E-05	4.53E-07	1.62E-07	0.00E+00	
Missouri	Greene County	29077	U	2.29E-04	3.24E-04	4.61E-04	8.03E-04	1.71E-03	1.38E-03	2.81E-03	4.17E-03	1.7E-03	3.30E-05	1.67E-03	1.03E-05	8.88E-07	0.00E+00
Missouri	Grundy County	29079	U	2.60E-06	2.60E-06	5.09E-06	1.25E-05	1.39E-05	2.26E-05	2.79E-05	2.79E-05	8.45E-06	3.32E-06	1.62E-06	4.67E-07	0.00E+00	
Missouri	Harrison County	29081	R	1.33E-06	1.33E-06	1.33E-06	1.72E-06	3.36E-06	7.05E-06	7.05E-06	7.05E-06	2.43E-07					

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Missouri	Howard County	29089	R	4.76E-05	4.76E-05	4.76E-05	1.12E-04	1.59E-04	3.17E-04	3.17E-04	3.17E-04	3.18E-05	1.25E-04	9.35E-07	7.97E-07	0.00E+00
Missouri	Howell County	29091	R	4.03E-05	4.03E-05	2.12E-04	4.29E-04	1.34E-03	1.71E-03	5.95E-03	5.95E-03	8.51E-04	4.83E-04	2.17E-06	2.69E-07	0.00E+00
Missouri	Iron County	29093	R	7.58E-06	7.58E-06	3.45E-05	7.60E-05	6.72E-05	1.00E-04	1.09E-04	1.09E-04	6.50E-05	1.57E-06	5.78E-07	5.70E-08	0.00E+00
Missouri	Jackson County	29095	U	3.01E-04	3.81E-04	6.90E-04	1.26E-03	1.99E-03	2.50E-03	4.24E-03	5.12E-03	5.65E-05	1.91E-03	2.17E-05	4.31E-06	0.00E+00
Missouri	Jasper County	29097	U	1.67E-04	2.42E-04	3.63E-04	4.72E-04	5.14E-04	6.42E-04	8.72E-04	8.74E-04	3.88E-05	4.67E-04	7.43E-06	4.83E-07	0.00E+00
Missouri	Jefferson County	29099	U	3.75E-05	3.90E-05	9.34E-05	3.96E-04	4.37E-04	7.55E-04	8.36E-04	1.06E-03	3.04E-04	1.18E-04	1.17E-05	2.80E-06	0.00E+00
Missouri	Johnson County	29101	R	5.13E-06	5.13E-06	3.72E-05	4.81E-05	4.57E-05	5.57E-05	7.77E-05	7.77E-05	2.99E-06	3.90E-05	3.35E-06	4.15E-07	0.00E+00
Missouri	Knox County	29103	R	1.13E-06	1.13E-06	1.13E-06	1.31E-06	1.31E-06	1.50E-06	1.50E-06	1.50E-06	2.01E-07	5.20E-07	2.93E-07	2.97E-07	0.00E+00
Missouri	Laclede County	29105	R	2.09E-04	2.09E-04	9.94E-04	4.47E-03	1.48E-02	5.95E-03	7.28E-02	7.28E-02	9.16E-06	1.48E-02	4.76E-06	4.53E-07	0.00E+00
Missouri	Lafayette County	29107	U	2.67E-06	2.67E-06	5.74E-06	3.55E-05	4.59E-05	7.23E-05	1.23E-04	1.23E-04	1.85E-06	4.17E-05	1.69E-06	5.91E-07	0.00E+00
Missouri	Lawrence County	29109	R	1.35E-05	1.35E-05	1.53E-05	2.87E-05	3.33E-05	5.32E-05	6.01E-05	6.01E-05	6.77E-06	2.39E-05	2.32E-06	2.82E-07	0.00E+00
Missouri	Lewis County	29111	R	3.51E-03	3.51E-03	4.76E-03	6.02E-03	7.75E-03	1.08E-02	1.55E-02	1.55E-02	3.64E-05	7.72E-03	4.11E-07	7.65E-07	0.00E+00
Missouri	Lincoln County	29113	U	5.85E-05	5.85E-05	8.66E-05	1.24E-04	1.31E-04	1.83E-04	2.01E-04	2.01E-04	1.02E-04	2.39E-05	3.25E-06	1.63E-06	0.00E+00
Missouri	Linn County	29115	R	1.72E-06	1.72E-06	3.69E-05	4.08E-05	3.80E-05	5.07E-05	5.97E-05	5.97E-05	3.38E-05	3.03E-06	7.02E-07	4.42E-07	0.00E+00
Missouri	Livingston County	29117	U	5.47E-06	5.47E-06	8.05E-06	1.75E-05	1.93E-05	3.02E-05	3.51E-05	3.51E-05	6.14E-06	9.53E-06	2.98E-06	6.25E-07	0.00E+00
Missouri	McDonald County	29119	R	1.09E-05	1.09E-05	1.14E-05	1.38E-05	4.55E-05	7.95E-05	1.43E-04	1.43E-04	3.30E-06	4.02E-05	1.76E-06	2.18E-07	0.00E+00
Missouri	Macon County	29121	R	1.12E-06	1.12E-06	4.78E-05	6.21E-05	5.05E-05	6.71E-05	7.45E-05	7.45E-05	4.71E-05	2.38E-06	7.78E-07	2.97E-07	0.00E+00
Missouri	Madison County	29123	R	1.56E-05	1.56E-05	1.56E-05	2.39E-05	2.13E-05	2.44E-05	2.44E-05	2.44E-05	1.73E-05	2.75E-06	1.10E-06	1.64E-07	0.00E+00
Missouri	Maries County	29125	R	5.16E-05	5.16E-05	5.16E-05	7.29E-05	6.88E-05	8.21E-05	8.21E-05	8.21E-05	2.31E-07	6.76E-05	8.42E-07	1.22E-07	0.00E+00
Missouri	Marion County	29127	U	3.51E-03	3.51E-03	8.70E-03	1.06E-02	1.06E-02	1.37E-02	1.56E-02	1.56E-02	4.25E-05	1.06E-02	4.24E-06	1.93E-06	0.00E+00
Missouri	Mercer County	29129	R	1.06E-06	1.06E-06	1.06E-06	1.37E-06	1.37E-06	1.67E-06	1.67E-06	1.67E-06	4.41E-07	4.54E-07	3.06E-07	1.65E-07	0.00E+00
Missouri	Miller County	29131	R	2.78E-06	2.78E-06	2.89E-06	1.23E-05	1.29E-05	2.15E-05	2.51E-05	2.51E-05	3.47E-08	1.12E-05	1.45E-06	2.18E-07	0.00E+00
Missouri	Mississippi County	29133	U	5.64E-05	5.64E-05	5.67E-05	6.20E-05	6.21E-05	6.74E-05	6.78E-05	6.78E-05	3.67E-05	1.22E-05	3.52E-06	9.70E-06	0.00E+00
Missouri	Moniteau County	29135	R	3.98E-05	3.98E-05	8.37E-05	1.72E-04	1.51E-04	2.18E-04	2.20E-04	2.20E-04	1.22E-06	1.47E-04	1.81E-06	5.83E-07	0.00E+00
Missouri	Monroe County	29137	R	2.12E-06	2.12E-06	2.12E-06	3.15E-05	9.81E-04	2.91E-03	2.91E-03	2.91E-03	1.17E-05	9.68E-04	3.50E-07	2.85E-07	0.00E+00
Missouri	Montgomery County	29139	R	9.55E-06	9.55E-06	9.80E-06	1.10E-05	1.69E-05	2.39E-05	3.60E-05	3.60E-05	6.59E-06	8.96E-06	1.02E-06	2.92E-07	0.00E+00
Missouri	Morgan County	29141	R	3.25E-06	3.25E-06	3.84E-06	3.37E-05	2.56E-05	3.96E-05	4.75E-05	4.75E-05	0.00E+00	2.42E-05	1.04E-06	2.93E-07	0.00E+00
Missouri	New Madrid County	29143	R	1.47E-04	1.47E-04	4.25E-04	6.49E-04	6.02E-04	7.79E-04	9.66E-04	9.66E-04	2.45E-04	3.50E-04	2.91E-06	4.67E-06	0.00E+00
Missouri	Newton County	29145	R	1.23E-05	8.82E-05	1.87E-04	2.69E-04	2.46E-04	3.09E-04	3.56E-04	3.94E-04	1.78E-05	2.25E-04	2.91E-06	3.06E-07	0.00E+00
Missouri	Nodaway County	29147	R	1.16E-04	1.16E-04	1.52E-04	1.65E-04	1.74E-03	3.01E-03	5.24E-03	5.24E-03	3.67E-06	1.73E-03	2.76E-06	7.56E-07	0.00E+00
Missouri	Oregon County	29149	R	4.69E-05	4.69E-05	4.69E-05	1.03E-04	9.53E-05	1.36E-04	1.36E-04	1.36E-04	2.45E				

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Missouri	Scotland County	29199	R	3.31E-05	3.31E-05	3.31E-05	3.54E-05	3.54E-05	3.77E-05	3.77E-05	3.77E-05	1.32E-05	2.16E-05	4.40E-07	2.49E-07	0.00E+00
Missouri	Scott County	29201	U	4.26E-05	4.79E-05	5.56E-05	1.26E-04	1.12E-04	1.43E-04	1.90E-04	2.20E-04	3.46E-05	6.67E-05	4.63E-06	6.55E-06	0.00E+00
Missouri	Shannon County	29203	R	3.51E-05	3.51E-05	3.51E-05	1.21E-04	1.21E-04	2.07E-04	2.07E-04	2.07E-04	7.53E-06	1.13E-04	4.02E-07	3.54E-08	0.00E+00
Missouri	Shelby County	29205	R	4.19E-06	4.19E-06	4.19E-06	2.49E-05	6.79E-05	1.75E-04	1.75E-04	1.75E-04	1.02E-05	5.71E-05	3.34E-07	2.45E-07	0.00E+00
Missouri	Stoddard County	29207	R	2.18E-05	2.18E-05	9.02E-05	2.07E-04	5.74E-04	5.55E-04	2.86E-03	2.86E-03	4.19E-05	5.28E-04	2.86E-06	1.02E-06	0.00E+00
Missouri	Stone County	29209	R	1.22E-05	1.22E-05	1.30E-05	6.84E-05	5.93E-05	1.00E-04	1.03E-04	1.03E-04	2.39E-06	5.49E-05	1.59E-06	4.09E-07	0.00E+00
Missouri	Sullivan County	29211	R	9.96E-07	9.96E-07	9.96E-07	1.23E-06	1.84E-06	3.30E-06	3.30E-06	3.30E-06	1.47E-07	1.19E-06	3.51E-07	1.47E-07	0.00E+00
Missouri	Taney County	29213	R	5.73E-06	5.73E-06	1.12E-05	5.24E-04	3.99E-04	6.08E-04	8.46E-04	8.46E-04	2.52E-07	3.97E-04	1.92E-06	3.36E-07	0.00E+00
Missouri	Texas County	29215	R	3.44E-06	3.44E-06	6.12E-06	9.18E-06	8.24E-06	1.04E-05	1.12E-05	1.12E-05	8.53E-07	6.87E-06	4.52E-07	6.36E-08	0.00E+00
Missouri	Vernon County	29217	R	1.61E-06	1.61E-06	2.40E-06	9.93E-06	1.28E-05	2.47E-05	2.80E-05	2.80E-05	4.72E-06	5.20E-06	2.54E-06	2.91E-07	0.00E+00
Missouri	Warren County	29219	U	8.27E-05	8.27E-05	9.48E-05	1.17E-04	1.24E-04	1.54E-04	1.82E-04	1.82E-04	8.17E-05	3.88E-05	3.19E-06	7.83E-07	0.00E+00
Missouri	Washington County	29221	R	2.24E-06	2.24E-06	3.34E-06	1.18E-05	1.20E-05	2.08E-05	2.17E-05	2.17E-05	7.36E-06	2.62E-06	1.86E-06	1.55E-07	0.00E+00
Missouri	Wayne County	29223	R	1.63E-06	1.63E-06	3.95E-06	9.72E-06	1.19E-05	1.99E-05	2.65E-05	2.65E-05	8.89E-06	2.28E-06	6.52E-07	8.91E-08	0.00E+00
Missouri	Webster County	29225	U	2.79E-04	2.79E-04	3.95E-04	5.34E-04	9.19E-04	1.44E-03	2.33E-03	2.33E-03	6.15E-04	3.03E-04	1.68E-06	2.35E-07	0.00E+00
Missouri	Worth County	29227	R	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06	0.00E+00	6.52E-06	2.18E-07	1.34E-07	0.00E+00
Missouri	Wright County	29229	R	4.60E-05	4.60E-05	5.65E-05	7.85E-05	7.78E-05	9.91E-05	1.08E-04	1.08E-04	9.48E-06	6.75E-05	7.19E-07	1.55E-07	0.00E+00
Missouri	St. Louis city	29510	U	1.96E-03	2.27E-03	3.21E-03	6.54E-03	9.56E-03	1.13E-02	1.79E-02	2.12E-02	3.68E-03	5.79E-03	4.36E-05	4.58E-05	0.00E+00
Montana	Statewide	N/A	N/A	1.44E-07	2.19E-07	6.92E-07	1.51E-05	1.40E-04	7.12E-05	3.48E-04	5.72E-04	7.74E-05	5.98E-05	1.89E-06	4.53E-07	0.00E+00
Montana	All Urban Counties	N/A	U	3.90E-07	1.96E-06	1.07E-05	2.99E-05	1.37E-04	1.26E-04	4.81E-04	6.36E-04	5.68E-05	7.63E-05	3.29E-06	7.37E-07	0.00E+00
Montana	All Rural Counties	N/A	R	1.00E-07	1.47E-07	2.66E-07	1.37E-06	1.42E-04	3.62E-05	2.24E-04	3.92E-04	9.57E-05	4.53E-05	6.43E-07	2.01E-07	0.00E+00
Montana	Beaverhead County	30001	R	1.51E-07	1.51E-07	1.51E-07	6.70E-07	1.57E-06	3.88E-06	3.88E-06	3.88E-06	0.00E+00	1.14E-06	2.68E-07	1.54E-07	0.00E+00
Montana	Big Horn County	30003	R	9.62E-08	9.62E-08	4.80E-07	6.41E-07	9.98E-06	1.89E-05	3.92E-05	3.92E-05	6.49E-06	3.27E-06	1.65E-07	6.14E-08	0.00E+00
Montana	Blaine County	30005	R	1.97E-07	1.97E-07	2.12E-07	2.47E-07	2.41E-07	2.69E-07	2.72E-07	2.72E-07	0.00E+00	1.16E-07	5.81E-08	6.66E-08	0.00E+00
Montana	Broadwater County	30007	R	2.33E-04	2.33E-04	2.33E-04	2.76E-04	2.76E-04	3.18E-04	3.18E-04	3.18E-04	1.33E-10	2.74E-04	5.68E-07	5.96E-07	0.00E+00
Montana	Carbon County	30009	R	1.91E-07	1.91E-07	3.66E-07	3.46E-06	6.37E-06	3.68E-06	2.42E-05	2.42E-05	5.18E-06	7.11E-07	4.02E-07	8.46E-08	0.00E+00
Montana	Carter County	30011	R	7.52E-08	7.52E-08	7.52E-08	7.52E-08	7.52E-08	7.52E-08	7.52E-08	7.52E-08	0.00E+00	3.26E-08	1.29E-08	2.97E-08	0.00E+00
Montana	Cascade County	30013	U	1.96E-06	2.85E-06	1.07E-05	2.07E-05	2.65E-05	2.75E-05	3.71E-05	7.12E-05	7.18E-06	1.58E-05	2.96E-06	5.73E-07	0.00E+00
Montana	Chouteau County	30015	R	1.72E-07	1.72E-07	2.24E-07	4.10E-07	4.06E-07	5.88E-07	6.31E-07	6.31E-07	0.00E+00	2.13E-07	8.60E-08	1.07E-07	0.00E+00
Montana	Custer County	30017	U	3.29E-07	3.29E-07	3.59E-06	8.36E-06	8.37E-06	1.35E-05	1.61E-05	1.61E-05	0.00E+00	6.60E-06	1.43E-06	3.40E-07	0.00E+00
Montana	Daniels County	30019	R	1.44E-07	1.44E-07	1.50E-07	1.97E-07	2.03E-07	2.56E-07	2.73E-07	2.73E-07	0.00E+00	6.91E-08	1.31E-08	1.21E-07	0.00E+00
Montana	Dawson County	30021	U	3.90E-07	3.90E-07	3.90E-07	3.78E-06	2.65E-06	3.78E-06	3.78E-06	3.					

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

State	County	FIPS	Urban or Rural	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
Montana	Petroleum County	30069	R	2.71E-08	2.71E-08	2.71E-08	2.71E-08	2.71E-08	2.71E-08	2.71E-08	2.71E-08	0.00E+00	1.25E-08	2.43E-09	1.22E-08	0.00E+00
Montana	Phillips County	30071	R	1.49E-07	1.49E-07	1.49E-07	2.79E-07	2.54E-07	3.35E-07	3.35E-07	3.35E-07	0.00E+00	1.23E-07	4.82E-08	8.30E-08	0.00E+00
Montana	Pondera County	30073	R	2.04E-07	2.04E-07	2.04E-07	3.79E-07	4.69E-07	8.23E-07	8.23E-07	8.23E-07	0.00E+00	2.66E-07	9.60E-08	1.07E-07	0.00E+00
Montana	Powder River County	30075	R	5.43E-08	5.43E-08	5.43E-08	5.43E-08	5.43E-08	5.43E-08	5.43E-08	5.43E-08	0.00E+00	2.83E-08	1.00E-08	1.59E-08	0.00E+00
Montana	Powell County	30077	U	4.45E-06	4.45E-06	4.45E-06	1.70E-05	1.70E-05	2.95E-05	2.95E-05	2.95E-05	2.04E-11	1.67E-05	1.70E-07	1.08E-07	0.00E+00
Montana	Prairie County	30079	R	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	0.00E+00	4.67E-08	5.68E-08	4.79E-08	0.00E+00
Montana	Ravalli County	30081	R	2.30E-05	2.30E-05	4.41E-05	7.30E-05	1.34E-04	1.51E-04	5.09E-04	5.09E-04	8.30E-07	1.31E-04	1.09E-06	9.48E-08	0.00E+00
Montana	Richland County	30083	R	8.36E-07	8.36E-07	1.06E-06	3.64E-06	3.54E-06	6.02E-06	6.05E-06	6.05E-06	5.71E-07	2.34E-06	4.24E-07	2.05E-07	0.00E+00
Montana	Roosevelt County	30085	R	2.59E-07	2.59E-07	2.88E-07	3.82E-07	1.22E-06	9.04E-07	4.28E-06	4.28E-06	7.59E-08	5.63E-07	4.38E-07	1.46E-07	0.00E+00
Montana	Rosebud County	30087	R	5.01E-04	5.01E-04	6.33E-04	7.93E-04	3.34E-03	6.04E-03	1.13E-02	1.13E-02	3.34E-03	7.74E-07	2.12E-07	8.31E-08	0.00E+00
Montana	Sanders County	30089	R	5.06E-05	5.06E-05	6.33E-05	1.50E-04	1.44E-04	2.25E-04	2.25E-04	2.25E-04	1.55E-06	1.42E-04	1.33E-07	1.21E-07	0.00E+00
Montana	Sheridan County	30091	R	1.32E-07	1.32E-07	1.86E-07	2.63E-07	2.47E-07	3.07E-07	3.28E-07	3.28E-07	0.00E+00	1.02E-07	4.46E-08	1.00E-07	0.00E+00
Montana	Silver Bow County	30093	U	3.60E-06	3.60E-06	1.72E-05	2.29E-05	2.24E-05	3.10E-05	3.31E-05	3.31E-05	1.24E-12	1.66E-05	5.35E-06	4.11E-07	0.00E+00
Montana	Stillwater County	30095	R	2.54E-07	2.54E-07	5.34E-07	9.32E-07	3.15E-06	1.75E-06	1.05E-05	1.05E-05	2.61E-06	2.68E-07	1.78E-07	1.36E-07	0.00E+00
Montana	Sweet Grass County	30097	R	7.94E-07	7.94E-07	7.94E-07	7.94E-07	7.94E-07	7.94E-07	7.94E-07	7.94E-07	4.84E-07	9.76E-08	1.07E-07	1.05E-07	0.00E+00
Montana	Teton County	30099	R	1.25E-07	1.25E-07	1.25E-07	3.68E-07	2.90E-07	3.75E-07	3.75E-07	3.75E-07	0.00E+00	1.53E-07	5.80E-08	7.87E-08	0.00E+00
Montana	Toole County	30101	U	2.49E-07	2.49E-07	2.49E-07	2.92E-07	2.92E-07	3.34E-07	3.34E-07	3.34E-07	0.00E+00	1.00E-07	9.48E-08	9.65E-08	0.00E+00
Montana	Treasure County	30103	R	2.33E-07	2.33E-07	2.33E-07	2.33E-07	2.33E-07	2.33E-07	2.33E-07	2.33E-07	0.00E+00	8.11E-08	8.95E-08	6.25E-08	0.00E+00
Montana	Valley County	30105	R	1.61E-07	1.61E-07	2.09E-07	3.38E-07	7.14E-07	1.38E-06	1.49E-06	1.49E-06	0.00E+00	2.19E-07	3.34E-07	1.61E-07	0.00E+00
Montana	Wheatland County	30107	R	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	0.00E+00	4.70E-08	2.03E-08	3.30E-08	0.00E+00
Montana	Wibaux County	30109	R	5.12E-07	5.12E-07	5.12E-07	5.12E-07	5.12E-07	5.12E-07	5.12E-07	5.12E-07	0.00E+00	1.90E-07	1.47E-07	1.75E-07	0.00E+00
Montana	Yellowstone County	30111	U	5.02E-05	6.61E-05	8.07E-05	1.50E-04	2.66E-04	3.47E-04	5.72E-04	6.65E-04	2.49E-04	1.20E-05	3.79E-06	9.94E-07	0.00E+00
Nebraska	Statewide	N/A	N/A	4.04E-07	1.27E-06	3.67E-05	6.37E-04	1.51E-03	1.83E-03	5.53E-03	5.22E-03	2.91E-04	1.21E-03	5.83E-06	1.09E-06	0.00E+00
Nebraska	All Urban Counties	N/A	U	1.03E-05	4.17E-05	3.67E-04	1.01E-03	1.92E-03	2.46E-03	3.93E-03	5.85E-03	3.83E-04	1.52E-03	7.75E-06	1.36E-06	0.00E+00
Nebraska	All Rural Counties	N/A	R	1.59E-07	2.13E-07	6.45E-07	1.12E-05	4.01E-04	6.98E-05	3.82E-04	6.83E-04	4.02E-05	3.60E-04	6.12E-07	3.44E-07	0.00E+00
Nebraska	Adams County	31001	U	4.83E-06	4.83E-06	2.18E-05	2.94E-05	3.07E-05	3.83E-05	5.81E-05	5.81E-05	5.53E-06	2.05E-05	3.66E-06	9.72E-07	0.00E+00
Nebraska	Antelope County	31003	R	6.08E-07	6.08E-07	6.08E-07	6.45E-07	1.59E-06	3.50E-06	3.50E-06	3.50E-06	0.00E+00	4.56E-07	8.13E-07	3.16E-07	0.00E+00
Nebraska	Arthur County	31005	R	2.04E-07	2.04E-07	2.04E-07	2.04E-07	2.04E-07	2.04E-07	2.04E-07	2.04E-07	0.00E+00	4.82E-08	7.75E-08	7.87E-08	0.00E+00
Nebraska	Banner County	31007	R	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	8.34E-07	4.98E-07	1.93E-07	1.36E-07	0.00E+00
Nebraska	Blaine County	31009	R	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	2.01E-07	0.00E+00	3.23E-08	1.58E-08	1.52E-07	0.00E+00
Nebraska	Boone County	31011	R	8.65E-07	8.65E-07	8.65E-07	1.75E-06	1.75E-06	2.63E-06	2.63E-06	2.63E-06	0.00E+00	7.92E-07	6.16E-07	3.41E-07	0.00E+00
Nebraska	Box Butte County	31013	U	4.84E-07	4.84E-07	4.84E-07	4.84E-07	4.84E-07	6.46E-06	6.46E-06	6.46E-06	0.00E+00	2.40E-06	6.52E-07	5.47E-07	0.00E+00
Nebraska	Boyd County	31015	R	9.12E-06	9.12E-06	9.12E-06	9.12E-06	9.12E-06	9.12E-06	9.12E-06	9.12E-06	0.00E+00	8.74E-06	1.44E-07	2.45E-07	0.00E+00
Nebraska	Brown County	31017	R	1.78E-07	1.78E-07	1.78E-07	1.78E-07	1.78E-07	1.78E-07	1.78E-07	1.78E-07	0.00E+00	5.38E-08	6.91E-08	5.50E-08	0.00E+00
Nebraska	Buffalo County	31019	U	9.19E-06	1.60E-05	2.66E-05	5.90E-05	1.10E-04	8.79E-05	3.55E-04	6.04E-04	3.87E-07	1.05E-04	3.48E-06	9.79E-07	0.00E+00
Nebraska	Burt County	31021	R	6.47E-06	6.47E-06	6.69E-06	3.83E-05	5.86E-05	1.10E-04	1.51E-04	1.51E-04	5.52E-05	2.50E-06	5.44E-07	3.10E-07	0.00E+00
Nebraska	Butler County	31023	R	5.72E-05	5.72E-05	5.72E-05	6.18E-05	6.48E-05	7.55E-05	7.55E-05	7.55E-05	1.79E-05	4.55E-05	9.23E-07	5.22E-07	0.00E+00
Nebraska	Cass County	31025	U	2.86E-05	2.86E-05	1.57E-04	4.11E-04	4.07E-04	6.68E-04	7.64E-04	7.64E-04	9.50E-05	3.09E-04	2.25E-06	7.24E-07	0.00E+00
Nebraska	Cedar County	31027	R	3.59E-05	3.59E-05	3.59E-05	1.71E-04	1.71E-04	3.06E-04	3.06E-04	3.06E-04	1.91E-05	1.51E-04	4.61E-07	2.88E-07	0.00E+00
Nebraska	Chase County	31029	R	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	3.51E-07	0.00E+00	7.92E-08	1.24E-07	1.47E-07	0.00E+00
Nebraska	Cherry County	31031	R	5.57E-08	5.57E-08	5.57E-08	1.39E-07	1.39E-07	2.23E-07	2.23E-07	2.23E-07	0.00E+00	3.73E-08	3.00E-08	7.19E-08	0.00E+00
Nebraska	Cheyenne County	31033	U	5.34E-07	5.34E-07	5.34E-07	2.69E-06	2.59E-06	4.56E-06	4.56E-06	4.56E-06	0.00E+00	1.52E-06	6.28E-07	4.46E-07	0.00E+00
Nebraska	Clay County	31035	R	4.75E-06	4.75E-06	4.75E-06	9.28E-06	9.28E-06	1.38E-05	1.38E-05	1.38E-05	3.95E-06	4.59E-06	3.34E-07	3.97E-07	0.00E+00
Nebraska	Colfax County	31037	R	4.70E-05	4.70E-05	4.70E-05	1.35E-04	1.27E-04	1.98E-04	1.98E-04	1.98E-04	4.21E-05	8.34E-05	8.18E-07	5.06E-07	0.00E+00
Nebraska	Cuming County	31039	R	4.74E-06	4.74E-06	1.83E-05	3.28E-05	1.05E-04	1.92E-04	3.50E-04	3.50E-04	1.89E-05	8.53E-05	4.93E-07	3.86E-07	0.00E+00
Nebraska	Custer County	31041	R	2.37E-07	2.37E-07	3.43E-07	4.67E-07	1.03E-06	1.71E-06	2.94E-06	2.94E-06	0.00E+00	5.88E-07	2.08E-07	2.32E-07	0.00E+00
Nebraska	Dakota County	31043	U	7.49E-04	7.49E-04	7.60E-04	8.05E-04	8.38E-04	9.15E-04	9.91E-04	9.91E-04	5.17E-04	3.13E-04	6.41E-06	9.88E-07	0.00E+00
Nebraska	Dawes County	31045	U	1.46E-07	1.46E-07	1.46E-07	1.12E-06	1.12E-06	2.10E-06	2.10E-06	2.10E-06	0.00E+00	4.32E-07	5.51E-07	1.41E-07	0.00E+00
Nebraska	Dawson County	31047	U	5.48E-06	5.48E-06	1.02E-04	1.03E-04	2.99E-04	2.51E-04	1.31E-03	1.31E-03	6.02E-06	2.91E-04	1.74E-06	6.11E-07	0.00E+00
Nebraska	Deuel County	31049	R	8.73E-07	8.73E-07	8.73E-07	8.73E-07	8.73E-07	8.73E-07	8.73E-07	8.73E-07	0.00E+00	9.92E-08	5.61E-07	2.14E-07	0.00E+00
Nebraska	Dixon County	31051	R	2.88E-04	2.88E-04	2.88E-04	3.79E-04	3.49E-04	3.82E-04	3.82E-04	3.82E-04	2.98E-04	5.04E-05	7.70E-07	3.10E-07	0.00E+00
Nebraska	Dodge County	31053	U	5.82E-05	5.82E-05	2.97E-04	3.50E-04	3.04E-04	4.11E-04	4.18E-04	4.18E-04	3.45E-05	2.64E-04	4.31E-06	1.62E-06	0.00E+00
Nebraska	Douglas County	31055	U	6.90E-04	7.55E-04	1.07E-03	2.71E-03	3.29E-03	3.71E-03	5.98E-03	9.22E-03	3.87E-04	2.89E-03	1.17E-05	1.71E-06	0.00E+00
Nebraska	Dundy County	31057	R	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	0.00E+00	3.56E-08	4.99E-08	9.51E-08	0.00E+00

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State	County	FIPS	Urban or Rural	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
Nebraska	Fillmore County	31059	R	4.60E-06	4.60E-06	4.60E-06	6.95E-06	6.95E-06	9.30E-06	9.30E-06	9.30E-06	2.21E-11	6.08E-06	4.69E-07	3.97E-07	0.00E+00
Nebraska	Franklin County	31061	R	4.46E-07	4.46E-07	4.46E-07	2.72E-06	2.72E-06	4.99E-06	4.99E-06	4.99E-06	0.00E+00	2.34E-06	1.59E-07	2.22E-07	0.00E+00
Nebraska	Frontier County	31063	R	2.29E-05	2.29E-05	2.29E-05	2.29E-05	2.29E-05	2.29E-05	2.29E-05	2.29E-05	0.00E+00	2.27E-05	1.05E-07	9.81E-08	0.00E+00
Nebraska	Furnas County	31065	R	1.46E-06	1.46E-06	1.46E-06	1.53E-06	1.53E-06	1.60E-06	1.60E-06	1.60E-06	0.00E+00	1.07E-06	2.26E-07	2.26E-07	0.00E+00
Nebraska	Gage County	31067	U	5.45E-04	5.45E-04	6.00E-04	2.56E-03	9.11E-03	1.05E-02	4.13E-02	4.13E-02	1.27E-03	7.84E-03	1.51E-06	8.38E-07	0.00E+00
Nebraska	Garden County	31069	R	1.72E-07	1.72E-07	1.72E-07	1.72E-07	1.72E-07	1.72E-07	1.72E-07	1.72E-07	0.00E+00	1.78E-08	6.99E-08	8.45E-08	0.00E+00
Nebraska	Garfield County	31071	R	4.74E-07	4.74E-07	4.74E-07	4.74E-07	4.74E-07	4.74E-07	4.74E-07	4.74E-07	2.60E-07	7.66E-08	6.25E-08	7.46E-08	0.00E+00
Nebraska	Gosper County	31073	R	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	3.15E-07	5.80E-05	1.80E-07	1.60E-07	0.00E+00
Nebraska	Grant County	31075	R	1.59E-07	1.59E-07	1.59E-07	1.59E-07	1.59E-07	1.59E-07	1.59E-07	1.59E-07	0.00E+00	2.39E-08	1.01E-08	1.25E-07	0.00E+00
Nebraska	Greeley County	31077	R	3.60E-07	3.60E-07	3.60E-07	3.60E-07	3.60E-07	3.60E-07	3.60E-07	3.60E-07	0.00E+00	8.50E-08	1.58E-07	1.17E-07	0.00E+00
Nebraska	Hall County	31079	U	2.15E-05	3.27E-05	2.42E-04	3.55E-04	8.06E-04	4.59E-04	2.37E-03	5.22E-03	2.25E-05	7.80E-04	1.96E-06	7.93E-07	0.00E+00
Nebraska	Hamilton County	31081	R	1.77E-05	1.77E-05	1.77E-05	2.60E-05	2.65E-05	3.58E-05	3.58E-05	3.58E-05	7.26E-06	1.78E-05	9.08E-07	5.36E-07	0.00E+00
Nebraska	Harlan County	31083	R	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	0.00E+00	8.01E-07	1.92E-07	1.93E-07	0.00E+00
Nebraska	Hayes County	31085	R	2.21E-07	2.21E-07	2.21E-07	2.21E-07	2.21E-07	2.21E-07	2.21E-07	2.21E-07	0.00E+00	5.94E-08	5.55E-08	1.06E-07	0.00E+00
Nebraska	Hitchcock County	31087	R	3.07E-07	3.07E-07	3.07E-07	3.07E-07	3.07E-07	3.07E-07	3.07E-07	3.07E-07	0.00E+00	8.94E-08	9.58E-08	1.22E-07	0.00E+00
Nebraska	Holt County	31089	R	2.64E-07	2.64E-07	4.85E-07	8.79E-07	1.12E-06	1.76E-06	2.46E-06	2.46E-06	0.00E+00	5.19E-07	3.57E-07	2.44E-07	0.00E+00
Nebraska	Hooker County	31091	R	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	0.00E+00	2.81E-08	9.63E-09	1.05E-07	0.00E+00
Nebraska	Howard County	31093	R	2.46E-05	2.46E-05	2.46E-05	3.06E-05	3.06E-05	3.67E-05	3.67E-05	3.67E-05	9.52E-06	2.02E-05	6.28E-07	3.21E-07	0.00E+00
Nebraska	Jefferson County	31095	R	2.21E-03	2.21E-03	2.21E-03	1.49E-02	1.36E-02	2.37E-02	2.37E-02	2.37E-02	2.05E-10	1.36E-02	1.27E-06	6.45E-07	0.00E+00
Nebraska	Johnson County	31097	R	2.03E-05	2.03E-05	2.03E-05	1.97E-04	1.97E-04	3.74E-04	3.74E-04	3.74E-04	1.81E-04	1.49E-05	5.29E-07	4.53E-07	0.00E+00
Nebraska	Kearney County	31099	R	1.05E-05	1.05E-05	1.05E-05	1.20E-05	1.20E-05	1.34E-05	1.34E-05	1.34E-05	0.00E+00	1.09E-05	6.33E-07	3.85E-07	0.00E+00
Nebraska	Keith County	31101	U	1.31E-04	1.31E-04	1.31E-04	1.43E-04	1.40E-04	1.47E-04	1.47E-04	1.47E-04	1.32E-04	5.49E-06	2.14E-06	1.08E-06	0.00E+00
Nebraska	Keya Paha County	31103	R	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	0.00E+00	4.50E-08	2.88E-08	6.65E-08	0.00E+00
Nebraska	Kimball County	31105	U	4.04E-07	4.04E-07	4.04E-07	4.04E-07	4.04E-07	4.04E-07	4.04E-07	4.04E-07	0.00E+00	6.16E-08	2.44E-07	9.89E-08	0.00E+00
Nebraska	Knox County	31107	R	4.09E-07	4.09E-07	5.90E-06	2.12E-05	2.02E-05	3.46E-05	3.81E-05	3.81E-05	1.28E-05	7.01E-06	2.34E-07	2.15E-07	0.00E+00
Nebraska	Lancaster County	31109	U	4.41E-04	4.85E-04	5.92E-04	9.50E-04	1.06E-03	1.35E-03	1.83E-03	1.92E-03	8.78E-04	1.68E-04	9.28E-06	1.63E-06	0.00E+00
Nebraska	Lincoln County	31111	U	4.18E-05	4.18E-05	6.96E-05	8.38E-05	1.07E-04	1.11E-04	2.83E-04	2.83E-04	9.28E-05	9.36E-06	3.65E-06	9.37E-07	0.00E+00
Nebraska	Logan County	31113	R	1.13E-07	1.13E-07	1.13E-07	1.13E-07	1.13E-07	1.13E-07	1.13E-07	1.13E-07	0.00E+00	3.79E-08	2.50E-08	5.02E-08	0.00E+00
Nebraska	Loup County	31115	R	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	5.58E-08	4.32E-08	4.32E-08	7.12E-08	0.00E+00
Nebraska	McPherson County	31117	R	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	0.00E+00	3.39E-08	4.30E-08	5.26E-08	0.00E+00
Nebraska	Madison County	31119	U	9.82E-05	9.82E-05	3.96E-04	7.84E-04	8.89E-04	1.39E-03	1.89E-03	1.89E-03	5.01E-04	3.83E-04	3.95E-06	8.06E-07	0.00E+00
Nebraska	Merrick County	31121	R	1.05E-06	1.05E-06	1.05E-06	1.66E-05	1.20E-05	1.84E-05	1.84E-05	1.84E-05	2.44E-06	8.33E-06	7.37E-07	4.96E-07	0.00E+00
Nebraska	Morrill County	31123	R	1.11E-04	1.11E-04	1.11E-04	1.11E-04	1.11E-04	1.11E-04	1.11E-04	1.11E-04	9.17E-07	1.10E-04	1.62E-07	2.30E-07	0.00E+00
Nebraska	Nance County	31125	R	6.86E-07	6.86E-07	6.86E-07	6.86E-07	6.86E-07	6.86E-07	6.86E-07	6.86E-07	0.00E+00	2.38E-07	2.17E-07	2.31E-07	0.00E+00
Nebraska	Nemaha County	31127	R	1.02E-05	1.02E-05	1.02E-05	1.07E-05	1.07E-05	1.12E-05	1.12E-05	1.12E-05	8.33E-06	1.15E-06	8.02E-07	3.92E-07	0.00E+00
Nebraska	Nuckolls County	31129	R	1.19E-06	1.19E-06	1.19E-06	1.30E-06	1.30E-06	1.40E-06	1.40E-06	1.40E-06	2.01E-07	5.00E-07	3.18E-07	2.79E-07	0.00E+00
Nebraska	Otoe County	31131	R	2.94E-05	2.94E-05	4.12E-05	5.85E-05	7.16E-05	5.90E-05	1.70E-04	1.70E-04	6.35E-05	5.02E-06	2.23E-06	8.58E-07	0.00E+00
Nebraska	Pawnee County	31133	R	2.21E-05	2.21E-05	2.21E-05	2.21E-05	2.21E-05	2.21E-05	2.21E-05	2.21E-05	0.00E+00	2.15E-05	2.75E-07	3.24E-07	0.00E+00
Nebraska	Perkins County	31135	R	3.59E-05	3.59E-05	3.59E-05	3.59E-05	3.59E-05	3.59E-05	3.59E-05	3.59E-05	3.54E-05	1.07E-07	1.09E-07	2.03E-07	0.00E+00
Nebraska	Phelps County	31137	U	3.49E-06	3.49E-06	3.49E-06	1.03E-05	8.04E-06	1.04E-05	1.04E-05	1.04E-05	0.00E+00	5.92E-06	1.41E-06	7.10E-07	0.00E+00
Nebraska	Pierce County	31139	R	2.35E-04	2.35E-04	2.35E-04	4.35E-04	4.35E-04	6.35E-04	6.35E-04	6.35E-04	1.22E-05	4.22E-04	5.40E-07	2.89E-07	0.00E+00
Nebraska	Platte County	31141	U	9.24E-05	9.24E-05	9.40E-05	2.96E-04	3.37E-04	6.38E-04	6.38E-04	6.38E-04	1.76E-04	1.56E-04	3.15E-06	9.97E-07	0.00E+00
Nebraska	Polk County	31143	R	9.92E-06	9.92E-06	9.92E-06	1.12E-05	1.12E-05	1.25E-05	1.25E-05	1.25E-05	4.31E-06	5.71E-06	6.82E-07	4.92E-07	0.00E+00
Nebraska	Red Willow County	31145	U	7.12E-07	7.12E-07	7.12E-07	7.21E-06	5.05E-06	7.22E-06	7.22E-06	7.22E-06	0.00E+00	2.89E-06	1.60E-06	5.62E-07	0.00E+00
Nebraska	Richardson County	31147	R	8.79E-07	8.79E-07	4.99E-06	1.32E-05	1.23E-05	1.97E-05	2.21E-05	2.21E-05	1.08E-05	6.20E-07	4.98E-07	3.85E-07	0.00E+00
Nebraska	Rock County	31149	R	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	0.00E+00	8.63E-08	7.10E-08	9.29E-08	0.00E+00
Nebraska	Saline County	31151	R	3.17E-04	3.17E-04	4.82E-04	6.54E-04	5.77E-04	6.72E-04	6.83E-04	6.83E-04	3.58E-04	2.18E-04	6.02E-07	4.37E-07	0.00E+00
Nebraska	Sarpy County	31153	U	4.40E-04	6.40E-04	1.18E-03	1.61E-03	1.64E-03	2.15E-03	2.45E-03	2.89E-03	3.88E-04	1.24E-03	6.69E-06	1.25E-06	0.00E+00
Nebraska	Saunders County	31155	R	2.69E-05	2.69E-05	4.87E-05	1.79E-04	1.40E-04	2.46E-04	2.66E-04	2.66E-04	2.74E-05	1.10E-04	2.38E-06	5.90E-07	0.00E+00
Nebraska	Scotts Bluff County	31157	U	1.17E-05	1.54E-05	2.25E-05	6.94E-05	6.13E-05	8.72E-05	9.73E-05	9.78E-05	1.23E-05	4.49E-05	3.20E-06	8.90E-07	0.00E+00
Nebraska	Seward County	31159	R	5.67E-05	5.67E-05	1.99E-04	4.73E-04	4.30E-04	6.62E-04	7.18E-04	7.18E-04	3.12E-04	1.16E-04	1.68E-06	7.67E-07	0.00E+00
Nebraska	Sheridan County	31161	R	1.92E-07	1.92E-07	1.92E-07	4.30E-07	8.37E-07	1.89E-06	1.89E-06	1.89E-06	0.00E+00	2.93E-07	2.38E-07	3.06E-07	0.00E+00
Nebraska	Sherman County	31163	R	5.77E-07	5.77E-07	5.77E-07	5.77E-07	5.77E-07	5.77E-07	5.77E-07	5.77E-07	0.00E+00	1.73E-07	1.62E-07	2.43E-07	0.00E+00
Nebraska	Sioux County	31165	R	1.21E-07	1.21E-07	1.21E-07	1.21E-07	1.21E-07	1.21E-07	1.21E-07	1.21E-07	0.00E+00	2.36E-08	2.00E-08	7.71E-08	0.00E+00

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State	County	FIPS	Urban or Rural	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
Nebraska	Stanton County	31167	R	4.52E-04	4.52E-04	4.52E-04	9.89E-04	9.89E-04	1.53E-03	1.53E-03	1.53E-03	5.16E-05	9.36E-04	7.44E-07	3.03E-07	0.00E+00
Nebraska	Thayer County	31169	R	4.76E-04	4.76E-04	4.76E-04	6.99E-04	6.99E-04	9.23E-04	9.23E-04	9.23E-04	1.93E-10	6.98E-04	3.72E-07	4.00E-07	0.00E+00
Nebraska	Thomas County	31171	R	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	0.00E+00	4.40E-08	1.86E-08	2.02E-07	0.00E+00
Nebraska	Thurston County	31173	R	1.10E-04	1.10E-04	1.10E-04	1.10E-04	1.10E-04	1.11E-04	1.11E-04	1.11E-04	8.78E-05	2.12E-05	9.32E-07	4.60E-07	0.00E+00
Nebraska	Valley County	31175	R	1.25E-06	1.25E-06	1.25E-06	1.26E-06	1.26E-06	1.27E-06	1.27E-06	1.27E-06	4.17E-08	5.33E-07	4.93E-07	1.95E-07	0.00E+00
Nebraska	Washington County	31177	U	5.64E-04	5.64E-04	1.51E-03	1.64E-03	1.54E-03	1.95E-03	2.06E-03	2.06E-03	1.28E-04	1.41E-03	3.86E-06	8.00E-07	0.00E+00
Nebraska	Wayne County	31179	U	1.90E-04	1.90E-04	1.90E-04	2.42E-04	2.42E-04	2.95E-04	2.95E-04	2.95E-04	5.51E-06	2.36E-04	7.64E-07	4.58E-07	0.00E+00
Nebraska	Webster County	31181	R	4.39E-07	4.39E-07	4.39E-07	8.39E-07	8.39E-07	1.24E-06	1.24E-06	1.24E-06	2.19E-07	2.92E-07	1.47E-07	1.81E-07	0.00E+00
Nebraska	Wheeler County	31183	R	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	5.91E-08	6.86E-08	7.74E-08	1.04E-07	0.00E+00
Nebraska	York County	31185	U	3.11E-06	3.11E-06	5.84E-06	1.14E-05	1.01E-05	1.43E-05	1.43E-05	1.43E-05	0.00E+00	7.45E-06	1.83E-06	7.83E-07	0.00E+00
Nevada	Statewide	N/A	N/A	1.03E-06	1.55E-05	8.16E-05	2.28E-04	6.31E-04	4.41E-04	7.61E-04	1.08E-03	5.46E-06	6.10E-04	1.16E-05	3.57E-06	0.00E+00
Nevada	All Urban Counties	N/A	U	6.23E-06	5.28E-05	9.71E-05	2.35E-04	6.70E-04	4.64E-04	7.64E-04	1.09E-03	5.90E-06	6.49E-04	1.23E-05	3.55E-06	0.00E+00
Nevada	All Rural Counties	N/A	R	6.80E-08	8.58E-08	9.62E-07	6.12E-06	1.50E-04	1.81E-04	6.50E-04	9.32E-04	5.54E-08	1.44E-04	2.43E-06	3.81E-06	0.00E+00
Nevada	Churchill County	32001	R	2.37E-07	2.37E-07	6.39E-07	1.51E-06	1.96E-06	2.06E-06	6.12E-06	6.12E-06	0.00E+00	9.80E-07	8.32E-07	1.46E-07	0.00E+00
Nevada	Clark County	32003	U	5.03E-05	6.03E-05	9.75E-05	2.16E-04	7.48E-04	3.84E-04	7.48E-04	1.19E-03	8.82E-07	7.30E-04	1.38E-05	3.23E-06	0.00E+00
Nevada	Douglas County	32005	R	5.26E-05	1.17E-04	1.96E-04	2.68E-04	4.12E-04	6.50E-04	9.61E-04	1.19E-03	0.00E+00	3.93E-04	5.98E-06	1.32E-05	0.00E+00
Nevada	Elko County	32007	U	3.38E-08	1.68E-07	3.39E-06	4.31E-05	1.12E-04	6.95E-05	1.14E-04	9.27E-04	0.00E+00	1.11E-04	1.32E-06	2.36E-07	0.00E+00
Nevada	Esmeralda County	32009	R	7.74E-05	7.74E-05	7.74E-05	7.74E-05	7.74E-05	7.74E-05	7.74E-05	7.74E-05	0.00E+00	7.73E-05	1.88E-08	4.19E-09	0.00E+00
Nevada	Eureka County	32011	R	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	0.00E+00	1.12E-08	7.05E-08	1.86E-08	0.00E+00
Nevada	Humboldt County	32013	U	1.99E-07	1.99E-07	1.99E-07	4.60E-05	8.76E-04	2.58E-03	2.58E-03	2.58E-03	7.84E-04	9.10E-05	3.86E-07	6.07E-08	0.00E+00
Nevada	Lander County	32015	R	5.06E-08	5.06E-08	5.06E-08	4.66E-04	4.66E-04	9.32E-04	9.32E-04	9.32E-04	1.02E-06	4.65E-04	1.62E-07	3.20E-08	0.00E+00
Nevada	Lincoln County	32017	R	6.80E-08	6.80E-08	6.80E-08	7.27E-08	7.27E-08	7.73E-08	7.73E-08	7.73E-08	0.00E+00	2.01E-08	3.98E-08	1.28E-08	0.00E+00
Nevada	Lyon County	32019	R	9.62E-07	9.62E-07	1.03E-06	2.03E-06	2.40E-05	1.09E-05	1.42E-04	1.42E-04	0.00E+00	2.09E-05	1.20E-06	1.01E-06	0.00E+00
Nevada	Mineral County	32021	R	8.58E-08	8.58E-08	1.08E-07	2.35E-07	1.20E-06	2.29E-06	4.24E-06	4.24E-06	0.00E+00	7.57E-07	4.06E-07	3.69E-08	0.00E+00
Nevada	Nye County	32023	U	8.86E-09	2.76E-08	6.18E-08	1.19E-06	1.12E-06	1.60E-06	2.70E-06	2.83E-06	0.00E+00	3.29E-07	7.58E-07	3.52E-08	0.00E+00
Nevada	Pershing County	32027	R	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	0.00E+00	1.49E-04	2.57E-07	4.02E-08	0.00E+00
Nevada	Storey County	32029	R	1.04E-05	1.04E-05	1.04E-05	4.49E-05	4.49E-05	7.94E-05	7.94E-05	7.94E-05	0.00E+00	4.09E-05	3.53E-06	4.07E-07	0.00E+00
Nevada	Washoe County	32031	U	2.21E-04	2.38E-04	3.61E-04	4.96E-04	5.45E-04	6.54E-04	9.62E-04	1.06E-03	0.00E+00	5.30E-04	1.04E-05	4.44E-06	0.00E+00
Nevada	White Pine County	32033	U	1.47E-07	1.47E-07	1.47E-07	1.62E-07	4.07E-07	9.12E-07	9.12E-07	9.12E-07	0.00E+00	2.46E-07	1.43E-07	1.80E-08	0.00E+00
Nevada	Carson City	32510	U	2.42E-04	2.55E-04	2.88E-04	3.02E-04	2.99E-04	3.15E-04	3.31E-04	3.35E-04	0.00E+00	2.74E-04	7.42E-06	1.79E-05	0.00E+00
New Hampshire	Statewide	N/A	N/A	1.56E-04	2.04E-04	3.30E-04	5.46E-04	6.54E-04	7.58E-04	1.17E-03	1.71E-03	1.27				

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State	County	FIPS	Urban or Rural	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
New Jersey	Hunterdon County	34019	U	4.81E-04	5.00E-04	5.34E-04	5.93E-04	6.26E-04	6.62E-04	8.24E-04	8.40E-04	1.51E-04	4.63E-04	1.04E-05	1.21E-06	0.00E+00
New Jersey	Mercer County	34021	U	1.19E-03	1.29E-03	1.46E-03	1.66E-03	2.13E-03	2.17E-03	3.14E-03	4.42E-03	6.36E-04	1.47E-03	2.33E-05	6.16E-06	0.00E+00
New Jersey	Middlesex County	34023	U	9.51E-04	9.78E-04	1.07E-03	1.23E-03	1.54E-03	1.57E-03	2.21E-03	3.28E-03	1.05E-04	1.41E-03	2.33E-05	2.80E-06	0.00E+00
New Jersey	Monmouth County	34025	U	4.08E-04	4.59E-04	5.59E-04	7.30E-04	8.93E-04	1.05E-03	1.61E-03	1.87E-03	4.44E-05	8.31E-04	1.55E-05	1.87E-06	0.00E+00
New Jersey	Morris County	34027	U	6.41E-04	7.25E-04	7.90E-04	8.59E-04	9.83E-04	1.00E-03	1.36E-03	1.77E-03	3.34E-05	9.33E-04	1.46E-05	1.97E-06	0.00E+00
New Jersey	Ocean County	34029	U	3.36E-04	3.67E-04	4.55E-04	5.88E-04	7.54E-04	8.17E-04	1.29E-03	1.55E-03	3.07E-05	7.15E-04	7.80E-06	1.07E-06	0.00E+00
New Jersey	Passaic County	34031	U	9.13E-04	9.41E-04	9.98E-04	1.17E-03	1.39E-03	1.34E-03	1.79E-03	2.44E-03	4.34E-05	1.30E-03	3.51E-05	3.90E-06	0.00E+00
New Jersey	Salem County	34033	U	5.85E-04	8.20E-04	9.20E-04	1.38E-03	2.37E-03	3.26E-03	5.86E-03	6.23E-03	2.56E-04	2.09E-03	1.18E-05	8.75E-06	0.00E+00
New Jersey	Somerset County	34035	U	6.49E-04	7.78E-04	9.03E-04	1.08E-03	1.38E-03	1.51E-03	1.82E-03	3.19E-03	5.73E-05	1.31E-03	1.36E-05	2.05E-06	0.00E+00
New Jersey	Sussex County	34037	U	1.91E-04	2.60E-04	3.24E-04	4.04E-04	4.29E-04	5.24E-04	6.45E-04	7.21E-04	1.92E-05	4.03E-04	6.05E-06	5.90E-07	0.00E+00
New Jersey	Union County	34039	U	1.14E-03	1.26E-03	1.49E-03	1.70E-03	2.40E-03	1.99E-03	4.15E-03	6.06E-03	9.17E-05	2.27E-03	3.37E-05	4.16E-06	0.00E+00
New Jersey	Warren County	34041	U	4.87E-04	5.07E-04	6.21E-04	7.44E-04	8.61E-04	9.96E-04	1.53E-03	1.54E-03	3.33E-04	5.13E-04	1.27E-05	9.57E-07	0.00E+00
New Mexico	Statewide	N/A	N/A	3.55E-07	1.09E-06	6.75E-06	4.53E-05	1.15E-03	2.24E-04	3.89E-04	5.39E-04	1.01E-03	1.38E-04	6.11E-06	6.99E-07	0.00E+00
New Mexico	All Urban Counties	N/A	U	4.88E-07	2.04E-06	1.16E-05	1.02E-04	1.46E-03	2.74E-04	4.23E-04	6.27E-04	1.28E-03	1.75E-04	1.40E-06	8.51E-07	0.00E+00
New Mexico	All Rural Counties	N/A	R	8.97E-08	3.17E-07	1.61E-06	7.50E-06	7.18E-05	4.34E-05	1.75E-04	1.98E-04	6.18E-05	8.17E-06	1.57E-06	1.66E-07	0.00E+00
New Mexico	Bernalillo County	35001	U	9.22E-05	1.23E-04	1.61E-04	2.66E-04	2.73E-04	3.41E-04	4.53E-04	5.17E-04	0.00E+00	2.59E-04	1.25E-05	1.27E-06	0.00E+00
New Mexico	Catron County	35003	R	2.25E-08	2.25E-08	2.25E-08	3.88E-08	3.88E-08	5.51E-08	5.51E-08	5.51E-08	0.00E+00	1.97E-08	1.80E-08	1.03E-09	0.00E+00
New Mexico	Chaves County	35005	U	6.87E-05	1.06E-04	1.40E-04	3.61E-04	4.46E-04	6.29E-04	9.18E-04	1.13E-03	1.71E-06	4.40E-04	3.83E-06	4.40E-07	0.00E+00
New Mexico	Cibola County	35006	R	6.10E-08	2.00E-07	4.99E-07	4.86E-06	6.63E-06	1.06E-05	1.70E-05	2.11E-05	4.17E-06	1.21E-06	1.11E-06	1.45E-07	0.00E+00
New Mexico	Colfax County	35007	U	4.63E-07	4.63E-07	4.63E-07	4.80E-07	4.77E-07	4.88E-07	4.88E-07	4.88E-07	1.15E-07	1.10E-07	2.27E-07	2.41E-08	0.00E+00
New Mexico	Curry County	35009	U	2.13E-06	2.13E-06	5.63E-06	8.70E-06	8.37E-06	1.20E-05	1.33E-05	1.33E-05	0.00E+00	4.74E-06	2.75E-06	8.75E-07	0.00E+00
New Mexico	DeBaca County	35011	R	8.97E-08	8.97E-08	8.97E-08	8.97E-08	8.97E-08	8.97E-08	8.97E-08	8.97E-08	0.00E+00	1.64E-08	2.95E-08	4.38E-08	0.00E+00
New Mexico	Dona Ana County	35013	U	1.65E-06	2.69E-06	3.85E-05	5.69E-05	1.43E-02	1.09E-03	4.92E-02	1.42E-02	8.12E-05	7.75E-06	1.31E-06	1.31E-06	0.00E+00
New Mexico	Eddy County	35015	U	2.88E-07	3.77E-07	7.97E-06	1.48E-05	1.99E-05	3.18E-05	3.96E-05	5.79E-05	9.50E-06	6.42E-06	3.39E-06	6.03E-07	0.00E+00
New Mexico	Grant County	35017	R	2.61E-07	2.61E-07	2.63E-06	5.23E-06	5.13E-06	7.50E-06	1.00E-05	1.00E-05	0.00E+00	3.85E-06	1.17E-06	1.05E-07	0.00E+00
New Mexico	Guadalupe County	35019	R	3.53E-07	3.53E-07	3.53E-07	3.53E-07	3.53E-07	3.53E-07	3.53E-07	3.53E-07	0.00E+00	3.45E-08	2.58E-07	6.05E-08	0.00E+00
New Mexico	Harding County	35021	R	1.37E-08	1.37E-08	1.37E-08	1.37E-08	1.37E-08	1.37E-08	1.37E-08	1.37E-08	0.00E+00	7.92E-09	5.19E-09	5.89E-10	0.00E+00
New Mexico	Hidalgo County	35023	R	4.65E-06	4.65E-06	4.65E-06	2.67E-05	2.67E-05	4.87E-05	4.87E-05	4.87E-05	0.00E+00	2.57E-05	6.44E-07	3.62E-07	0.00E+00
New Mexico	Lea County	35025	U	4.50E-07	6.94E-07	1.56E-06	8.09E-06	9.68E-06	1.21E-05	2.07E-05	2.96E-05	0.00E+00	5.62E-06	3.69E-06	3.65E-07	0.00E+00
New Mexico	Lincoln County	35027	R	1.84E-07	1.84E-07	4.22E-07	6.88E-07	2.17E-06	4.56E-06	5.02E-06	5.02E-06	0.00E+00	1.27E-06	7.38E-07	1.64E-07	0.00E+00
New Mexico	Los Alamos County	35028	R	2.47E-05	2.47E-05	2.58E-05	3.53E-05	1.08E-04	1.91E-04	3.37E-04	3.37E-04	1.03E-04	4.29E-06	9.94E-07	1.44E-07	0.00E+00
New Mexico	Luna County	35029	U	5.87E-05	5.87E-05	2.26E-04	3.37E-04	2.19E-03	4.78E-03	7.43E-03	7.43E-03	0.00E+00	2.19E-03	2.89E-06	2.41E-07	0.00E+00
New Mexico	McKinley County	35031	R	1.70E-07	1.18E-06	4.69E-06	1.76E-05	1.71E-05	2.63E-05	3.67E-05	4.34E-05	1.13E-05	3.73E-06	1.85E-06	2.22E-07	0.00E+00
New Mexico	Mora County	35033	R	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	0.00E+00	9.47E-07	3.69E-07	2.77E-08	0.00E+00
New Mexico	Otero County	35035	U	3.28E-07	3.64E-07	1.09E-06	4.65E-06	7.08E-06	9.01E-06	2.08E-05	2.30E-05	0.00E+00	4.01E-06	2.89E-06	1.81E-07	0.00E+00
New Mexico	Quay County	35037	U	2.27E-07	2.27E-07	2.34E-07	3.42E-06	3.42E-06	6.60E-06	6.61E-06	6.61E-06	0.00E+00	1.34E-06	1.94E-06	1.32E-07	0.00E+00
New Mexico	Rio Arriba County	35039	R	3.17E-07	3.62E-07	3.84E-07	3.74E-06	9.69E-06	1.09E-05	2.97E-05	5.01E-05	7.42E-07	7.55E-06	1.30E-06	1.01E-07	0.00E+00
New Mexico	Roosevelt County	35041	U	5.39E-07	5.39E-07	3.28E-06	6.27E-06	5.25E-06	7.21E-06	7.90E-06	7.90E-06	0.00E+00	2.57E-06	2.24E-06	4.39E-07	0.00E+00
New Mexico	Sandoval County	35043	U	2.07E-07	3.92E-07	8.52E-06	1.14E-04	9.15E-05	1.54E-04	1.86E-04	1.86E-04	2.95E-06	8.43E-05	3.95E-06	3.97E-07	0.00E+00
New Mexico	San Juan County	35045	R	3.51E-06	5.35E-06	7.09E-05	1.69E-04	2.50E-04	1.85E-04	2.92E-04	5.47E-04	2.42E-04	5.03E-06	2.85E-06	2.60E-07	0.00E+00
New Mexico	San Miguel County	35047	U	7.08E-07	7.08E-07	1.33E-06	5.73E-06	7.84E-06	1.63E-05	2.28E-05	2.28E-05	0.00E+00	5.79E-06	1.87E-06	1.84E-07	0.00E+00
New Mexico	Santa Fe County	35049	U	5.33E-06	6.20E-06	1.07E-05	1.85E-05	2.14E-05	2.98E-05	3.51E-05	4.33E-05	2.51E-06	1.34E-05	4.85E-06	6.58E-07	0.00E+00
New Mexico	Sierra County	35051	U	2.14E-06	2.14E-06	2.14E-06	2.29E-06	2.28E-06	2.42E-06	2.42E-06	2.42E-06	0.00E+00	1.59E-06	6.03E-07	8.74E-08	0.00E+00
New Mexico	Socorro County	35053	U	2.71E-08	2.71E-08	1.70E-07	4.49E-07	1.81E-06	3.70E-06	6.23E-06	6.23E-06	0.00E+00	7.06E-07	9.83E-07	1.26E-07	0.00E+00
New Mexico	Taos County	35055	R	1.61E-06	1.61E-06	1.67E-06	1.80E-06	2.93E-06	3.83E-06	6.88E-06	6.88E-06	0.00E+00	1.83E-06	1.03E-06	7.01E-08	0.00E+00
New Mexico	Torrance County	35057	R	3.08E-07	3.08E-07	4.38E-07	4.23E-05	7.24E-05	9.56E-05	2.53E-04	2.53E-04	0.00E+00	7.10E-05	1.27E-06	8.37E-08	0.00E+00
New Mexico	Union County	35059	R	7.35E-08	7.35E-08	7.35E-08	7.35E-08	7.35E-08	7.35E-08	7.35E-08	7.35E-08	0.00E+00	1.96E-08	3.65E-08	1.74E-08	0.00E+00
New Mexico	Valencia County	35061	U	1.55E-06	1.71E-06	7.14E-06	3.30E-05	4.00E-05	4.75E-05	1.13E-04	1.15E-04	0.00E+00	3.66E-05	2.83E-06	5.02E-07	0.00E+00
New York	Statewide	N/A	N/A	5.38E-05	1.02E-04	2.77E-04	7.69E-04	1.00E-03	1.15E-03	1.64E-03	2.22E-03	1.47E-04	8.17E-04	3.49E-05	4.03E-06	0.00E+00
New York	All Urban Counties	N/A	U	8.99E-05	1.59E-04	3.86E-04	8.28E-04	1.00E-03	1.18E-03	1.65E-03	2.19E-03	1.61E-04	7.99E-04	3.88E-05	4.47E-06	0.00E+00
New York	All Rural Counties	N/A	R	1.22E-05	2.13E-05	5.05E-05	1.32E-04	9.94E-04	3.10E-04	1.39E-03	3.67E-03	3.48E-05	9.55E-04	3.92E-06	5.55E-07	0.00E+00
New York	Albany County	36001	U	3.85E-05	5.82E-05	9.09E-05	1.17E-04	1.27E-04	1.68E-04	2.08E-04	2.58E-04	1.18E-05	8.65E-05	1.88E-05	1.03E-05	0.00E+00
New York	Allegany County	36003	R	1.07E-05	1.16E-05	1.51E-05	2.25E-05	6.60E-05	7.39E-05	1.86E-04	2.45E-04	1.81E-06	6.27E-05	1.38E-06	1.39E-07	0.00E+00
New York	Bronx County	36005	U	7.23E-04	7.73E-04	8.57E-04	1.01E-03	1.01E-03	1.17E-03	1.26E-03	1.28E-03	1.40E-04	8.01E-04	6.88E-05	4.90E-06	0.00E+00

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

State	County	FIPS	Urban or Rural	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
New York	Broome County	36007	R	1.06E-04	1.24E-04	1.98E-04	2.60E-04	3.10E-04	3.92E-04	5.26E-04	5.56E-04	1.88E-04	1.12E-04	8.97E-06	7.12E-07	0.00E+00
New York	Cattaraugus County	36009	R	9.76E-05	1.32E-04	1.55E-04	1.90E-04	2.80E-04	2.65E-04	4.30E-04	4.73E-04	7.37E-06	2.70E-04	2.71E-06	3.03E-07	0.00E+00
New York	Cayuga County	36011	U	9.43E-05	9.46E-05	2.19E-04	3.92E-04	3.17E-04	4.10E-04	4.25E-04	4.52E-04	1.95E-05	2.93E-04	3.47E-06	6.74E-07	0.00E+00
New York	Chautauqua County	36013	R	9.53E-05	1.03E-04	1.32E-04	2.39E-04	4.01E-04	5.10E-04	8.66E-04	1.60E-03	4.51E-05	3.52E-04	3.02E-06	7.61E-07	0.00E+00
New York	Chemung County	36015	R	7.42E-05	8.88E-05	1.46E-04	2.45E-04	5.63E-04	6.42E-04	1.44E-03	2.43E-03	1.02E-05	5.44E-04	7.81E-06	9.06E-07	0.00E+00
New York	Chenango County	36017	R	4.92E-05	5.20E-05	6.29E-05	6.71E-05	9.27E-05	9.41E-05	1.30E-04	2.54E-04	3.16E-05	5.89E-05	1.86E-06	3.21E-07	0.00E+00
New York	Clinton County	36019	R	9.07E-06	9.84E-06	3.12E-05	7.10E-05	6.49E-05	9.23E-05	1.00E-04	1.02E-04	0.00E+00	6.00E-05	4.43E-06	4.77E-07	0.00E+00
New York	Columbia County	36021	R	5.33E-05	5.73E-05	8.94E-05	1.82E-04	2.55E-04	3.80E-04	6.16E-04	7.69E-04	3.00E-06	2.47E-04	3.96E-06	9.39E-07	0.00E+00
New York	Cortland County	36023	R	9.84E-05	1.16E-04	1.50E-04	1.79E-04	1.80E-04	2.18E-04	2.41E-04	2.53E-04	1.68E-05	1.59E-04	3.86E-06	4.35E-07	0.00E+00
New York	Delaware County	36025	R	8.16E-06	8.91E-06	1.36E-05	2.13E-05	2.36E-05	2.91E-05	4.84E-05	4.93E-05	1.58E-06	2.09E-05	1.04E-06	1.38E-07	0.00E+00
New York	Dutchess County	36027	U	5.14E-04	6.04E-04	8.25E-04	1.31E-03	1.41E-03	1.88E-03	2.33E-03	2.81E-03	2.87E-05	1.37E-03	1.06E-05	1.53E-06	0.00E+00
New York	Erie County	36029	U	2.25E-04	2.81E-04	5.57E-04	1.00E-03	1.14E-03	1.23E-03	1.87E-03	2.27E-03	4.15E-05	1.08E-03	1.56E-05	3.06E-06	0.00E+00
New York	Essex County	36031	R	1.40E-05	1.44E-05	5.04E-05	1.71E-04	2.19E-04	2.91E-04	3.78E-04	1.06E-03	1.74E-04	4.37E-05	1.17E-06	1.55E-07	0.00E+00
New York	Franklin County	36033	R	4.40E-06	1.32E-05	1.70E-05	2.24E-05	2.73E-05	3.08E-05	5.71E-05	6.14E-05	2.56E-06	2.32E-05	7.92E-07	7.98E-07	0.00E+00
New York	Fulton County	36035	R	5.22E-06	6.85E-06	1.27E-05	2.10E-05	2.58E-05	3.88E-05	4.41E-05	5.51E-05	1.21E-07	2.15E-05	3.73E-06	4.75E-07	0.00E+00
New York	Genesee County	36037	U	3.23E-05	4.44E-05	5.91E-05	7.32E-05	8.24E-05	9.70E-05	1.13E-04	2.13E-04	2.45E-05	5.34E-05	3.84E-06	6.59E-07	0.00E+00
New York	Greene County	36039	R	1.10E-04	1.19E-04	1.21E-04	1.67E-04	1.91E-04	2.32E-04	2.85E-04	4.40E-04	1.28E-06	1.85E-04	3.71E-06	8.81E-07	0.00E+00
New York	Hamilton County	36041	R	7.45E-07	7.45E-07	7.87E-07	9.44E-07	1.48E-06	2.17E-06	3.27E-06	3.27E-06	1.96E-08	1.20E-06	1.53E-07	1.06E-07	0.00E+00
New York	Herkimer County	36043	U	7.61E-06	1.29E-05	1.85E-05	4.29E-05	4.40E-05	6.73E-05	7.75E-05	8.83E-05	0.00E+00	3.97E-05	3.22E-06	1.13E-06	0.00E+00
New York	Jefferson County	36045	R	1.56E-05	1.83E-05	2.89E-05	4.10E-05	8.80E-05	6.86E-05	1.29E-04	3.67E-04	1.88E-05	6.74E-05	1.38E-06	4.92E-07	0.00E+00
New York	Kings County	36047	U	7.46E-04	7.87E-04	8.78E-04	1.02E-03	1.05E-03	1.19E-03	1.36E-03	1.45E-03	1.11E-04	8.75E-04	5.99E-05	4.68E-06	0.00E+00
New York	Lewis County	36049	R	3.34E-05	3.34E-05	4.74E-05	5.23E-05	6.11E-05	7.45E-05	9.61E-05	9.61E-05	3.17E-06	5.67E-05	4.27E-07	8.62E-07	0.00E+00
New York	Livingston County	36051	U	9.42E-06	1.49E-05	1.93E-05	3.97E-05	3.75E-05	5.52E-05	6.28E-05	6.44E-05	1.29E-05	2.16E-05	2.71E-06	3.52E-07	0.00E+00
New York	Madison County	36053	U	3.24E-04	6.15E-04	1.02E-03	1.96E-03	3.59E-03	5.92E-03	9.24E-03	1.02E-02	4.92E-06	3.58E-03	3.98E-06	4.17E-06	0.00E+00
New York	Monroe County	36055	U	1.90E-04	2.49E-04	4.70E-04	1.22E-03	2.80E-03	3.19E-03	6.06E-03	1.12E-02	1.61E-03	1.17E-03	1.68E-05	1.84E-06	0.00E+00
New York	Montgomery County	36057	U	9.82E-06	1.15E-05	1.38E-05	3.44E-05	3.38E-05	5.31E-05	5.71E-05	7.51E-05	5.80E-07	2.83E-05	4.14E-06	7.72E-07	0.00E+00
New York	Nassau County	36059	U	2.03E-04	2.25E-04	2.79E-04	3.40E-04	3.47E-04	4.04E-04	4.66E-04	5.15E-04	5.53E-05	2.68E-04	2.14E-05	2.76E-06	0.00E+00
New York	New York County	36061	U	1.33E-03	1.40E-03	1.50E-03	1.85E-03	1.88E-03	2.18E-03	2.53E-03	2.63E-03	2.99E-04	1.47E-03	9.46E-05	1.29E-05	0.00E+00
New York	Niagara County	36063	U	2.32E-04	3.17E-04	6.30E-04	1.30E-03	4.62E-03	6.19E-03	1.08E-02	1.91E-02	1.31E-04	4.48E-03	7.77E-06	9.65E-07	0.00E+00
New York	Oneida County	36065	U	9.47E-05	1.17E-04	1.50E-04	1.74E-04	1.89E-04	2.04E-04	2.40E-04	3.83E-04	2.81E-07	1.67E-04	9.88E-06	1.17E-05	0.00E+00
New York	Onondaga County	36067	U	4.70E-04	6.01E-04	7.59E-04	1.06E-03	1.49E-03	1.70E-03	2.79E-03	3.53E-03	4.80E-05	1.42E-03	1.28E-05	4.46	

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

State	County	FIPS	Urban or Rural	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
New York	Washington County	36115	R	8.42E-05	8.57E-05	1.03E-04	1.28E-04	1.45E-04	1.79E-04	2.45E-04	2.67E-04	1.67E-05	1.25E-04	3.38E-06	3.06E-07	0.00E+00
New York	Wayne County	36117	U	5.75E-05	5.93E-05	1.10E-04	2.33E-04	2.31E-04	3.33E-04	4.03E-04	4.72E-04	1.11E-04	1.14E-04	5.14E-06	7.49E-07	0.00E+00
New York	Westchester County	36119	U	2.49E-04	3.23E-04	3.98E-04	5.00E-04	5.30E-04	6.61E-04	7.82E-04	8.38E-04	6.99E-05	4.32E-04	2.51E-05	3.73E-06	0.00E+00
New York	Wyoming County	36121	R	8.80E-06	8.87E-06	9.53E-06	1.33E-05	3.39E-05	6.12E-05	7.78E-05	9.64E-05	3.46E-07	3.19E-05	1.36E-06	2.56E-07	0.00E+00
New York	Yates County	36123	R	3.77E-05	3.77E-05	3.92E-05	4.10E-05	4.07E-05	4.25E-05	4.34E-05	4.34E-05	1.22E-05	2.62E-05	1.87E-06	4.09E-07	0.00E+00
North Carolina	Statewide	N/A	N/A	1.35E-04	2.25E-04	3.96E-04	9.71E-04	2.50E-03	2.25E-03	4.31E-03	6.81E-03	1.32E-03	1.17E-03	1.07E-05	1.30E-06	0.00E+00
North Carolina	All Urban Counties	N/A	U	2.33E-04	2.99E-04	6.30E-04	1.51E-03	3.38E-03	3.13E-03	5.48E-03	9.65E-03	1.88E-03	1.48E-03	1.43E-05	1.50E-06	0.00E+00
North Carolina	All Rural Counties	N/A	R	4.57E-05	1.12E-04	2.67E-04	5.30E-04	1.12E-03	9.55E-04	1.83E-03	2.58E-03	4.36E-04	6.78E-04	5.07E-06	9.84E-07	0.00E+00
North Carolina	Alamance County	37001	U	8.31E-04	8.66E-04	9.65E-04	1.06E-03	1.19E-03	1.17E-03	1.73E-03	1.96E-03	2.25E-04	9.51E-04	1.13E-05	7.94E-07	0.00E+00
North Carolina	Alexander County	37003	U	1.15E-03	1.15E-03	1.32E-03	1.60E-03	1.64E-03	2.00E-03	2.03E-03	2.03E-03	3.17E-04	1.32E-03	3.81E-06	2.58E-07	0.00E+00
North Carolina	Alleghany County	37005	R	4.02E-04	4.02E-04	4.02E-04	5.40E-04	5.49E-04	7.05E-04	7.05E-04	7.05E-04	1.57E-04	3.91E-04	1.25E-06	1.83E-07	0.00E+00
North Carolina	Anson County	37007	R	1.11E-04	1.11E-04	1.14E-04	1.64E-04	1.95E-04	2.92E-04	3.24E-04	3.24E-04	7.04E-05	1.22E-04	1.66E-06	2.39E-07	0.00E+00
North Carolina	Ashe County	37009	R	4.09E-04	4.09E-04	8.56E-04	1.29E-03	1.11E-03	1.32E-03	1.63E-03	1.63E-03	8.78E-05	1.02E-03	1.28E-06	1.25E-07	0.00E+00
North Carolina	Avery County	37011	R	9.00E-04	9.00E-04	1.09E-03	1.52E-03	2.13E-03	3.17E-03	4.57E-03	4.67E-03	1.65E-04	1.97E-03	1.93E-06	2.40E-07	0.00E+00
North Carolina	Beaufort County	37013	R	1.33E-05	7.70E-05	2.39E-04	2.68E-04	2.75E-04	3.49E-04	4.65E-04	5.71E-04	1.85E-04	8.69E-05	2.70E-06	5.19E-07	0.00E+00
North Carolina	Bertie County	37015	R	2.98E-04	2.98E-04	3.68E-04	6.03E-04	9.87E-04	1.61E-03	2.44E-03	2.44E-03	6.73E-05	9.19E-04	6.83E-07	1.92E-07	0.00E+00
North Carolina	Bladen County	37017	R	1.15E-03	1.15E-03	1.23E-03	1.38E-03	1.44E-03	1.49E-03	2.03E-03	2.03E-03	1.38E-03	5.91E-05	9.84E-07	1.85E-07	0.00E+00
North Carolina	Brunswick County	37019	R	7.49E-06	1.66E-05	2.07E-05	3.41E-04	5.14E-04	7.40E-04	8.66E-04	2.27E-03	3.61E-04	1.50E-04	2.03E-06	7.29E-07	0.00E+00
North Carolina	Buncombe County	37021	R	2.04E-04	2.13E-04	2.79E-04	3.34E-04	3.27E-04	3.69E-04	4.23E-04	4.55E-04	2.36E-04	7.26E-05	1.68E-05	1.12E-06	0.00E+00
North Carolina	Burke County	37023	U	1.49E-03	1.84E-03	2.70E-03	3.09E-03	3.50E-03	3.67E-03	6.00E-03	9.08E-03	9.61E-04	2.53E-03	6.98E-06	4.62E-07	0.00E+00
North Carolina	Cabarrus County	37025	U	4.82E-04	5.73E-04	6.38E-04	8.39E-04	8.91E-04	1.05E-03	1.36E-03	1.36E-03	5.03E-04	3.71E-04	1.47E-05	1.51E-06	0.00E+00
North Carolina	Caldwell County	37027	U	2.38E-03	2.68E-03	3.12E-03	4.85E-03	5.98E-03	7.29E-03	1.19E-02	1.53E-02	1.50E-03	4.47E-03	5.24E-06	5.54E-07	0.00E+00
North Carolina	Camden County	37029	R	2.60E-04	2.60E-04	2.60E-04	2.60E-04	2.60E-04	2.60E-04	2.60E-04	2.60E-04	2.17E-04	4.22E-05	1.22E-06	3.05E-07	0.00E+00
North Carolina	Carteret County	37031	R	6.49E-05	6.80E-05	1.17E-04	1.69E-04	3.43E-04	4.99E-04	9.44E-04	1.14E-03	7.58E-06	3.30E-04	1.89E-06	3.81E-06	0.00E+00
North Carolina	Caswell County	37033	R	2.41E-04	2.41E-04	2.42E-04	3.02E-04	3.17E-04	3.98E-04	4.20E-04	4.20E-04	2.09E-04	1.06E-04	2.39E-06	1.93E-07	0.00E+00
North Carolina	Catawba County	37035	U	1.68E-03	1.75E-03	2.19E-03	3.15E-03	3.54E-03	4.53E-03	6.26E-03	6.43E-03	3.86E-04	3.14E-03	1.34E-05	1.02E-06	0.00E+00
North Carolina	Chatham County	37037	U	3.52E-04	3.52E-04	5.61E-04	6.42E-04	9.49E-04	1.27E-03	2.29E-03	2.29E-03	1.35E-04	8.10E-04	3.33E-06	3.90E-07	0.00E+00
North Carolina	Cherokee County	37039	R	2.77E-05	2.77E-05	4.02E-05	6.78E-05	1.10E-04	1.71E-04	2.85E-04	2.85E-04	5.55E-05	5.34E-05	9.83E-07	8.41E-08	0.00E+00
North Carolina	Chowan County	37041	R	5.67E-04	5.67E-04	5.67E-04	6.12E-04	6.12E-04	6.58E-04	6.58E-04	6.58E-04	6.76E-05	5.44E-04	7.01E-07	2.33E-07	0.00E+00
North Carolina	Clay County	37043	R	1.73E-04	1.73E-04	1.73E-04	2.05E-04	2.05E-04	2.36E-04	2.36E-04	2.36E-04	2.57E-05	1.78E-04	6.89E-07	8.97E-08	0.00E+00
North Carolina	Cleveland County	37045	R	3.53E-04	3.70E-04	4.47E-04	5.50E-04	6.51E-04	7.14E-04	1.07E-03	1.66E-03	1.20E-04	5.22E-04	8.02E-06	6.88E-07	0.00E+00
North Carolina	Columbus County	37047	R	7.03E-04	7.45E-04	1.11E-03	1.38E-03	1.80E-03	1.77E-03	3.41E-03	4.77E-03	1.30E-03	5.04E-04	1.38E-06	2.06E-07	0.00E+00
North Carolina	Craven County	37049	U	1.99E-04	2.54E-04	3.23E-04	1.06E-03	1.43E-03	1.70E-03	2.67E-03	6.44E-03	3.44E-04	1.08E-03	6.15E-06	5.87E-07	0.00E+00
North Carolina	Cumberland County	37051	U	2.10E-04	2.16E-04	2.28E-04	2.79E-04	3.77E-04	5.92E-04	6.41E-04	6.60E-04	1.42E-04	2.21E-04	1.24E-05	9.88E-07	0.00E+00
North Carolina	Currituck County	37053	U	4.90E-06	4.90E-06	5.24E-06	5.35E-05	9.60E-05	1.64E-04	2.95E-04	2.95E-04	8.15E-05	1.32E-05	8.15E-07	4.97E-07	0.00E+00
North Carolina	Dare County	37055	R	4.55E-07	4.55E-07	9.36E-07	3.94E-06	6.47E-06	7.32E-06	2.38E-05	2.38E-05	0.00E+00	5.37E-06	7.92E-07	3.09E-07	0.00E+00
North Carolina	Davidson County	37057	U	2.33E-03	3.55E-03	4.19E-03	6.87E-03	1.03E-02	1.24E-02	1.77E-02	1.87E-02	6.33E-03	3.99E-03	1.09E-05	9.17E-07	0.00E+00
North Carolina	Davie County	37059	U	9.24E-04	9.24E-04	1.18E-03	1.56E-03	1.83E-03	2.64E-03	3.22E-03	3.22E-03	1.33E-03	4.97E-04	5.85E-06	3.78E-07	0.00E+00
North Carolina	Duplin County	37061	R	5.00E-05	5.00E-05	1.70E-04	2.66E-04	3.52E-04	4.97E-04	8.98E-04	8.98E-04	2.02E-04	1.47E-04	2.09E-06	2.11E-07	0.00E+00
North Carolina	Durham County	37063	U	2.73E-04	3.36E-04	5.84E-04	8.43E-04	1.26E-03	1.48E-03	2.55E-03	3.48E-03	1.14E-03	1.05E-04	1.78E-05	2.41E-06	0.00E+00
North Carolina	Edgecombe County	37065	U	8.54E-04	9.74E-04	1.52E-03	2.31E-03	7.89E-03	1.36E-02	1.77E-02	3.28E-02	1.23E-05	7.88E-03	5.71E-06	7.56E-07	0.00E+00
North Carolina	Forsyth County	37067	U	1.17E-03	1.42E-03	1.69E-03	2.25E-03	2.73E-03	2.92E-03	4.04E-03	4.45E-03	1.22E-03	1.49E-03	1.52E-05	1.26E-06	0.00E+00
North Carolina	Franklin County	37069	U	3.12E-04	3.12E-04	4.58E-04	7.79E-04	1.10E-03	1.22E-03	3.57E-03	3.57E-03	1.27E-05	1.08E-03	3.65E-06	3.63E-07	0.00E+00
North Carolina	Gaston County	37071	U	8.36E-04	9.93E-04	1.08E-03	1.26E-03	1.39E-03	1.50E-03	1.65E-03	1.82E-03	4.35E-04	9.35E-04	1.65E-05	1.28E-06	0.00E+00
North Carolina	Gates County	37073	R	4.53E-04	4.53E-04	4.53E-04	5.83E-04	5.43E-04	5.92E-04	5.92E-04	5.92E-04	3.49E-04	1.93E-04	1.65E-07	1.63E-07	0.00E+00
North Carolina	Graham County	37075	R	1.77E-04	1.77E-04	1.77E-04	3.59E-04	3.23E-04	4.33E-04	4.33E-04	4.33E-04	2.67E-04	5.57E-05	6.80E-07	9.31E-08	0.00E+00
North Carolina	Granville County	37077	R	1.65E-04	1.65E-04	2.48E-04	2.76E-04	2.73E-04	3.23E-04	3.51E-04	3.51E-04	1.56E-04	1.10E-04	6.77E-06	4.93E-07	0.00E+00
North Carolina	Greene County	37079	R	4.31E-04	4.31E-04	4.31E-04	5.13E-04	6.63E-04	1.04E-03	1.04E-03	1.04E-03	5.13E-04	1.46E-04	2.38E-06	3.47E-07	0.00E+00
North Carolina	Guilford County	37081	U	2.69E-03	2.88E-03	3.75E-03	4.40E-03	1.22E-02	7.18E-03	2.08E-02	4.88E-02	1.03E-02	1.85E-03	1.75E-05	2.00E-06	0.00E+00
North Carolina	Halifax County	37083	R	7.05E-04	8.26E-04	8.72E-04	9.45E-04	1.41E-03	2.34E-03	2.39E-03	3.38E-03	7.14E-05	1.33E-03	6.06E-06	3.33E-07	0.00E+00
North Carolina	Harnett County	37085	R	1.88E-04	2.02E-04	2.41E-04	3.01E-04	3.37E-04	4.68E-04	5.56E-04	5.79E-04	5.65E-05	2.71E-04	9.01E-06	5.35E-07	0.00E+00
North Carolina	Haywood County	37087	R	1.52E-04	2.26E-04	2.42E-04	4.97E-04	1.17E-03	1.08E-03	1.60E-03	8.42E-03	1.08E-03	7.93E-05	4.79E-06	3.91E-07	0.00E+00
North Carolina	Henderson County	37089	R	2.29E-04	3.02E-04	5.12E-04	6.88E-04	7.11E-04	7.58E-04	9.39E-04	1.73E-03	4.80E-04	2.22E-04	8.40E-06	8.95E-07	0.00E+00
North Carolina	Hertford County	37091	R	5.11E-04	5.11E-04	5.89E-04	6.73E-04	6.77E-04	7.66E-04	8.52E-04	8.52E-04	3.48E-04	3.28E-04	7.45E-07	1.49E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
North Carolina	Hoke County	37093	R	2.71E-04	2.71E-04	4.24E-04	5.88E-04	8.49E-04	1.27E-03	1.95E-03	1.95E-03	1.51E-04	6.94E-04	3.25E-06	3.35E-07	0.00E+00
North Carolina	Hyde County	37095	R	3.03E-07	3.03E-07	3.03E-07	4.31E-07	4.31E-07	5.59E-07	5.59E-07	5.59E-07	0.00E+00	1.67E-07	4.07E-08	2.23E-07	0.00E+00
North Carolina	Iredell County	37097	R	7.39E-04	7.46E-04	8.67E-04	9.46E-04	9.70E-04	1.02E-03	1.26E-03	1.40E-03	3.68E-04	5.91E-04	1.03E-05	7.82E-07	0.00E+00
North Carolina	Jackson County	37099	R	2.12E-04	2.12E-04	4.10E-04	9.83E-04	1.22E-03	1.16E-03	3.41E-03	3.41E-03	2.19E-05	1.20E-03	1.59E-06	1.44E-07	0.00E+00
North Carolina	Johnston County	37101	U	1.65E-04	1.69E-04	2.02E-04	3.23E-04	3.80E-04	4.25E-04	5.69E-04	1.09E-03	1.07E-04	2.66E-04	6.30E-06	6.09E-07	0.00E+00
North Carolina	Jones County	37103	R	1.12E-04	1.12E-04	1.12E-04	2.48E-04	2.26E-04	3.17E-04	3.17E-04	3.17E-04	1.40E-04	8.47E-05	9.22E-07	1.79E-07	0.00E+00
North Carolina	Lee County	37105	R	4.17E-04	4.17E-04	4.86E-04	5.80E-04	1.97E-03	1.95E-03	9.19E-03	9.19E-03	1.45E-03	5.12E-04	6.43E-06	1.00E-06	0.00E+00
North Carolina	Lenoir County	37107	R	2.26E-04	3.81E-04	4.55E-04	4.94E-04	5.27E-04	6.49E-04	7.10E-04	8.09E-04	3.13E-04	2.08E-04	5.38E-06	6.82E-07	0.00E+00
North Carolina	Lincoln County	37109	U	1.45E-03	1.46E-03	1.79E-03	2.30E-03	2.61E-03	3.37E-03	3.93E-03	4.75E-03	6.57E-04	1.94E-03	9.12E-06	7.07E-07	0.00E+00
North Carolina	McDowell County	37111	R	9.61E-04	9.61E-04	1.48E-03	1.66E-03	1.93E-03	2.42E-03	3.22E-03	3.22E-03	1.07E-03	8.57E-04	4.45E-06	3.98E-07	0.00E+00
North Carolina	Macon County	37113	R	2.47E-04	2.47E-04	4.43E-04	5.86E-04	6.07E-04	7.75E-04	9.87E-04	9.87E-04	5.85E-06	6.00E-04	1.27E-06	1.57E-07	0.00E+00
North Carolina	Madison County	37115	R	5.39E-05	5.39E-05	1.95E-04	2.26E-04	2.61E-04	3.37E-04	5.28E-04	5.28E-04	2.08E-04	5.00E-05	3.34E-06	2.53E-07	0.00E+00
North Carolina	Martin County	37117	R	9.21E-05	9.21E-05	9.43E-05	1.12E-04	2.62E-04	1.85E-04	9.75E-04	9.75E-04	2.81E-05	2.31E-04	2.12E-06	2.84E-07	0.00E+00
North Carolina	Mecklenburg County	37119	U	6.63E-04	8.92E-04	1.26E-03	1.72E-03	2.02E-03	2.53E-03	3.44E-03	4.13E-03	8.18E-04	1.17E-03	2.27E-05	2.78E-06	0.00E+00
North Carolina	Mitchell County	37121	R	3.10E-04	3.10E-04	4.07E-04	7.95E-04	1.04E-03	1.67E-03	2.26E-03	2.26E-03	1.71E-04	8.67E-04	2.05E-06	2.96E-07	0.00E+00
North Carolina	Montgomery County	37123	R	1.80E-04	1.80E-04	2.12E-04	2.82E-04	4.09E-04	4.05E-04	9.68E-04	9.68E-04	1.57E-04	2.50E-04	1.69E-06	1.38E-07	0.00E+00
North Carolina	Moore County	37125	R	1.14E-04	1.15E-04	1.28E-04	1.43E-04	2.06E-04	1.69E-04	4.83E-04	5.96E-04	3.13E-05	1.71E-04	3.55E-06	4.94E-07	0.00E+00
North Carolina	Nash County	37127	U	5.20E-04	7.46E-04	1.14E-03	4.20E-03	7.47E-03	1.22E-02	1.87E-02	2.48E-02	2.53E-06	7.46E-03	5.39E-06	7.69E-07	0.00E+00
North Carolina	New Hanover County	37129	R	3.01E-04	4.09E-04	5.74E-04	7.28E-04	7.61E-04	8.97E-04	1.01E-03	1.12E-03	4.98E-04	2.46E-04	8.42E-06	8.17E-06	0.00E+00
North Carolina	Northampton County	37131	R	1.24E-04	1.24E-04	1.56E-04	2.49E-04	2.49E-04	3.41E-04	3.72E-04	3.72E-04	1.13E-04	1.34E-04	1.51E-06	1.70E-07	0.00E+00
North Carolina	Onslow County	37133	R	1.93E-05	2.65E-05	3.42E-05	4.56E-05	6.00E-05	8.08E-05	1.02E-04	1.70E-04	2.56E-05	2.98E-05	4.04E-06	5.82E-07	0.00E+00
North Carolina	Orange County	37135	U	2.31E-04	2.64E-04	4.57E-04	5.37E-04	4.90E-04	5.74E-04	6.20E-04	6.37E-04	1.87E-04	2.92E-04	1.03E-05	1.21E-06	0.00E+00
North Carolina	Pamlico County	37137	R	1.74E-04	1.74E-04	1.74E-04	1.78E-04	1.78E-04	1.82E-04	1.82E-04	1.82E-04	7.71E-05	9.97E-05	6.32E-07	5.65E-07	0.00E+00
North Carolina	Pasquotank County	37139	R	8.49E-05	8.49E-05	8.72E-05	9.91E-05	1.40E-04	1.16E-04	3.89E-04	3.89E-04	3.67E-05	9.94E-05	3.55E-06	6.85E-07	0.00E+00
North Carolina	Pender County	37141	R	2.43E-04	2.43E-04	3.27E-04	6.58E-04	7.61E-04	1.28E-03	1.46E-03	1.46E-03	5.15E-04	2.43E-04	2.50E-06	7.40E-07	0.00E+00
North Carolina	Perquimans County	37143	R	1.65E-04	1.65E-04	1.65E-04	1.92E-04	1.92E-04	2.19E-04	2.19E-04	2.19E-04	8.64E-06	1.82E-04	6.88E-07	3.66E-07	0.00E+00
North Carolina	Person County	37145	R	3.30E-04	3.30E-04	3.41E-04	4.36E-04	4.45E-04	5.40E-04	5.88E-04	5.88E-04	3.98E-04	4.31E-05	3.65E-06	3.64E-07	0.00E+00
North Carolina	Pitt County	37147	U	1.29E-04	1.41E-04	1.54E-04	1.82E-04	2.66E-04	2.27E-04	5.84E-04	6.25E-04	1.47E-04	1.12E-04	6.12E-06	6.63E-07	0.00E+00
North Carolina	Polk County	37149	R	2.79E-04	2.79E-04	2.79E-04	3.42E-04	4.33E-04	6.77E-04	6.77E-04	6.77E-04	1.08E-04	3.19E-04	4.90E-06	2.78E-07	0.00E+00
North Carolina	Randolph County	37151	U	2.20E-03	2.54E-03	3.13E-03	4.01E-03	9.41E-03	6.97E-03	2.93E-02	3.97E-02	7.01E-03	2.40E-03	7.33E-06	6.25E-07	0.00E+00
North Carolina	Richmond County	37153	R	1.41E-04	1.86E-04	2.32E-04	2.40E-04	2.50E-04	2.86E-04	3.06E-04	3.52E-04	6.82E-05	1.76E-04	4.18E-06	1.01E-06	0.00E+00
North Carolina	Robeson County	37155	R	5.78E-04	6.11E-04	7.11E-04	1.60E-03	3.58E-03	3.62E-03	6.92E-03	1.65E-02	3.46E-03	1.23E-04	4.19E-06	4.98E-07	0.00E+00
North Carolina	Rockingham County	37157	R	5.16E-04	5.43E-04	6.06E-04	6.48E-04	8.84E-04	1.01E-03	1.79E-03	1.82E-03	4.97E-04	3.81E-04	4.97E-06	4.04E-07	0.00E+00
North Carolina	Rowan County	37159	U	1.09E-03	1.12E-03	1.23E-03	2.10E-03	2.80E-03	3.21E-03	6.33E-03	6.74E-03	1.91E-03	8.82E-04	1.10E-05	9.62E-07	0.00E+00
North Carolina	Rutherford County	37161	R	4.31E-04	9.65E-04	1.08E-03	1.30E-03	1.39E-03	1.71E-03	1.82E-03	2.58E-03	2.49E-04	1.14E-03	4.62E-06	3.93E-07	0.00E+00
North Carolina	Sampson County	37163	R	9.41E-05	1.69E-04	2.89E-04	3.75E-04	4.00E-04	4.80E-04	6.75E-04	7.62E-04	1.83E-04	2.13E-04	3.01E-06	2.69E-07	0.00E+00
North Carolina	Scotland County	37165	R	4.48E-04	4.48E-04	4.81E-04	1.05E-03	1.00E-03	1.15E-03	1.84E-03	1.84E-03	2.05E-04	7.94E-04	3.83E-06	4.45E-07	0.00E+00
North Carolina	Stanly County	37167	R	3.05E-04	4.07E-04	5.06E-04	1.89E-03	1.81E-03	3.07E-03	3.56E-03	3.75E-03	6.28E-04	1.18E-03	4.72E-06	7.23E-07	0.00E+00
North Carolina	Stokes County	37169	U	4.75E-04	4.75E-04	5.13E-04	5.34E-04	6.32E-04	6.93E-04	1.10E-03	1.10E-03	3.54E-04	2.74E-04	3.36E-06	2.85E-07	0.00E+00
North Carolina	Surry County	37171	R	5.73E-04	5.92E-04	6.45E-04	8.96E-04	9.24E-04	1.07E-03	1.38E-03	1.50E-03	7.13E-04	2.07E-04	3.97E-06	5.06E-07	0.00E+00
North Carolina	Swain County	37173	R	1.33E-04	1.33E-04	1.33E-04	1.85E-04	3.09E-04	6.10E-04	6.10E-04	6.10E-04	2.40E-05	2.84E-04	1.12E-06	1.42E-07	0.00E+00
North Carolina	Transylvania County	37175	R	4.11E-04	4.11E-04	4.89E-04	5.66E-04	5.85E-04	6.92E-04	7.84E-04	7.84E-04	4.48E-04	1.34E-04	2.35E-06	4.14E-07	0.00E+00
North Carolina	Tyrrell County	37177	R	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	3.94E-05	0.00E+00	3.91E-05	1.38E-07	2.31E-07	0.00E+00
North Carolina	Union County	37179	U	2.84E-04	3.57E-04	5.16E-04	7.13E-04	8.75E-04	1.00E-03	1.93E-03	2.35E-03	3.40E-04	5.27E-04	6.81E-06	8.38E-07	0.00E+00
North Carolina	Vance County	37181	R	1.54E-04	1.80E-04	2.10E-04	3.87E-04	4.20E-04	5.65E-04	7.24E-04	7.53E-04	2.13E-05	3.92E-04	5.64E-06	4.33E-07	0.00E+00
North Carolina	Wake County	37183	U	2.45E-04	2.65E-04	3.06E-04	3.72E-04	1.23E-03	6.29E-04	1.28E-03	2.23E-03	1.06E-04	1.10E-03	1.91E-05	2.00E-06	0.00E+00
North Carolina	Warren County	37185	R	2.24E-04	2.24E-04	4.04E-04	6.01E-04	5.58E-04	7.11E-04	8.03E-04	8.03E-04	6.97E-07	5.55E-04	2.15E-06	1.88E-07	0.00E+00
North Carolina	Washington County	37187	R	1.05E-04	1.05E-04	1.05E-04	1.12E-04	1.69E-04	2.91E-04	2.91E-04	2.91E-04	9.07E-05	7.76E-05	5.31E-07	2.36E-07	0.00E+00
North Carolina	Watauga County	37189	R	1.06E-03	2.51E-03	4.47E-03	7.12E-03	1.96E-02	1.42E-02	7.07E-02	1.15E-01	5.43E-05	1.95E-02	3.89E-06	3.13E-07	0.00E+00
North Carolina	Wayne County	37191	R	6.00E-04	6.01E-04	1.10E-03	1.61E-03	1.52E-03	1.90E-03	2.04E-03	2.11E-03	9.71E-04	5.38E-04	5.82E-06	6.77E-07	0.00E+00
North Carolina	Wilkes County	37193	R	5.75E-04	5.88E-04	6.33E-04	1.17E-03	1.23E-03	1.57E-03	2.12E-03	2.44E-03	3.95E-04	8.34E-04	3.24E-06	3.68E-07	0.00E+00
North Carolina	Wilson County	37195	U	3.12E-04	1.22E-03	2.24E-03	2.77E-03	2.60E-03	2.99E-03	3.22E-03	4.59E-03	1.15E-04	2.47E-03	7.68E-06	8.64E-07	0.00E+00
North Carolina	Yadkin County	37197	U	8.26E-04	8.26E-04	8.68E-04	1.01E-03	1.20E-03	1.65E-03	2.04E-03	2.04E-03	1.06E-03	1.32E-04	3.90E-06	2.56E-07	0.00E+00
North Carolina	Yancey County	37199	R	3.36E-04	3.36E-04	3.53E-04	3.75E-04	4.03E-04	4.52E-04	5.25E-04	5.25E-04	1.08E-04	2.92E-04	2.58E-06	2.62E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
North Dakota	Statewide	N/A	N/A	3.71E-07	4.15E-07	7.22E-07	9.70E-06	3.82E-04	1.58E-04	7.16E-04	1.48E-03	3.12E-04	6.74E-05	1.55E-06	5.70E-07	0.00E+00
North Dakota	All Urban Counties	N/A	U	7.31E-07	9.07E-07	8.27E-06	4.04E-05	3.87E-04	3.39E-04	8.70E-04	1.41E-03	3.11E-04	7.29E-05	2.52E-06	8.23E-07	0.00E+00
North Dakota	All Rural Counties	N/A	R	2.81E-07	3.67E-07	4.31E-07	7.02E-07	3.75E-04	7.20E-06	1.94E-04	3.07E-03	3.14E-04	6.04E-05	2.90E-07	2.42E-07	0.00E+00
North Dakota	Adams County	38001	R	4.99E-07	4.99E-07	4.99E-07	4.99E-07	4.99E-07	4.99E-07	4.99E-07	4.99E-07	0.00E+00	2.41E-07	8.43E-08	1.74E-07	0.00E+00
North Dakota	Barnes County	38003	U	8.36E-07	8.36E-07	1.41E-04	2.99E-04	3.08E-04	4.75E-04	6.33E-04	6.33E-04	0.00E+00	3.06E-04	1.26E-06	6.77E-07	0.00E+00
North Dakota	Benson County	38005	R	3.71E-07	3.71E-07	3.83E-07	5.34E-07	6.24E-07	8.66E-07	1.06E-06	1.06E-06	0.00E+00	3.45E-07	1.07E-07	1.72E-07	0.00E+00
North Dakota	Billings County	38007	R	5.44E-07	5.44E-07	5.44E-07	5.44E-07	5.44E-07	5.44E-07	5.44E-07	5.44E-07	0.00E+00	2.54E-07	1.76E-07	1.13E-07	0.00E+00
North Dakota	Bottineau County	38009	R	3.00E-07	3.00E-07	3.00E-07	9.83E-06	6.65E-06	9.83E-06	9.83E-06	9.83E-06	0.00E+00	5.59E-06	8.23E-07	2.38E-07	0.00E+00
North Dakota	Bowman County	38011	R	2.89E-07	2.89E-07	2.89E-07	1.50E-06	1.50E-06	2.70E-06	2.70E-06	2.70E-06	0.00E+00	7.85E-07	5.45E-07	1.65E-07	0.00E+00
North Dakota	Burke County	38013	R	2.98E-07	2.98E-07	2.98E-07	4.04E-07	4.04E-07	5.10E-07	5.10E-07	5.10E-07	0.00E+00	2.26E-07	4.56E-08	1.33E-07	0.00E+00
North Dakota	Burleigh County	38015	U	5.89E-06	3.11E-05	9.20E-05	1.58E-04	1.33E-04	1.82E-04	1.95E-04	1.99E-04	9.00E-05	3.85E-05	3.17E-06	1.06E-06	0.00E+00
North Dakota	Cass County	38017	U	8.87E-05	1.77E-04	4.82E-04	6.62E-04	1.37E-03	1.41E-03	1.64E-03	1.74E-03	1.23E-03	1.31E-04	4.78E-06	1.30E-06	0.00E+00
North Dakota	Cavalier County	38019	R	3.75E-07	3.75E-07	3.75E-07	1.46E-06	1.95E-06	4.00E-06	4.00E-06	4.00E-06	5.66E-07	6.22E-07	4.35E-07	3.23E-07	0.00E+00
North Dakota	Dickey County	38021	R	7.02E-07	7.02E-07	7.02E-07	5.44E-06	3.86E-04	1.15E-03	1.15E-03	1.15E-03	3.84E-04	1.62E-06	5.47E-07	2.60E-07	0.00E+00
North Dakota	Divide County	38023	R	4.07E-07	4.07E-07	4.07E-07	4.07E-07	4.07E-07	4.07E-07	4.07E-07	4.07E-07	0.00E+00	2.03E-07	5.02E-08	1.53E-07	0.00E+00
North Dakota	Dunn County	38025	R	2.81E-07	2.81E-07	2.81E-07	3.35E-07	3.35E-07	3.88E-07	3.88E-07	3.88E-07	0.00E+00	1.87E-07	5.87E-08	8.88E-08	0.00E+00
North Dakota	Eddy County	38027	R	4.31E-07	4.31E-07	4.31E-07	5.61E-07	5.29E-07	5.97E-07	5.97E-07	5.97E-07	0.00E+00	2.47E-07	9.51E-08	1.87E-07	0.00E+00
North Dakota	Emmons County	38029	R	6.12E-07	6.12E-07	6.12E-07	2.27E-06	2.27E-06	3.93E-06	3.93E-06	3.93E-06	0.00E+00	1.39E-06	6.70E-07	2.07E-07	0.00E+00
North Dakota	Foster County	38031	R	5.54E-07	5.54E-07	5.54E-07	2.96E-06	2.96E-06	5.36E-06	5.36E-06	5.36E-06	0.00E+00	1.77E-06	7.89E-07	4.03E-07	0.00E+00
North Dakota	Golden Valley County	38033	R	4.83E-07	4.83E-07	4.83E-07	4.83E-07	4.83E-07	4.83E-07	4.83E-07	4.83E-07	0.00E+00	1.56E-07	1.49E-07	1.78E-07	0.00E+00
North Dakota	Grand Forks County	38035	U	1.58E-06	2.52E-06	8.08E-06	2.40E-05	3.03E-05	3.90E-05	4.36E-05	1.35E-04	6.01E-06	2.11E-05	2.29E-06	9.05E-07	0.00E+00
North Dakota	Grant County	38037	R	2.42E-07	2.42E-07	2.42E-07	3.80E-07	3.80E-07	5.18E-07	5.18E-07	5.18E-07	0.00E+00	2.03E-07	5.69E-08	1.20E-07	0.00E+00
North Dakota	Griggs County	38039	R	4.43E-07	4.43E-07	4.43E-07	7.35E-07	7.35E-07	1.03E-06	1.03E-06	1.03E-06	0.00E+00	3.73E-07	1.06E-07	2.56E-07	0.00E+00
North Dakota	Hettinger County	38041	R	3.67E-07	3.67E-07	3.67E-07	4.68E-07	4.68E-07	5.69E-07	5.69E-07	5.69E-07	0.00E+00	2.20E-07	6.97E-08	1.78E-07	0.00E+00
North Dakota	Kidder County	38043	R	3.84E-07	3.84E-07	3.84E-07	5.60E-07	5.60E-07	7.36E-07	7.36E-07	7.36E-07	0.00E+00	2.48E-07	1.46E-07	1.67E-07	0.00E+00
North Dakota	LaMoure County	38045	R	7.22E-07	7.22E-07	7.22E-07	5.37E-06	5.37E-06	1.00E-05	1.00E-05	1.00E-05	4.65E-06	3.70E-07	1.07E-07	2.47E-07	0.00E+00
North Dakota	Logan County	38047	R	4.21E-07	4.21E-07	4.21E-07	4.21E-07	4.21E-07	4.21E-07	4.21E-07	4.21E-07	0.00E+00	2.01E-07	6.49E-08	1.54E-07	0.00E+00
North Dakota	McHenry County	38049	R	3.71E-07	3.71E-07	3.71E-07	4.15E-07	4.54E-07	5.75E-07	5.75E-07	5.75E-07	0.00E+00	2.66E-07	6.65E-08	1.21E-07	0.00E+00
North Dakota	McIntosh County	38051	R	4.62E-07	4.62E-07	4.62E-07	4.62E-07	4.62E-07	4.62E-07	4.62E-07	4.62E-07	0.00E+00	2.31E-07	7.60E-08	1.55E-07	0.00E+00
North Dakota	McKenzie County	38053	R	4.18E-07	4.18E-07	4.76E-07	5.75E-07	1.36E-06	2.24E-06	3.87E-06	3.87E-06	0.00E+00	8.58E-07	3.90E-07	1.12E-07	0.00E+00
North Dakota	McLean County	38055	R	3.59E-05	3.59E-05	7.10E-05	1.50E-04	1.97E-04	3.23E-04	4.51E-04	4.51E-04	1.96E-04	5.60E-07			

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State	County	FIPS	Urban or Rural	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
North Dakota	Wells County	38103	R	4.54E-07	4.54E-07	4.54E-07	6.44E-07	3.12E-06	8.27E-06	8.27E-06	8.27E-06	0.00E+00	2.15E-06	6.27E-07	3.43E-07	0.00E+00
North Dakota	Williams County	38105	U	7.92E-07	7.92E-07	8.06E-07	4.00E-06	9.26E-06	1.45E-05	3.16E-05	3.16E-05	0.00E+00	6.49E-06	2.37E-06	4.02E-07	0.00E+00
Ohio	Statewide	N/A	N/A	2.25E-04	3.63E-04	9.64E-04	2.25E-03	8.04E-03	4.92E-03	1.06E-02	1.91E-02	5.36E-03	2.66E-03	1.32E-05	5.59E-06	0.00E+00
Ohio	All Urban Counties	N/A	U	3.03E-04	5.60E-04	1.27E-03	2.58E-03	6.97E-03	5.23E-03	1.09E-02	1.88E-02	4.13E-03	2.82E-03	1.52E-05	6.33E-06	0.00E+00
Ohio	All Rural Counties	N/A	R	7.24E-05	1.66E-04	3.62E-04	7.20E-04	1.33E-02	1.79E-03	7.19E-03	2.69E-02	1.14E-02	1.87E-03	3.34E-06	1.92E-06	0.00E+00
Ohio	Adams County	39001	R	1.07E-04	1.07E-04	1.17E-04	1.60E-04	1.65E-04	1.82E-04	2.65E-04	2.65E-04	1.46E-04	1.25E-05	1.18E-06	4.92E-06	0.00E+00
Ohio	Allen County	39003	U	3.34E-04	5.32E-04	1.47E-03	2.41E-03	3.16E-03	3.45E-03	5.06E-03	1.41E-02	1.49E-03	1.66E-03	7.52E-06	8.24E-07	0.00E+00
Ohio	Ashland County	39005	R	1.13E-04	2.01E-04	2.57E-04	6.08E-04	2.08E-03	1.57E-03	3.29E-03	1.43E-02	1.41E-05	2.06E-03	5.02E-06	6.71E-07	0.00E+00
Ohio	Ashtabula County	39007	U	1.27E-04	1.29E-04	2.07E-04	4.10E-04	1.22E-03	2.50E-03	3.08E-03	3.21E-03	8.51E-05	1.10E-03	7.42E-06	2.91E-05	0.00E+00
Ohio	Athens County	39009	R	7.24E-06	3.20E-05	1.73E-04	8.86E-03	7.16E-03	1.16E-02	1.47E-02	2.83E-02	7.00E-03	1.54E-04	4.21E-06	2.83E-06	0.00E+00
Ohio	Auglaize County	39011	U	1.12E-03	1.30E-03	1.91E-03	2.39E-03	2.16E-02	4.82E-03	9.80E-02	1.68E-01	1.11E-03	2.05E-02	3.06E-06	6.29E-07	0.00E+00
Ohio	Belmont County	39013	R	1.52E-04	1.64E-04	5.59E-04	7.72E-04	7.64E-04	9.67E-04	1.19E-03	1.75E-03	2.22E-04	5.31E-04	5.32E-06	5.82E-06	0.00E+00
Ohio	Brown County	39015	U	3.32E-05	3.32E-05	7.02E-05	9.17E-05	9.76E-05	1.35E-04	1.54E-04	1.54E-04	5.87E-05	3.28E-05	1.97E-06	4.15E-06	0.00E+00
Ohio	Butler County	39017	U	3.32E-04	5.57E-04	3.41E-03	4.77E-03	1.15E-02	8.03E-03	1.88E-02	4.50E-02	1.10E-02	4.32E-04	1.38E-05	3.31E-06	0.00E+00
Ohio	Carroll County	39019	U	4.83E-04	4.83E-04	5.32E-04	8.89E-04	8.81E-04	1.32E-03	1.45E-03	1.45E-03	1.39E-04	7.39E-04	1.82E-06	4.30E-07	0.00E+00
Ohio	Champaign County	39021	R	1.97E-04	1.97E-04	4.78E-04	6.46E-04	6.44E-04	8.33E-04	1.03E-03	1.03E-03	2.52E-05	6.14E-04	3.92E-06	5.98E-07	0.00E+00
Ohio	Clark County	39023	U	1.24E-04	2.60E-04	3.00E-04	3.73E-04	9.07E-04	5.44E-04	7.85E-04	1.84E-03	9.70E-06	8.85E-04	1.13E-05	1.08E-06	0.00E+00
Ohio	Clermont County	39025	U	2.23E-04	2.38E-04	5.60E-04	8.81E-04	8.35E-04	1.09E-03	1.33E-03	1.43E-03	5.06E-04	3.13E-04	1.16E-05	3.51E-06	0.00E+00
Ohio	Clinton County	39027	R	5.38E-06	5.38E-06	8.57E-05	1.87E-04	1.76E-04	2.68E-04	3.76E-04	3.76E-04	1.37E-04	3.49E-05	3.60E-06	8.00E-07	0.00E+00
Ohio	Columbiana County	39029	U	1.37E-03	1.48E-03	1.88E-03	2.61E-03	2.89E-03	3.18E-03	3.61E-03	4.36E-03	5.81E-04	2.30E-03	4.77E-06	6.11E-06	0.00E+00
Ohio	Coshocton County	39031	R	1.04E-03	1.48E-03	2.18E-03	4.37E-03	4.25E-03	6.01E-03	7.42E-03	8.55E-03	2.62E-03	1.63E-03	3.33E-06	6.09E-07	0.00E+00
Ohio	Crawford County	39033	U	1.50E-04	1.58E-04	2.46E-04	2.67E-04	2.73E-04	3.05E-04	3.61E-04	4.68E-04	6.44E-05	2.05E-04	2.76E-06	8.29E-07	0.00E+00
Ohio	Cuyahoga County	39035	U	1.39E-03	1.84E-03	2.93E-03	5.45E-03	8.66E-03	1.04E-02	1.91E-02	2.37E-02	6.95E-03	1.68E-03	1.85E-05	9.98E-06	0.00E+00
Ohio	Darke County	39037	R	3.61E-04	6.21E-04	6.88E-04	7.79E-04	8.12E-04	8.38E-04	1.12E-03	1.50E-03	8.43E-05	7.24E-04	3.11E-06	6.30E-07	0.00E+00
Ohio	Defiance County	39039	U	1.57E-03	1.57E-03	2.39E-03	3.18E-03	3.51E-03	3.53E-03	9.28E-03	9.28E-03	2.74E-03	7.69E-04	2.92E-06	8.26E-07	0.00E+00
Ohio	Delaware County	39041	U	5.08E-04	7.43E-04	1.23E-03	1.47E-03	2.01E-03	1.66E-03	1.82E-03	1.97E-03	3.83E-04	1.62E-03	7.57E-06	1.41E-06	0.00E+00
Ohio	Erie County	39043	U	2.25E-04	2.40E-04	4.95E-04	5.58E-04	5.61E-04	6.30E-04	8.24E-04	9.43E-04	6.60E-05	4.85E-04	3.53E-06	6.05E-06	0.00E+00
Ohio	Fairfield County	39045	U	3.73E-04	5.06E-04	6.10E-04	7.39E-04	1.05E-03	1.46E-03	2.26E-03	2.27E-03	1.53E-04	8.88E-04	6.47E-06	8.35E-07	0.00E+00
Ohio	Fayette County	39047	R	1.36E-05	1.36E-05	1.03E-04	1.85E-04	2.44E-04	2.23E-04	8.00E-04	8.00E-04	1.80E-04	6.16E-05	2.51E-06	6.76E-07	0.00E+00
Ohio	Franklin County	39049	U	1.92E-03	2.11E-03	2.55E-03	3.79E-03	6.30E-03	6.46E-03	1.08E-02	1.50E-02	2.03E-03	4.25E-03	2.03E-05	2.42E-06	0.00E+00
Ohio	Fulton County	39051	U	9.04E-04	9.04E-04	1.41E-03	1.74E-03	2.05E-03	1.99E-03	5.41E-03	5.41E-03	6.07E-04	1.43			

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

State	County	FIPS	Urban or Rural	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
Ohio	Mahoning County	39099	U	2.27E-03	3.36E-03	4.40E-03	5.41E-03	1.21E-02	7.71E-03	1.41E-02	2.64E-02	1.04E-03	1.10E-02	1.13E-05	1.20E-06	0.00E+00
Ohio	Marion County	39101	U	2.72E-04	3.62E-04	4.40E-04	5.73E-04	7.53E-04	7.12E-04	9.64E-04	3.72E-03	6.31E-04	1.16E-04	4.59E-06	8.76E-07	0.00E+00
Ohio	Medina County	39103	U	8.88E-04	9.59E-04	1.53E-03	1.95E-03	2.54E-03	3.06E-03	3.96E-03	5.81E-03	1.49E-03	1.05E-03	7.85E-06	1.30E-06	0.00E+00
Ohio	Meigs County	39105	R	5.43E-04	5.43E-04	6.36E-04	1.82E-03	4.40E-03	5.69E-03	1.59E-02	1.59E-02	3.71E-03	6.83E-04	1.57E-06	7.07E-06	0.00E+00
Ohio	Mercer County	39107	R	1.04E-03	1.04E-03	1.21E-03	1.59E-03	1.69E-03	1.83E-03	3.09E-03	3.09E-03	2.80E-04	1.41E-03	2.02E-06	5.15E-07	0.00E+00
Ohio	Miami County	39109	U	3.41E-04	3.98E-04	8.13E-04	1.11E-03	1.51E-03	1.58E-03	2.84E-03	4.87E-03	3.07E-05	1.47E-03	6.24E-06	8.41E-07	0.00E+00
Ohio	Monroe County	39111	R	2.12E-04	2.12E-04	2.67E-04	4.68E-04	7.01E-03	1.37E-02	2.69E-02	2.69E-02	6.65E-03	3.54E-04	1.11E-06	5.27E-06	0.00E+00
Ohio	Montgomery County	39113	U	8.94E-04	9.65E-04	1.14E-03	1.37E-03	1.52E-03	1.80E-03	2.27E-03	2.56E-03	9.97E-04	5.04E-04	1.81E-05	1.86E-06	0.00E+00
Ohio	Morgan County	39115	R	4.07E-02	4.07E-02	5.01E-02	6.39E-02	6.78E-02	8.56E-02	1.03E-01	1.03E-01	6.69E-02	9.45E-04	1.54E-06	1.08E-06	0.00E+00
Ohio	Morrow County	39117	R	1.87E-04	1.87E-04	1.98E-04	3.71E-04	4.74E-04	4.01E-04	1.32E-03	1.32E-03	1.48E-04	3.23E-04	2.39E-06	4.07E-07	0.00E+00
Ohio	Muskingum County	39119	R	3.36E-04	3.36E-04	5.74E-04	7.21E-04	7.24E-04	8.76E-04	9.31E-04	1.52E-03	3.71E-04	3.49E-04	4.19E-06	6.67E-07	0.00E+00
Ohio	Noble County	39121	R	8.63E-04	8.63E-04	8.63E-04	4.65E-02	3.50E-02	5.76E-02	5.76E-02	5.76E-02	3.37E-02	1.32E-03	2.59E-06	1.30E-06	0.00E+00
Ohio	Ottawa County	39123	R	3.42E-04	3.52E-04	4.27E-04	5.38E-04	5.09E-04	5.87E-04	6.15E-04	6.52E-04	7.94E-05	4.25E-04	2.46E-06	2.44E-06	0.00E+00
Ohio	Paulding County	39125	R	6.23E-04	6.23E-04	8.09E-04	1.50E-03	1.35E-03	1.62E-03	2.18E-03	2.18E-03	5.43E-04	8.01E-04	1.76E-06	5.59E-07	0.00E+00
Ohio	Perry County	39127	R	1.30E-05	1.30E-05	2.07E-05	4.77E-05	1.04E-04	1.21E-04	3.73E-04	3.73E-04	2.18E-05	7.95E-05	2.22E-06	3.71E-07	0.00E+00
Ohio	Pickaway County	39129	U	1.03E-03	1.27E-03	1.41E-03	2.45E-03	2.22E-03	2.80E-03	2.85E-03	3.68E-03	7.00E-04	1.51E-03	4.69E-06	9.45E-07	0.00E+00
Ohio	Pike County	39131	R	1.05E-04	1.05E-04	1.66E-04	4.30E-04	3.92E-04	5.49E-04	6.70E-04	6.70E-04	3.34E-04	5.45E-05	1.56E-06	1.25E-06	0.00E+00
Ohio	Portage County	39133	U	1.52E-03	1.79E-03	2.17E-03	2.49E-03	2.80E-03	2.87E-03	4.29E-03	6.82E-03	7.57E-04	2.04E-03	7.75E-06	1.16E-06	0.00E+00
Ohio	Preble County	39135	R	3.36E-04	3.59E-04	3.87E-04	4.47E-04	6.84E-04	6.18E-04	1.66E-03	1.66E-03	1.90E-04	4.90E-04	3.43E-06	5.31E-07	0.00E+00
Ohio	Putnam County	39137	R	4.00E-04	4.00E-04	4.01E-04	4.70E-04	4.83E-04	5.60E-04	5.89E-04	5.89E-04	4.06E-04	7.48E-05	2.04E-06	6.27E-07	0.00E+00
Ohio	Richland County	39139	U	1.35E-04	1.43E-04	1.71E-04	2.40E-04	3.19E-04	3.69E-04	5.27E-04	1.05E-03	8.18E-05	2.31E-04	5.14E-06	7.70E-07	0.00E+00
Ohio	Ross County	39141	R	1.28E-04	2.36E-04	6.41E-04	1.16E-03	1.35E-03	2.06E-03	2.57E-03	2.91E-03	1.26E-03	8.50E-05	2.47E-06	5.28E-07	0.00E+00
Ohio	Sandusky County	39143	R	4.02E-04	4.64E-04	6.03E-04	1.33E-03	3.27E-03	4.03E-03	5.08E-03	2.00E-02	5.85E-05	3.20E-03	3.19E-06	1.85E-06	0.00E+00
Ohio	Scioto County	39145	R	2.36E-04	1.40E-03	3.39E-03	4.31E-03	4.45E-03	5.16E-03	7.71E-03	8.72E-03	3.93E-03	5.08E-04	4.24E-06	5.13E-06	0.00E+00
Ohio	Seneca County	39147	R	1.30E-04	1.87E-04	2.12E-04	2.35E-04	2.54E-04	2.54E-04	2.85E-04	5.80E-04	4.81E-06	2.45E-04	2.87E-06	9.24E-07	0.00E+00
Ohio	Shelby County	39149	R	1.15E-03	1.28E-03	1.43E-03	1.88E-03	2.15E-03	2.09E-03	3.95E-03	4.85E-03	1.23E-04	2.02E-03	3.11E-06	7.88E-07	0.00E+00
Ohio	Stark County	39151	U	9.82E-04	1.20E-03	1.40E-03	1.85E-03	2.83E-03	3.49E-03	4.85E-03	6.22E-03	2.75E-04	2.55E-03	1.01E-05	1.18E-06	0.00E+00
Ohio	Summit County	39153	U	8.85E-04	9.14E-04	1.10E-03	1.41E-03	2.32E-03	1.92E-03	2.98E-03	4.45E-03	3.19E-04	1.99E-03	1.27E-05	1.63E-06	0.00E+00
Ohio	Trumbull County	39155	U	4.49E-03	7.04E-03	9.81E-03	1.41E-02	3.42E-02	4.47E-02	7.75E-02	1.27E-01	1.32E-02	2.10E-02	8.27E-06	1.08E-06	0.00E+00
Ohio	Tuscarawas County	39157	R	7.36E-04	7.71E-04	8.95E-04	1.10E-03	1.44E-03	1.25E-03	2.41E-03	4.43E-03	2.92E-04	1.14E-03	3.40E-06	5.38E-07	0.00E+00
Ohio	Union County	39159	R	4.42E-04	4.42E-04	4.56E-04	5.01E-04	6.49E-04	6.73E-04	1.43E-03	1.43E-03	2.83E-04	3.61E-04	3.70E-06	1.06E-06	0.00E+00
Ohio	Van Wert County	39161	R	4.54E-04	4.54E-04	4.64E-04	5.37E-04	6.63E-04	8.71E-04	1.08E-03	1.08E-03	1.28E-04	5.31E-04	2.97E-06	8.30E-07	0.00E+00
Ohio	Vinton County	39163	R	2.54E-04	2.54E-04	2.54E-04	3.69E-04	3.55E-04	4.41E-04	4.41E-04	4.41E-04	2.65E-04	8.83E-05	1.25E-06	3.75E-07	0.00E+00
Ohio	Warren County	39165	U	7.31E-04	7.72E-04	1.24E-03	2.00E-03	2.51E-03	3.10E-03	5.20E-03	5.69E-03	2.15E-03	3.43E-04	1.29E-05	2.27E-06	0.00E+00
Ohio	Washington County	39167	R	4.04E-02	4.07E-02	7.15E-02	2.22E-01	3.33E-01	3.70E-01	5.60E-01	1.95E+00	3.06E-01	2.69E-02	5.77E-06	7.89E-06	0.00E+00
Ohio	Wayne County	39169	R	2.27E-04	2.53E-04	4.67E-04	5.48E-04	6.20E-04	7.42E-04	9.02E-04	1.40E-03	8.81E-05	5.28E-04	3.94E-06	7.39E-07	0.00E+00
Ohio	Williams County	39171	R	5.16E-04	5.16E-04	6.76E-04	2.01E-03	2.12E-03	2.34E-03	4.68E-03	4.68E-03	4.08E-04	1.71E-03	3.26E-06	7.53E-07	0.00E+00
Ohio	Wood County	39173	U	1.21E-04	2.47E-04	3.90E-04	4.85E-04	6.65E-04	8.49E-04	1.22E-03	1.62E-03	1.35E-04	5.20E-04	7.09E-06	2.32E-06	0.00E+00
Ohio	Wyandot County	39175	R	1.24E-04	1.24E-04	1.74E-04	4.36E-04	1.34E-03	1.32E-03	5.58E-03	5.58E-03	1.31E-04	1.21E-03	1.54E-06	5.24E-07	0.00E+00
Oklahoma	Statewide	N/A	N/A	1.26E-06	3.89E-06	5.50E-05	3.50E-04	1.44E-03	1.30E-03	2.34E-03	3.99E-03	7.22E-04	7.04E-04	9.84E-06	1.03E-06	0.00E+00
Oklahoma	All Urban Counties	N/A	U	8.88E-06	5.15E-05	1.80E-04	6.52E-04	1.87E-03	1.55E-03	2.78E-03	4.77E-03	9.42E-04	9.10E-04	1.26E-05	1.27E-06	0.00E+00
Oklahoma	All Rural Counties	N/A	R	5.34E-07	7.34E-07	2.17E-06	1.70E-05	1.53E-04	9.93E-05	3.16E-04	8.47E-04	6.54E-05	8.59E-05	1.61E-06	3.42E-07	0.00E+00
Oklahoma	Adair County	40001	R	2.26E-06	2.26E-06	2.54E-06	3.89E-06	4.85E-06	4.50E-06	1.11E-05	1.11E-05	0.00E+00	3.02E-06	1.68E-06	1.50E-07	0.00E+00
Oklahoma	Alfalfa County	40003	R	3.72E-07	3.72E-07	3.72E-07	1.01E-06	8.60E-07	1.20E-06	1.20E-06	1.20E-06	0.00E+00	5.22E-07	1.26E-07	2.12E-07	0.00E+00
Oklahoma	Atoka County	40005	R	6.47E-07	6.47E-07	7.46E-07	1.64E-07	1.01E-06	1.27E-06	1.66E-06	1.66E-06	0.00E+00	5.35E-07	3.86E-07	8.89E-08	0.00E+00
Oklahoma	Beaver County	40007	R	7.34E-07	7.34E-07	7.34E-07	5.43E-06	4.02E-06	5.91E-06	5.91E-06	5.91E-06	0.00E+00	3.23E-06	4.23E-07	3.75E-07	0.00E+00
Oklahoma	Beckham County	40009	U	6.08E-07	6.08E-07	6.36E-07	1.76E-06	1.75E-06	2.86E-06	2.86E-06	2.86E-06	0.00E+00	6.43E-07	9.63E-07	1.40E-07	0.00E+00
Oklahoma	Blaine County	40011	R	5.44E-07	5.44E-07	7.60E-07	2.50E-05	1.69E-05	2.65E-05	3.18E-05	3.18E-05	2.26E-07	1.62E-05	3.97E-07	1.48E-07	0.00E+00
Oklahoma	Bryan County	40013	R	1.41E-06	1.45E-06	3.13E-06	7.44E-06	1.05E-05	1.36E-05	2.80E-05	3.56E-05	0.00E+00	6.17E-06	3.20E-06	1.10E-06	0.00E+00
Oklahoma	Caddo County	40015	R	8.64E-07	8.64E-07	1.09E-06	2.59E-06	8.78E-06	1.16E-05	3.88E-05	3.88E-05	3.97E-08	7.77E-06	7.88E-07	1.84E-07	0.00E+00
Oklahoma	Canadian County	40017	U	1.20E-04	1.46E-04	1.82E-04	2.12E-04	2.22E-04	2.55E-04	3.06E-04	3.71E-04	1.01E-04	1.14E-04	6.61E-06	5.41E-07	0.00E+00
Oklahoma	Carter County	40019	U	1.06E-05	1.23E-05	1.74E-05	4.21E-05	6.35E-05	1.16E-04	1.37E-04	1.57E-04	2.84E-05	3.12E-05	3.27E-06	5.24E-07	0.00E+00
Oklahoma	Cherokee County	40021	R	4.57E-05	4.57E-05	6.15E-05	7.77E-05	8.73E-05	9.84E-05	1.78E-04	1.78E-04	6.70E-05	1.84E-05	1.71E-06	1.76E-07	0.00E+00
Oklahoma	Choctaw County	40023	R	4.20E-06	4.20E-06	2.48E-04	2.74E-04	3.33E-04	2.91E-04	8.50E-04	8.50E-04	2.32E-05	3.07E-04	2.18E-06	8.19E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Oklahoma	Cimarron County	40025	R	2.32E-07	2.32E-07	2.32E-07	6.59E-07	6.59E-07	1.09E-06	1.09E-06	1.09E-06	0.00E+00	3.45E-07	2.06E-07	1.08E-07	0.00E+00
Oklahoma	Cleveland County	40027	U	7.08E-05	9.50E-05	1.55E-04	2.19E-04	3.10E-04	4.73E-04	6.03E-04	7.35E-04	1.81E-04	1.17E-04	1.07E-05	8.88E-07	0.00E+00
Oklahoma	Coal County	40029	R	1.16E-06	1.16E-06	1.16E-06	1.31E-06	1.31E-06	1.45E-06	1.45E-06	1.45E-06	2.55E-07	5.71E-07	4.14E-07	6.54E-08	0.00E+00
Oklahoma	Comanche County	40031	U	5.42E-06	3.92E-05	5.15E-05	5.50E-05	5.72E-05	6.66E-05	8.45E-05	8.62E-05	2.73E-07	4.84E-05	7.95E-06	6.12E-07	0.00E+00
Oklahoma	Cotton County	40033	R	2.08E-06	2.08E-06	2.08E-06	9.82E-06	9.82E-06	1.75E-05	1.75E-05	1.75E-05	1.04E-07	8.25E-06	8.67E-07	5.94E-07	0.00E+00
Oklahoma	Craig County	40035	R	2.68E-05	2.68E-05	3.18E-05	9.95E-05	1.01E-04	1.49E-04	2.00E-04	2.00E-04	3.08E-05	6.71E-05	2.88E-06	5.03E-07	0.00E+00
Oklahoma	Creek County	40037	U	8.49E-05	9.81E-05	1.79E-04	2.82E-03	1.03E-02	6.09E-03	7.70E-03	2.36E-02	1.62E-03	8.63E-03	4.90E-06	4.36E-07	0.00E+00
Oklahoma	Custer County	40039	U	7.23E-07	7.23E-07	2.36E-06	2.40E-06	2.49E-06	3.49E-06	3.49E-06	3.49E-06	0.00E+00	1.03E-06	1.23E-06	2.33E-07	0.00E+00
Oklahoma	Delaware County	40041	R	3.14E-06	3.14E-06	3.42E-06	7.13E-06	8.77E-06	9.46E-06	2.52E-05	2.52E-05	1.37E-06	5.59E-06	1.47E-06	3.36E-07	0.00E+00
Oklahoma	Dewey County	40043	R	2.62E-07	2.62E-07	2.62E-07	3.45E-07	5.54E-07	1.06E-06	1.06E-06	1.06E-06	0.00E+00	3.44E-07	1.30E-07	8.01E-08	0.00E+00
Oklahoma	Ellis County	40045	R	2.99E-07	2.99E-07	2.99E-07	4.37E-07	4.37E-07	5.75E-07	5.75E-07	5.75E-07	0.00E+00	1.25E-07	1.00E-07	2.12E-07	0.00E+00
Oklahoma	Garfield County	40047	U	2.54E-06	3.37E-06	4.35E-06	8.88E-06	8.35E-06	1.03E-05	1.50E-05	1.53E-05	0.00E+00	5.28E-06	2.46E-06	6.05E-07	0.00E+00
Oklahoma	Garvin County	40049	R	2.36E-06	2.36E-06	3.80E-06	8.44E-06	1.29E-05	1.79E-05	3.97E-05	3.97E-05	9.45E-06	1.89E-06	1.39E-06	1.78E-07	0.00E+00
Oklahoma	Grady County	40051	R	9.82E-06	1.39E-05	1.45E-05	2.27E-05	4.53E-05	7.43E-05	7.94E-05	1.47E-04	1.80E-05	2.22E-05	4.75E-06	3.22E-07	0.00E+00
Oklahoma	Grant County	40053	R	8.56E-07	8.56E-07	8.56E-07	1.30E-06	1.30E-06	1.74E-06	1.74E-06	1.74E-06	0.00E+00	7.98E-07	2.34E-07	2.67E-07	0.00E+00
Oklahoma	Greer County	40055	R	6.43E-07	6.43E-07	6.43E-07	6.93E-07	6.93E-07	7.43E-07	7.43E-07	7.43E-07	0.00E+00	2.58E-07	2.60E-07	1.75E-07	0.00E+00
Oklahoma	Harmon County	40057	R	5.76E-07	5.76E-07	5.76E-07	5.76E-07	5.76E-07	5.76E-07	5.76E-07	5.76E-07	0.00E+00	1.03E-07	6.25E-08	4.11E-07	0.00E+00
Oklahoma	Harper County	40059	R	2.28E-07	2.28E-07	2.28E-07	2.36E-07	2.36E-07	2.45E-07	2.45E-07	2.45E-07	0.00E+00	6.35E-08	9.96E-08	7.30E-08	0.00E+00
Oklahoma	Haskell County	40061	R	1.07E-06	1.07E-06	4.78E-06	1.20E-05	5.05E-05	9.62E-05	1.77E-04	1.77E-04	6.19E-06	4.31E-05	9.33E-07	2.07E-07	0.00E+00
Oklahoma	Hughes County	40063	R	9.35E-06	9.35E-06	1.19E-05	2.59E-05	3.92E-05	6.01E-05	8.87E-05	8.87E-05	4.96E-07	3.78E-05	7.86E-07	1.19E-07	0.00E+00
Oklahoma	Jackson County	40065	U	7.38E-07	7.38E-07	1.09E-06	3.78E-06	5.31E-06	9.69E-06	1.26E-05	1.26E-05	0.00E+00	2.62E-06	2.19E-06	4.90E-07	0.00E+00
Oklahoma	Jefferson County	40067	R	5.34E-07	5.34E-07	5.34E-07	8.13E-06	1.15E-05	2.58E-05	2.58E-05	2.58E-05	2.33E-06	8.66E-06	2.87E-07	2.04E-07	0.00E+00
Oklahoma	Johnston County	40069	R	1.52E-06	1.52E-06	1.52E-06	3.23E-06	2.69E-06	3.33E-06	3.33E-06	3.33E-06	1.04E-06	8.93E-07	5.92E-07	1.68E-07	0.00E+00
Oklahoma	Kay County	40071	U	2.08E-05	3.25E-05	7.30E-05	1.18E-04	1.38E-04	1.96E-04	2.46E-04	3.06E-04	1.21E-04	1.32E-05	2.92E-06	6.15E-07	0.00E+00
Oklahoma	Kingfisher County	40073	R	1.02E-04	1.02E-04	2.09E-04	4.00E-04	5.68E-04	9.26E-04	1.37E-03	1.37E-03	8.09E-06	5.58E-04	8.10E-07	2.60E-07	0.00E+00
Oklahoma	Kiowa County	40075	R	4.21E-07	4.21E-07	4.21E-07	5.93E-07	5.56E-07	6.55E-07	6.55E-07	6.55E-07	0.00E+00	1.97E-07	2.25E-07	1.34E-07	0.00E+00
Oklahoma	Latimer County	40077	R	6.74E-07	6.74E-07	6.74E-07	1.05E-06	5.37E-06	1.44E-05	1.44E-05	1.44E-05	4.52E-06	4.64E-07	3.35E-07	6.08E-08	0.00E+00
Oklahoma	Le Flore County	40079	R	6.60E-07	6.60E-07	5.59E-04	1.50E-03	1.39E-03	2.33E-03	3.05E-03	3.05E-03	1.10E-03	2.82E-04	2.87E-06	2.39E-07	0.00E+00
Oklahoma	Lincoln County	40081	R	7.05E-06	7.05E-06	1.03E-05	5.55E-05	6.09E-05	1.01E-04	1.51E-04	1.51E-04	2.60E-05	3.31E-05	1.63E-06	9.73E-08	0.00E+00
Oklahoma	Logan County	40083	U	9.29E-06	9.29E-06	6.49E-05	1.17E-04	1.35E-04	2.20E-04	2.68E-04	2.68E-04	4.42E-05	8.68E-05	3.84E-06	3.88E-07	0.00E+00
Oklahoma	Love County	40085	R	5.23E-06	5.23E-06	5.23E-06	3.43E-05	2.54E-05	3.67E-05	3.67E-05	3.67E-05	1.90E-05	3.36E-06	1.73E-06	1.32E-06	0.00E+00
Oklahoma	McClain County	40087	U	6.28E-06	6.28E-06	6.84E-05	9.09E-05	8.39E-05	9.29E-05	1.61E-04	1.61E-04	5.47E-05	2.68E-05	2.12E-06	2.63E-07	0.00E+00
Oklahoma	McCurtain County	40089	R	9.91E-05	9.91E-05	2.31E-04	4.34E-04	5.76E-04	7.90E-04	1.60E-03	1.60E-03	1.84E-04	3.90E-04	1.25E-06	2.92E-07	0.00E+00
Oklahoma	McIntosh County	40091	R	1.59E-06	1.59E-06	2.03E-05	6.86E-05	8.51E-05	1.66E-04	1.72E-04	1.72E-04	8.24E-05	1.16E-06	1.31E-06	2.66E-07	0.00E+00
Oklahoma	Major County	40093	R	1.13E-06	1.13E-06	1.13E-06	1.35E-06	1.52E-06	2.07E-06	2.07E-06	2.07E-06	0.00E+00	1.15E-06	2.12E-07	1.55E-07	0.00E+00
Oklahoma	Marshall County	40095	R	1.48E-05	1.48E-05	1.48E-05	1.62E-05	1.60E-05	1.69E-05	1.69E-05	1.69E-05	4.50E-06	6.00E-06	3.07E-06	2.40E-06	0.00E+00
Oklahoma	Mayes County	40097	R	1.02E-05	1.02E-05	6.86E-05	2.91E-04	2.25E-04	3.31E-04	4.04E-04	4.04E-04	8.79E-05	1.34E-04	2.43E-06	5.92E-07	0.00E+00
Oklahoma	Murray County	40099	U	1.06E-05	1.06E-05	1.06E-05	1.24E-05	1.96E-05	3.57E-05	3.57E-05	3.57E-05	1.76E-05	1.12E-06	7.41E-07	1.18E-07	0.00E+00
Oklahoma	Muskogee County	40101	U	1.46E-04	2.18E-04	2.45E-04	6.55E-04	1.42E-03	2.16E-03	4.36E-03	5.50E-03	1.38E-03	3.64E-05	3.47E-06	5.65E-07	0.00E+00
Oklahoma	Noble County	40103	R	9.47E-05	9.47E-05	1.08E-04	1.71E-04	5.41E-04	9.75E-04	1.73E-03	1.73E-03	5.91E-05	4.80E-04	1.26E-06	4.13E-07	0.00E+00
Oklahoma	Nowata County	40105	R	1.62E-04	1.62E-04	1.62E-04	2.17E-04	3.43E-04	5.24E-04	7.77E-04	7.77E-04	4.10E-05	3.01E-04	9.10E-07	2.06E-07	0.00E+00
Oklahoma	Okfuskee County	40107	R	2.23E-05	2.23E-05	2.65E-05	3.59E-05	4.19E-05	5.73E-05	7.35E-05	7.35E-05	8.69E-07	3.96E-05	1.34E-06	8.26E-08	0.00E+00
Oklahoma	Oklahoma County	40109	U	1.39E-04	2.16E-04	4.50E-04	8.35E-04	1.72E-03	1.59E-03	2.96E-03	4.63E-03	1.30E-03	4.05E-04	1.79E-05	1.23E-06	0.00E+00
Oklahoma	Okmulgee County	40111	U	6.45E-06	6.45E-06	3.51E-05	1.58E-04	3.43E-04	4.40E-04	1.52E-03	1.52E-03	7.07E-05	2.68E-04	3.81E-06	3.28E-07	0.00E+00
Oklahoma	Osage County	40113	U	1.75E-06	1.29E-05	4.13E-05	6.97E-04	1.72E-03	3.68E-03	4.47E-03	4.47E-03	9.00E-04	8.10E-04	4.10E-06	4.14E-07	0.00E+00
Oklahoma	Ottawa County	40115	U	2.74E-04	2.74E-04	4.51E-04	5.77E-04	5.70E-04	6.13E-04	9.24E-04	9.24E-04	4.82E-05	5.17E-04	4.09E-06	4.00E-07	0.00E+00
Oklahoma	Pawnee County	40117	R	2.94E-05	2.94E-05	3.02E-05	3.19E-04	3.40E-04	4.54E-04	8.70E-04	8.70E-04	2.08E-04	1.31E-04	1.51E-06	2.35E-07	0.00E+00
Oklahoma	Payne County	40119	U	5.73E-06	6.42E-06	5.67E-05	1.34E-04	1.51E-04	1.61E-04	1.78E-04	8.27E-04	4.14E-05	1.04E-04	5.06E-06	6.52E-07	0.00E+00
Oklahoma	Pittsburg County	40121	R	7.91E-07	9.28E-07	1.26E-06	2.00E-06	5.21E-06	1.03E-05	1.30E-05	1.45E-05	0.00E+00	2.98E-06	1.91E-06	3.20E-07	0.00E+00
Oklahoma	Pontotoc County	40123	R	2.00E-06	3.12E-06	2.08E-05	3.79E-05	3.73E-05	5.23E-05	6.77E-05	7.85E-05	1.22E-06	3.28E-05	2.83E-06	4.40E-07	0.00E+00
Oklahoma	Pottawatomie County	40125	U	4.37E-05	5.86E-05	1.23E-04	2.28E-04	8.70E-04	4.34E-04	7.28E-04	9.52E-03	7.40E-04	1.28E-04	1.71E-06	2.21E-07	0.00E+00
Oklahoma	Pushmataha County	40127	R	5.20E-07	5.20E-07	5.20E-07	4.94E-06	1.22E-04	3.60E-04	3.60E-04	3.60E-04	2.34E-05	9.79E-05	3.30E-07	5.62E-08	0.00E+00
Oklahoma	Roger Mills County	40129	R	2.17E-07	2.17E-07	2.17E-07	2.17E-07	2.17E-07	2.17E-07	2.17E-07	2.17E-07	0.00E+00	9.41E-08	8.46E-08	3.81E-08	0.00E+00
Oklahoma	Rogers County	40131	U	7.14E-05	8.62E-05	1.59E-04	3.58E-04	1.38E-03	6.29E-04	1.97E-03	3.88E-03	1.34E-04	1.24E-03	4.47E-06	4.57E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
Oklahoma	Seminole County	40133	R	4.08E-05	4.08E-05	1.00E-04	1.62E-04	4.67E-04	1.75E-04	3.14E-03	3.14E-03	6.25E-06	4.59E-04	1.38E-06	1.25E-07	0.00E+00
Oklahoma	Sequoyah County	40135	R	3.20E-05	3.20E-05	5.53E-05	1.08E-04	1.23E-04	1.70E-04	2.74E-04	2.74E-04	7.05E-05	4.92E-05	3.02E-06	3.07E-07	0.00E+00
Oklahoma	Stephens County	40137	U	1.88E-05	4.34E-05	7.32E-05	2.73E-04	3.30E-04	4.71E-04	7.41E-04	8.50E-04	1.91E-08	3.26E-04	4.00E-06	3.24E-07	0.00E+00
Oklahoma	Texas County	40139	R	5.36E-07	5.36E-07	2.98E-06	3.85E-06	8.34E-06	1.72E-05	1.72E-05	1.72E-05	0.00E+00	5.92E-06	1.81E-06	6.12E-07	0.00E+00
Oklahoma	Tillman County	40141	R	4.49E-06	4.49E-06	5.83E-06	5.93E-06	7.07E-06	5.98E-06	1.31E-05	1.31E-05	5.33E-06	6.24E-07	6.24E-07	4.99E-07	0.00E+00
Oklahoma	Tulsa County	40143	U	9.63E-04	1.10E-03	1.33E-03	1.70E-03	3.52E-03	2.39E-03	4.01E-03	9.38E-03	1.74E-03	1.76E-03	2.00E-05	2.78E-06	0.00E+00
Oklahoma	Wagoner County	40145	U	6.00E-04	6.20E-04	9.40E-04	1.10E-03	1.11E-03	1.30E-03	1.53E-03	1.62E-03	5.18E-04	5.83E-04	6.60E-06	4.76E-07	0.00E+00
Oklahoma	Washington County	40147	U	1.16E-04	1.61E-04	1.96E-04	2.88E-04	1.57E-03	8.45E-04	1.04E-03	1.50E-02	4.22E-05	1.53E-03	5.27E-06	5.78E-07	0.00E+00
Oklahoma	Washita County	40149	R	4.16E-07	4.16E-07	4.58E-07	5.87E-07	6.51E-07	8.43E-07	1.01E-06	1.01E-06	0.00E+00	1.84E-07	3.38E-07	1.29E-07	0.00E+00
Oklahoma	Woods County	40151	U	1.40E-06	1.40E-06	1.40E-06	3.06E-06	5.52E-06	1.21E-05	1.21E-05	1.21E-05	0.00E+00	5.00E-06	2.93E-07	2.19E-07	0.00E+00
Oklahoma	Woodward County	40153	U	2.01E-06	2.01E-06	2.19E-06	5.96E-06	4.99E-06	7.33E-06	7.46E-06	7.46E-06	0.00E+00	3.24E-06	1.39E-06	3.52E-07	0.00E+00
Oregon	Statewide	N/A	N/A	2.84E-05	1.13E-04	3.75E-04	1.17E-03	3.93E-03	3.94E-03	9.26E-03	1.60E-02	1.74E-03	2.17E-03	1.30E-05	8.26E-06	0.00E+00
Oregon	All Urban Counties	N/A	U	1.38E-04	2.31E-04	7.07E-04	1.70E-03	4.84E-03	5.38E-03	1.14E-02	1.88E-02	2.17E-03	2.65E-03	1.57E-05	1.03E-05	0.00E+00
Oregon	All Rural Counties	N/A	R	2.76E-06	6.17E-06	6.59E-05	2.46E-04	4.64E-04	6.49E-04	1.29E-03	1.74E-03	1.11E-04	3.50E-04	2.50E-06	4.13E-07	0.00E+00
Oregon	Baker County	41001	U	6.62E-07	6.62E-07	8.82E-06	1.49E-05	2.21E-05	3.13E-05	6.19E-05	6.19E-05	0.00E+00	1.86E-05	3.33E-06	1.92E-07	0.00E+00
Oregon	Benton County	41003	U	1.58E-04	1.86E-04	2.09E-04	2.30E-04	2.34E-04	2.48E-04	2.91E-04	3.60E-04	7.64E-05	1.49E-04	7.62E-06	9.81E-07	0.00E+00
Oregon	Clackamas County	41005	U	6.22E-04	1.30E-03	2.60E-03	4.59E-03	4.48E-03	6.36E-03	7.41E-03	8.20E-03	2.48E-03	1.97E-03	1.68E-05	6.88E-06	0.00E+00
Oregon	Clatsop County	41007	U	1.61E-04	4.11E-04	4.21E-04	7.16E-04	6.90E-04	9.16E-04	9.47E-04	1.14E-03	1.06E-04	5.82E-04	8.02E-07	5.29E-07	0.00E+00
Oregon	Columbia County	41009	U	2.44E-04	4.44E-04	1.19E-03	1.91E-03	1.91E-03	2.33E-03	3.40E-03	3.46E-03	1.16E-03	7.42E-04	5.14E-06	5.20E-06	0.00E+00
Oregon	Coos County	41011	U	7.03E-05	9.41E-05	1.84E-04	2.97E-04	3.86E-04	5.35E-04	8.48E-04	9.30E-04	6.18E-05	3.18E-04	3.55E-06	2.92E-06	0.00E+00
Oregon	Crook County	41013	R	2.20E-04	2.20E-04	2.59E-04	3.34E-04	3.84E-04	5.08E-04	6.46E-04	6.46E-04	1.99E-06	3.81E-04	7.57E-07	8.15E-08	0.00E+00
Oregon	Curry County	41015	R	6.17E-06	6.17E-06	4.33E-05	2.03E-04	2.63E-04	4.29E-04	6.33E-04	6.33E-04	1.60E-04	1.01E-04	7.28E-07	6.32E-07	0.00E+00
Oregon	Deschutes County	41017	R	1.72E-05	3.90E-05	1.54E-04	3.09E-04	4.58E-04	4.47E-04	1.03E-03	1.36E-03	4.85E-05	4.05E-04	3.89E-06	5.26E-07	0.00E+00
Oregon	Douglas County	41019	R	1.80E-04	2.72E-04	4.16E-04	8.28E-04	8.98E-04	1.25E-03	1.48E-03	1.74E-03	4.44E-04	4.50E-04	3.88E-06	3.27E-07	0.00E+00
Oregon	Gilliam County	41021	R	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	4.52E-06	2.83E-05	4.22E-07	9.22E-08	0.00E+00
Oregon	Grant County	41023	R	1.31E-04	1.31E-04	1.31E-04	1.44E-04	1.44E-04	1.57E-04	1.57E-04	1.57E-04	0.00E+00	1.44E-04	1.15E-07	3.05E-08	0.00E+00
Oregon	Harney County	41025	R	5.83E-05	5.83E-05	5.83E-05	6.54E-05	6.54E-05	7.25E-05	7.25E-05	7.25E-05	0.00E+00	6.53E-05	4.86E-08	4.38E-08	0.00E+00
Oregon	Hood River County	41027	R	7.78E-05	7.78E-05	1.54E-04	2.43E-04	3.09E-04	4.63E-04	6.72E-04	6.72E-04	0.00E+00	3.06E-04	2.25E-06	5.88E-07	0.00E+00
Oregon	Jackson County	41029	U	2.79E-04	4.39E-04	6.97E-04	1.41E-03	2.09E-03	3.24E-03	4.55E-03	4.95E-03	2.83E-04	1.80E-03	8.08E-06	1.19E-06	0.00E+00
Oregon	Jefferson County	41031	R	1.04E-06	1.04E-06	7.94E-06	1.76E-05	1.44E-05	2.09E-05	2.16E-05	2.16E-05	0.00E+00	1.34E-05	8.62E-07	2.19E-07	0.00E+00
Oregon	Josephine County	41033	R	1.38E-04	1.59E-04	1.88E-04	2.58E-04	2.68E-04	3.01E-04	3.43E-04	6.41E-04	2.93E-05	2.34E-04	3.57E-06	3.90E-07	

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

State	County	FIPS	Urban or Rural	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
Pennsylvania	Allegheny County	42003	U	1.02E-03	1.18E-03	1.47E-03	1.78E-03	2.81E-03	2.26E-03	2.79E-03	4.15E-03	2.46E-04	2.52E-03	2.25E-05	1.58E-05	0.00E+00
Pennsylvania	Armstrong County	42005	R	3.68E-04	5.87E-04	1.05E-03	1.24E-03	1.67E-03	1.97E-03	3.03E-03	5.81E-03	3.28E-04	1.34E-03	4.98E-06	1.26E-06	0.00E+00
Pennsylvania	Beaver County	42007	U	2.52E-03	2.93E-03	3.22E-03	3.85E-03	7.72E-03	5.06E-03	7.35E-03	2.79E-02	7.81E-04	6.92E-03	8.44E-06	6.28E-06	0.00E+00
Pennsylvania	Bedford County	42009	R	3.26E-05	3.74E-05	4.34E-05	1.02E-04	9.70E-05	1.31E-04	1.85E-04	2.05E-04	1.43E-05	7.99E-05	2.56E-06	2.79E-07	0.00E+00
Pennsylvania	Berks County	42011	U	1.36E-03	2.16E-03	4.05E-03	5.39E-03	8.34E-03	1.00E-02	1.77E-02	2.42E-02	6.90E-03	1.43E-03	1.22E-05	1.38E-06	0.00E+00
Pennsylvania	Blair County	42013	R	1.54E-04	1.60E-04	1.81E-04	2.09E-04	3.16E-04	2.77E-04	4.87E-04	1.10E-03	1.87E-04	1.22E-04	6.34E-06	7.12E-07	0.00E+00
Pennsylvania	Bradford County	42015	R	4.98E-05	5.30E-05	9.00E-05	1.29E-04	2.13E-04	2.04E-04	3.47E-04	1.04E-03	1.66E-04	4.48E-05	1.94E-06	3.03E-07	0.00E+00
Pennsylvania	Bucks County	42017	U	4.88E-04	5.19E-04	5.96E-04	7.49E-04	1.02E-03	1.25E-03	1.75E-03	2.08E-03	3.88E-04	6.11E-04	1.71E-05	4.71E-06	0.00E+00
Pennsylvania	Butler County	42019	U	1.10E-03	1.26E-03	2.01E-03	2.68E-03	4.61E-03	7.12E-03	9.04E-03	1.32E-02	1.94E-03	2.66E-03	7.54E-06	2.02E-06	0.00E+00
Pennsylvania	Cambria County	42021	R	2.82E-04	3.43E-04	5.13E-04	1.10E-03	1.87E-03	1.81E-03	3.38E-03	7.01E-03	1.57E-04	1.71E-03	6.75E-06	6.72E-07	0.00E+00
Pennsylvania	Cameron County	42023	R	1.48E-04	1.48E-04	1.48E-04	1.53E-04	1.53E-04	1.57E-04	1.57E-04	1.57E-04	1.32E-04	1.98E-05	1.75E-07	3.45E-07	0.00E+00
Pennsylvania	Carbon County	42025	U	1.39E-04	1.49E-04	2.29E-04	3.43E-04	5.42E-04	5.91E-04	1.42E-03	2.06E-03	5.29E-05	4.84E-04	4.92E-06	3.90E-07	0.00E+00
Pennsylvania	Centre County	42027	R	2.79E-05	3.07E-05	5.66E-05	7.97E-05	1.02E-04	1.19E-04	2.42E-04	2.73E-04	3.40E-05	5.56E-05	1.14E-05	9.76E-07	0.00E+00
Pennsylvania	Chester County	42029	U	8.51E-04	9.04E-04	3.13E-03	3.77E-03	5.23E-03	5.81E-03	9.30E-03	1.48E-02	3.40E-03	1.82E-03	9.45E-06	2.69E-06	0.00E+00
Pennsylvania	Clarion County	42031	R	2.19E-04	2.19E-04	3.72E-04	4.38E-04	5.41E-04	6.90E-04	1.05E-03	1.05E-03	3.88E-04	1.51E-04	2.06E-06	3.32E-07	0.00E+00
Pennsylvania	Clearfield County	42033	R	8.13E-05	1.58E-04	1.89E-04	2.31E-04	3.90E-04	5.32E-04	1.23E-03	1.46E-03	1.06E-04	2.81E-04	2.75E-06	4.30E-07	0.00E+00
Pennsylvania	Clinton County	42035	R	1.13E-06	1.13E-06	5.13E-05	6.89E-05	1.10E-04	1.46E-04	4.03E-04	4.03E-04	4.42E-05	6.34E-05	1.82E-06	2.59E-07	0.00E+00
Pennsylvania	Columbia County	42037	U	3.50E-04	3.68E-04	5.60E-04	1.02E-03	9.22E-04	1.26E-03	1.29E-03	1.31E-03	4.64E-04	4.50E-04	7.24E-06	5.49E-07	0.00E+00
Pennsylvania	Crawford County	42039	R	1.18E-04	1.45E-04	2.19E-04	2.80E-04	3.83E-04	3.90E-04	5.79E-04	1.23E-03	1.96E-04	1.84E-04	1.82E-06	2.87E-07	0.00E+00
Pennsylvania	Cumberland County	42041	U	2.07E-04	3.39E-04	5.11E-04	6.43E-04	1.33E-03	7.63E-04	1.45E-03	2.86E-03	8.95E-05	1.22E-03	1.60E-05	1.35E-06	0.00E+00
Pennsylvania	Dauphin County	42043	U	3.21E-04	4.77E-04	7.24E-04	8.52E-04	9.56E-04	1.10E-03	1.61E-03	2.00E-03	2.37E-04	6.95E-04	2.16E-05	2.51E-06	0.00E+00
Pennsylvania	Delaware County	42045	U	9.92E-04	1.03E-03	1.16E-03	1.42E-03	1.49E-03	1.74E-03	2.02E-03	2.28E-03	5.45E-04	9.01E-04	2.24E-05	1.85E-05	0.00E+00
Pennsylvania	Elk County	42047	U	1.16E-04	1.16E-04	1.63E-04	4.32E-04	4.63E-04	5.27E-04	1.19E-03	1.19E-03	4.23E-04	3.89E-05	1.25E-06	1.52E-07	0.00E+00
Pennsylvania	Erie County	42049	U	4.47E-04	5.42E-04	1.09E-03	3.36E-03	1.57E-02	7.46E-03	1.89E-02	3.22E-02	1.32E-02	2.51E-03	6.42E-06	2.46E-06	0.00E+00
Pennsylvania	Fayette County	42051	U	1.29E-04	1.53E-04	1.74E-04	2.12E-04	2.33E-04	2.75E-04	3.44E-04	4.49E-04	1.21E-04	1.05E-04	5.65E-06	1.75E-06	0.00E+00
Pennsylvania	Forest County	42053	R	8.88E-05	8.88E-05	8.88E-05	1.72E-04	1.72E-04	2.55E-04	2.55E-04	2.55E-04	1.18E-04	5.31E-05	5.04E-07	1.24E-07	0.00E+00
Pennsylvania	Franklin County	42055	R	2.14E-04	3.99E-04	4.54E-04	6.09E-04	7.90E-04	8.60E-04	1.45E-03	1.77E-03	6.08E-04	1.76E-04	5.28E-06	6.00E-07	0.00E+00
Pennsylvania	Fulton County	42057	R	1.72E-04	1.72E-04	1.72E-04	3.59E-04	5.20E-04	1.03E-03	1.03E-03	1.03E-03	3.14E-04	2.03E-04	3.54E-06	1.91E-07	0.00E+00
Pennsylvania	Greene County	42059	R	1.51E-04	1.51E-04	1.65E-04	1.93E-04	1.97E-04	2.16E-04	2.76E-04	2.76E-04	1.16E-04	7.60E-05	3.68E-06	1.13E-06	0.00E+00
Pennsylvania	Huntingdon County	42061	R	5.52E-05	1.52E-04	2.30E-04	3.33E-04	4.57E-04	6.94E-04	9.70E-04	1.09E-03	3.85E-05	4.16E-04	1.79E-06	3.25E-07	0.00E+00
Pennsylvania	Indiana County	42063	R	3.58E-04	3.62E-04	5.47E-04	7.36E-04	1.90E-03	1.00E-03	1.15E-03	3.55E-03	2.26E-04	1.66E-03	6.59E-06	8.79E-07	0.00E+00
Pennsylvania	Jefferson County	42065	R	1.79E-04	1.98E-04	2.64E-04	6.68E-04	5.35E-03	3.63E-03	1.72E-02	3.92E-02	1.41E-03	3.94E-03	3.00E-06	4.37E-07	0.00E+00
Pennsylvania	Juniata County	42067	R	4.40E-04	4.40E-04	8.20E-04	1.36E-03	1.27E-03	1.72E-03	1.92E-03	1.92E-03	4.51E-05	1.22E-03	2.27E-06	3.69E-07	0.00E+00
Pennsylvania	Lackawanna County	42069	U	3.57E-05	4.22E-05	6.65E-05	9.02E-05	9.41E-05	1.16E-04	1.53E-04	1.73E-04	2.72E-06	7.54E-05	1.49E-05	1.11E-06	0.00E+00
Pennsylvania	Lancaster County	42071	U	2.74E-03	3.11E-03	4.83E-03	6.47E-03	1.30E-02	8.40E-03	1.56E-02	2.77E-02	1.06E-02	2.36E-03	1.07E-05	2.01E-06	0.00E+00
Pennsylvania	Lawrence County	42073	R	2.27E-03	2.93E-03	3.36E-03	3.71E-03	8.67E-03	4.27E-03	2.71E-02	3.70E-02	8.51E-04	7.81E-03	6.85E-06	9.42E-07	0.00E+00
Pennsylvania	Lebanon County	42075	U	1.64E-03	2.30E-03	3.78E-03	4.28E-03	5.20E-03	5.17E-03	6.70E-03	1.25E-02	2.63E-03	2.56E-03	1.16E-05	1.33E-06	0.00E+00
Pennsylvania	Lehigh County	42077	U	5.97E-04	6.55E-04	7.20E-04	8.08E-04	8.08E-04	8.71E-04	9.62E-04	1.05E-03	3.11E-04	4.82E-04	1.27E-05	1.84E-06	0.00E+00
Pennsylvania	Luzerne County	42079	U	1.01E-04	1.11E-04	1.38E-04	1.64E-04	2.77E-04	2.04E-04	5.51E-04	8.62E-04	1.09E-05	2.53E-04	1.21E-05	9.49E-07	0.00E+00
Pennsylvania	Lycoming County	42081	R	2.56E-05	1.00E-04	1.26E-04	1.97E-04	3.35E-04	2.87E-04	3.88E-04	9.03E-04	8.88E-06	3.19E-04	6.35E-06	6.79E-07	0.00E+00
Pennsylvania	McKean County	42083	R	5.57E-05	7.95E-05	1.27E-04	1.87E-04	1.60E-04	1.95E-04	1.97E-04	2.09E-04	6.96E-05	8.78E-05	2.01E-06	2.42E-07	0.00E+00
Pennsylvania	Mercer County	42085	R	5.76E-04	1.29E-03	2.39E-03	4.28E-03	4.90E-03	6.36E-03	7.02E-03	7.69E-03	6.65E-04	4.23E-03	4.70E-06	6.72E-07	0.00E+00
Pennsylvania	Mifflin County	42087	R	1.26E-05	3.63E-05	5.01E-04	5.91E-03	2.16E-02	1.70E-02	2.98E-02	1.72E-01	1.73E-05	2.16E-02	3.88E-06	7.65E-07	0.00E+00
Pennsylvania	Monroe County	42089	R	6.84E-05	7.54E-05	1.08E-04	2.28E-04	4.82E-04	8.76E-04	1.21E-03	1.40E-03	4.70E-05	4.30E-04	4.72E-06	5.38E-07	0.00E+00
Pennsylvania	Montgomery County	42091	U	5.22E-04	5.57E-04	6.59E-04	1.28E-04	1.17E-03	1.07E-03	2.96E-03	3.52E-03	5.79E-04	5.64E-04	1.73E-05	5.16E-06	0.00E+00
Pennsylvania	Montour County	42093	R	9.91E-04	9.91E-04	1.36E-03	1.76E-03	1.58E-03	1.81E-03	1.81E-03	1.81E-03	9.84E-04	5.90E-04	6.13E-06	5.69E-07	0.00E+00
Pennsylvania	Northampton County	42095	U	4.75E-04	5.02E-04	5.78E-04	6.81E-04	1.03E-03	1.11E-03	1.84E-03	2.33E-03	4.56E-04	5.65E-04	1.09E-05	1.23E-06	0.00E+00
Pennsylvania	Northumberland County	42097	R	8.20E-04	8.74E-04	1.07E-03	1.18E-03	5.49E-03	1.82E-03	2.53E-03	7.46E-03	4.83E-03	6.49E-04	7.28E-06	5.30E-07	0.00E+00
Pennsylvania	Perry County	42099	U	2.81E-04	2.81E-04	3.21E-04	4.04E-04	4.95E-04	7.00E-04	8.97E-04	8.97E-04	4.13E-05	4.49E-04	4.85E-06	5.04E-07	0.00E+00
Pennsylvania	Philadelphia County	42101	U	1.04E-03	1.16E-03	1.48E-03	1.99E-03	2.63E-03	2.93E-03	4.67E-03	5.78E-03	1.72E-03	8.29E-04	4.64E-05	3.09E-05	0.00E+00
Pennsylvania	Pike County	42103	U	9.37E-06	9.37E-06	2.11E-05	3.41E-05	4.25E-05	5.74E-05	1.06E-04	1.06E-04	3.45E-06	3.62E-05	2.66E-06	2.12E-07	0.00E+00
Pennsylvania	Potter County	42105	R	5.42E-06	5.42E-06	1.25E-05	1.52E-05	1.51E-05	1.57E-05	2.67E-05	2.67E-05	7.97E-06	6.71E-06	3.80E-07	6.74E-08	0.00E+00
Pennsylvania	Schuylkill County	42107	R	2.54E-04	2.81E-04	3.58E-04	4.49E-04	6.42E-04	6.43E-04	1.03E-03	1.89E-03	1.35E-04	5.00E-04	6.77E-06	5.18E-07	0.00E+00
Pennsylvania	Snyder County	42109	R	3.99E-04	3.99E-04	5.11E-04	6.03E-04	8.23E-04	1.21E-03	1.59E-03	1.59E-03	5.41E-04	2.77E-04	3.67E-06	4.73E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
Pennsylvania	Somerset County	42111	R	3.63E-05	4.04E-05	5.75E-05	1.90E-04	4.55E-04	4.59E-04	6.83E-04	2.56E-03	3.38E-05	4.18E-04	3.27E-06	3.73E-07	0.00E+00
Pennsylvania	Sullivan County	42113	R	8.90E-05	8.90E-05	8.90E-05	1.00E-04	1.00E-04	1.11E-04	1.11E-04	1.11E-04	6.49E-05	3.45E-05	4.69E-07	1.51E-07	0.00E+00
Pennsylvania	Susquehanna County	42115	R	2.57E-05	3.22E-05	4.37E-05	7.58E-05	1.02E-04	1.61E-04	1.79E-04	2.29E-04	5.79E-05	4.16E-05	1.84E-06	2.14E-07	0.00E+00
Pennsylvania	Tioga County	42117	R	4.43E-06	6.11E-06	8.08E-06	2.01E-05	2.15E-05	2.81E-05	4.24E-05	5.29E-05	7.34E-06	1.29E-05	1.07E-06	1.58E-07	0.00E+00
Pennsylvania	Union County	42119	R	2.26E-04	2.26E-04	8.85E-04	1.16E-03	1.30E-03	1.86E-03	2.41E-03	2.41E-03	9.07E-04	3.88E-04	3.76E-06	4.59E-07	0.00E+00
Pennsylvania	Venango County	42121	R	6.35E-04	6.66E-04	8.60E-04	1.50E-03	3.14E-03	3.60E-03	1.08E-02	1.31E-02	2.70E-03	4.31E-04	2.29E-06	3.46E-07	0.00E+00
Pennsylvania	Warren County	42123	R	5.31E-05	7.17E-05	1.29E-04	1.55E-04	1.64E-03	3.63E-04	1.16E-03	1.75E-02	1.26E-04	1.51E-03	1.60E-06	1.94E-07	0.00E+00
Pennsylvania	Washington County	42125	U	3.36E-04	3.75E-04	5.23E-04	1.47E-03	1.69E-03	2.19E-03	3.11E-03	5.46E-03	1.74E-04	1.50E-03	9.51E-06	3.55E-06	0.00E+00
Pennsylvania	Wayne County	42127	R	1.27E-05	1.51E-05	1.74E-05	1.85E-05	2.02E-05	2.33E-05	2.77E-05	3.05E-05	4.24E-07	1.74E-05	2.01E-06	3.39E-07	0.00E+00
Pennsylvania	Westmoreland County	42129	U	3.40E-04	4.65E-04	6.04E-04	8.08E-04	1.58E-03	1.59E-03	3.66E-03	6.60E-03	1.31E-04	1.43E-03	1.17E-05	5.68E-06	0.00E+00
Pennsylvania	Wyoming County	42131	U	4.15E-05	4.15E-05	4.28E-05	7.57E-05	7.40E-05	8.64E-05	1.19E-04	1.19E-04	2.30E-05	4.76E-05	3.00E-06	3.17E-07	0.00E+00
Pennsylvania	York County	42133	U	8.70E-04	9.64E-04	1.38E-03	2.88E-03	5.05E-03	6.46E-03	1.02E-02	1.34E-02	1.10E-03	3.93E-03	1.47E-05	1.83E-06	0.00E+00
Rhode Island	Statewide	N/A	N/A	4.69E-05	6.23E-05	1.06E-04	1.53E-04	1.78E-04	2.21E-04	3.13E-04	3.65E-04	1.08E-05	1.45E-04	1.75E-05	4.17E-06	0.00E+00
Rhode Island	All Urban Counties	N/A	U	4.69E-05	6.23E-05	1.06E-04	1.53E-04	1.78E-04	2.21E-04	3.13E-04	3.65E-04	1.08E-05	1.45E-04	1.75E-05	4.17E-06	0.00E+00
Rhode Island	Bristol County	44001	U	9.34E-05	1.05E-04	1.09E-04	1.23E-04	1.31E-04	1.40E-04	1.60E-04	2.20E-04	1.72E-05	9.95E-05	1.23E-05	2.27E-06	0.00E+00
Rhode Island	Kent County	44003	U	5.00E-05	6.64E-05	1.01E-04	1.30E-04	1.31E-04	1.53E-04	1.92E-04	2.20E-04	8.16E-06	1.06E-04	1.42E-05	2.18E-06	0.00E+00
Rhode Island	Newport County	44005	U	6.48E-05	7.52E-05	9.05E-05	1.06E-04	1.13E-04	1.15E-04	2.02E-04	2.09E-04	3.15E-05	7.29E-05	7.39E-06	1.35E-06	0.00E+00
Rhode Island	Providence County	44007	U	6.69E-05	9.66E-05	1.51E-04	2.04E-04	2.23E-04	2.55E-04	3.57E-04	4.19E-04	8.34E-06	1.87E-04	2.23E-05	5.93E-06	0.00E+00
Rhode Island	Washington County	44009	U	3.42E-05	3.56E-05	4.56E-05	6.10E-05	7.75E-05	8.22E-05	1.35E-04	1.51E-04	7.17E-06	6.18E-05	7.74E-06	8.41E-07	0.00E+00
South Carolina	Statewide	N/A	N/A	4.75E-05	7.82E-05	1.94E-04	3.44E-04	1.25E-03	8.37E-04	1.74E-03	2.76E-03	8.00E-04	4.44E-04	7.79E-06	2.83E-06	0.00E+00
South Carolina	All Urban Counties	N/A	U	7.12E-05	1.09E-04	2.05E-04	3.19E-04	7.54E-04	7.05E-04	1.70E-03	2.34E-03	3.80E-04	3.59E-04	1.04E-05	4.35E-06	0.00E+00
South Carolina	All Rural Counties	N/A	R	2.17E-05	4.70E-05	1.46E-04	4.98E-04	2.00E-03	9.41E-04	2.12E-03	4.24E-03	1.42E-03	5.70E-04	3.88E-06	5.70E-07	0.00E+00
South Carolina	Abbeville County	45001	R	7.48E-06	7.48E-06	1.37E-05	1.57E-05	1.62E-05	1.79E-05	2.69E-05	2.69E-05	4.61E-06	9.40E-06	2.04E-06	1.95E-07	0.00E+00
South Carolina	Aiken County	45003	U	1.04E-04	2.92E-04	5.87E-04	8.96E-04	1.41E-03	1.81E-03	4.10E-03	4.55E-03	1.31E-03	9.58E-05	7.83E-06	6.44E-07	0.00E+00
South Carolina	Allendale County	45005	R	7.78E-05	7.78E-05	7.78E-05	9.75E-05	9.10E-05	9.77E-05	9.77E-05	9.77E-05	1.66E-05	7.35E-05	6.77E-07	2.09E-07	0.00E+00
South Carolina	Anderson County	45007	U	2.63E-05	4.56E-05	6.34E-05	1.03E-04	9.48E-05	1.22E-04	1.36E-04	1.46E-04	3.86E-05	4.88E-05	6.82E-06	6.03E-07	0.00E+00
South Carolina	Bamberg County	45009	R	3.17E-04	3.17E-04	3.33E-04	3.70E-04	4.04E-04	4.74E-04	5.66E-04	5.66E-04	2.84E-04	1.19E-04	8.76E-07	1.58E-07	0.00E+00
South Carolina	Barnwell County	45011	U	6.71E-05	6.71E-05	8.96E-05	1.67E-04	1.75E-04	2.61E-04	2.88E-04	2.88E-04	5.95E-05	1.14E-04	1.00E-06	2.05E-07	0.00E+00
South Carolina	Beaufort County	45013	R	9.63E-06	1.07E-05	1.89E-05	9.67E-04	7.49E-04	1.12E-03	1.35E-03	1.66E-03	7.11E-04	3.35E-05	2.84E-06	1.84E-06	0.00E+00
South Carolina	Berkeley County	45015	U	3.93E-04	4.70E-04	6.76E-04	9.50E-04	1.01E-03	1.26E-03	1.40E-03	2.07E-03	7.73E-04	2.13E-04	7.58E-06	1.27E-05	0.00E+00
South Carolina	Calhoun County	45017	R	4.98E-04	4.98E-04	4.98E-04	1.01E-03	9.59E-04	1.37E-03	1.37E-03	1.37E-03	7.48E-04	2.08E			

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State	County	FIPS	Urban or Rural	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
South Carolina	McCormick County	45065	R	5.30E-06	5.30E-06	5.30E-06	6.18E-06	1.17E-04	3.38E-04	3.38E-04	3.38E-04	1.06E-04	8.64E-06	1.44E-06	2.27E-07	0.00E+00
South Carolina	Marion County	45067	R	1.89E-04	1.89E-04	4.64E-04	6.08E-04	6.11E-04	8.08E-04	9.37E-04	9.37E-04	5.55E-04	5.34E-05	1.67E-06	2.12E-07	0.00E+00
South Carolina	Marlboro County	45069	R	3.91E-04	3.91E-04	5.26E-04	5.78E-04	7.71E-04	8.11E-04	1.74E-03	1.74E-03	3.71E-04	3.98E-04	1.76E-06	2.62E-07	0.00E+00
South Carolina	Newberry County	45071	R	7.74E-05	7.74E-05	2.09E-04	3.78E-04	4.16E-04	5.50E-04	1.04E-03	1.04E-03	4.52E-06	4.07E-04	3.69E-06	3.27E-07	0.00E+00
South Carolina	Oconee County	45073	R	3.69E-05	5.27E-05	6.53E-05	2.21E-04	1.90E-04	2.48E-04	2.64E-04	4.11E-04	3.62E-06	1.83E-04	3.42E-06	3.94E-07	0.00E+00
South Carolina	Orangeburg County	45075	R	2.38E-04	3.79E-04	8.41E-04	1.90E-03	1.74E-02	8.54E-03	4.42E-02	1.32E-01	1.69E-02	4.36E-04	4.69E-06	4.08E-07	0.00E+00
South Carolina	Pickens County	45077	U	4.03E-05	5.20E-05	7.68E-05	1.10E-04	1.16E-04	1.37E-04	2.18E-04	2.50E-04	2.68E-05	8.26E-05	6.12E-06	6.31E-07	0.00E+00
South Carolina	Richland County	45079	U	2.05E-04	2.48E-04	2.82E-04	3.27E-04	3.49E-04	3.69E-04	4.71E-04	7.15E-04	1.47E-04	1.85E-04	1.50E-05	1.67E-06	0.00E+00
South Carolina	Saluda County	45081	R	1.33E-04	1.33E-04	1.36E-04	1.62E-04	1.75E-04	2.15E-04	2.44E-04	2.44E-04	6.98E-06	1.66E-04	1.69E-06	1.75E-07	0.00E+00
South Carolina	Spartanburg County	45083	U	6.80E-05	1.11E-04	2.27E-04	2.72E-04	2.79E-04	3.43E-04	4.40E-04	5.40E-04	3.72E-05	2.30E-04	1.07E-05	1.04E-06	0.00E+00
South Carolina	Sumter County	45085	R	5.12E-04	5.24E-04	6.54E-04	1.00E-03	4.51E-03	1.86E-03	3.24E-03	4.40E-03	4.97E-04	4.01E-03	7.69E-06	5.94E-07	0.00E+00
South Carolina	Union County	45087	R	5.91E-05	5.91E-05	9.60E-05	3.50E-04	3.64E-04	5.76E-04	9.58E-04	9.58E-04	4.24E-06	3.56E-04	3.78E-06	3.22E-07	0.00E+00
South Carolina	Williamsburg County	45089	R	1.45E-04	1.71E-04	2.32E-04	3.16E-04	3.71E-04	5.30E-04	6.29E-04	7.09E-04	3.38E-04	3.14E-05	1.25E-06	2.31E-07	0.00E+00
South Carolina	York County	45091	U	3.08E-04	4.71E-04	7.42E-04	1.24E-03	1.30E-03	1.70E-03	2.22E-03	2.61E-03	9.61E-04	3.27E-04	8.69E-06	1.30E-06	0.00E+00
South Dakota	Statewide	N/A	N/A	1.62E-07	2.13E-07	5.80E-07	1.15E-05	1.31E-04	4.52E-05	1.76E-04	7.23E-04	6.42E-05	6.44E-05	1.89E-06	4.58E-07	0.00E+00
South Dakota	All Urban Counties	N/A	U	1.09E-06	2.86E-06	1.48E-05	3.20E-05	1.92E-04	8.21E-05	2.34E-04	8.97E-04	6.03E-05	1.27E-04	3.82E-06	8.02E-07	0.00E+00
South Dakota	All Rural Counties	N/A	R	1.43E-07	1.66E-07	2.88E-07	8.75E-07	8.14E-05	9.71E-06	5.19E-05	1.92E-04	6.72E-05	1.36E-05	3.41E-07	1.81E-07	0.00E+00
South Dakota	Aurora County	46003	R	4.71E-06	4.71E-06	4.71E-06	4.71E-06	4.71E-06	4.71E-06	4.71E-06	4.71E-06	3.85E-06	3.92E-07	2.52E-07	2.16E-07	0.00E+00
South Dakota	Beadle County	46005	U	4.62E-05	4.62E-05	9.23E-05	4.70E-04	1.09E-03	1.05E-03	4.42E-03	4.42E-03	0.00E+00	1.09E-03	1.20E-06	5.12E-07	0.00E+00
South Dakota	Bennett County	46007	R	1.57E-07	1.57E-07	1.73E-07	2.95E-07	4.75E-07	4.06E-07	1.89E-06	1.89E-06	0.00E+00	2.34E-07	1.77E-07	6.44E-08	0.00E+00
South Dakota	Bon Homme County	46009	R	9.71E-06	9.71E-06	9.71E-06	1.26E-05	1.26E-05	1.54E-05	1.54E-05	1.54E-05	4.76E-06	7.28E-06	2.82E-07	2.55E-07	0.00E+00
South Dakota	Brookings County	46011	U	1.62E-06	1.62E-06	1.81E-06	7.58E-06	8.44E-06	1.51E-05	1.61E-05	1.61E-05	8.79E-11	5.89E-06	2.01E-06	5.34E-07	0.00E+00
South Dakota	Brown County	46013	U	8.88E-07	8.88E-07	1.44E-06	1.17E-05	1.45E-05	1.48E-05	4.52E-05	4.52E-05	0.00E+00	1.10E-05	2.72E-06	7.62E-07	0.00E+00
South Dakota	Brule County	46015	R	5.80E-07	5.80E-07	5.80E-07	1.53E-06	1.53E-06	2.47E-06	2.47E-06	2.47E-06	0.00E+00	7.84E-07	5.34E-07	2.08E-07	0.00E+00
South Dakota	Buffalo County	46017	R	2.77E-07	2.77E-07	2.77E-07	3.81E-07	3.81E-07	4.86E-07	4.86E-07	4.86E-07	0.00E+00	1.64E-07	9.54E-08	1.22E-07	0.00E+00
South Dakota	Butte County	46019	U	6.12E-06	6.12E-06	6.12E-06	8.04E-06	8.04E-06	9.96E-06	9.96E-06	9.96E-06	1.93E-06	5.85E-06	2.06E-07	5.45E-08	0.00E+00
South Dakota	Campbell County	46021	R	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	0.00E+00	1.13E-07	3.27E-08	1.04E-07	0.00E+00
South Dakota	Charles Mix County	46023	R	7.20E-07	7.20E-07	7.20E-07	1.72E-06	1.60E-06	2.36E-06	2.36E-06	2.36E-06	0.00E+00	1.18E-06	1.96E-07	2.29E-07	0.00E+00
South Dakota	Clark County	46025	R	5.40E-06	5.40E-06	5.40E-06	9.42E-06	9.42E-06	1.34E-05	1.34E-05	1.34E-05	0.00E+00	9.08E-06	1.21E-07	2.26E-07	0.00E+00
South Dakota	Clay County	46027	U	6.99E-05	6.99E-05	6.99E-05	1.08E-04	9.84E-05	1.17E-04	1.17E-04	1.17E-04	2.44E-05	7.17E-05	1.87E-06	3.98E-07	0.00E+00
South Dakota	Codington County	46029	U	4.82E-05	4.82E-05	6.56E-05	1.48E-04	4.69E-04	2.33E-04	2.17E-03	2.17E-03	0.0				

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
South Dakota	Kingsbury County	46077	R	9.08E-07	9.08E-07	9.08E-07	1.45E-05	1.45E-05	2.80E-05	2.80E-05	2.80E-05	0.00E+00	1.41E-05	1.67E-07	2.36E-07	0.00E+00
South Dakota	Lake County	46079	U	1.24E-04	1.24E-04	1.24E-04	1.76E-04	1.62E-04	1.87E-04	1.87E-04	1.87E-04	1.59E-04	2.55E-06	7.60E-07	3.88E-07	0.00E+00
South Dakota	Lawrence County	46081	U	1.07E-05	1.07E-05	1.33E-05	3.34E-05	3.85E-05	3.74E-05	9.75E-05	9.75E-05	7.37E-07	3.66E-05	1.05E-06	1.07E-07	0.00E+00
South Dakota	Lincoln County	46083	R	3.16E-06	3.16E-06	3.58E-06	4.03E-06	4.70E-06	5.82E-06	7.56E-06	7.56E-06	0.00E+00	3.03E-06	1.25E-06	4.15E-07	0.00E+00
South Dakota	Lyman County	46085	R	4.26E-07	4.26E-07	4.26E-07	5.20E-07	5.20E-07	6.14E-07	6.14E-07	6.14E-07	0.00E+00	1.55E-07	2.51E-07	1.14E-07	0.00E+00
South Dakota	McCook County	46087	R	7.23E-04	7.23E-04	7.23E-04	2.15E-03	2.15E-03	3.57E-03	3.57E-03	3.57E-03	2.15E-03	6.08E-07	4.50E-07	2.99E-07	0.00E+00
South Dakota	McPherson County	46089	R	3.22E-07	3.22E-07	3.22E-07	3.22E-07	3.22E-07	3.22E-07	3.22E-07	3.22E-07	0.00E+00	1.36E-07	4.45E-08	1.41E-07	0.00E+00
South Dakota	Marshall County	46091	R	1.64E-03	1.64E-03	1.64E-03	1.71E-03	1.71E-03	1.78E-03	1.78E-03	1.78E-03	1.71E-03	4.60E-07	1.30E-07	2.24E-07	0.00E+00
South Dakota	Meade County	46093	R	1.51E-07	1.51E-07	1.36E-05	3.08E-05	5.09E-05	1.02E-04	1.28E-04	1.28E-04	8.65E-07	4.87E-05	1.19E-06	1.81E-07	0.00E+00
South Dakota	Mellette County	46095	R	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	0.00E+00	1.12E-07	5.81E-08	4.91E-08	0.00E+00
South Dakota	Miner County	46097	R	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.29E-04	3.97E-07	1.52E-07	2.07E-07	0.00E+00
South Dakota	Minnehaha County	46099	U	1.41E-05	1.47E-05	2.73E-05	3.23E-05	5.22E-05	7.04E-05	9.55E-05	1.05E-04	1.14E-05	3.13E-05	7.77E-06	1.67E-06	0.00E+00
South Dakota	Moody County	46101	R	2.72E-06	2.72E-06	2.72E-06	2.79E-06	2.79E-06	2.87E-06	2.87E-06	2.87E-06	1.43E-09	1.55E-06	8.09E-07	4.30E-07	0.00E+00
South Dakota	Pennington County	46103	U	1.85E-05	1.98E-05	2.07E-05	2.65E-05	3.71E-05	4.46E-05	6.82E-05	9.51E-05	9.67E-07	3.12E-05	4.44E-06	4.88E-07	0.00E+00
South Dakota	Perkins County	46105	R	1.69E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	0.00E+00	7.42E-08	3.10E-08	6.37E-08	0.00E+00
South Dakota	Potter County	46107	R	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	0.00E+00	1.34E-07	5.45E-08	1.69E-07	0.00E+00
South Dakota	Roberts County	46109	R	9.44E-07	9.44E-07	1.39E-06	9.12E-06	1.31E-05	2.63E-05	3.16E-05	3.16E-05	6.41E-06	5.91E-06	4.91E-07	2.63E-07	0.00E+00
South Dakota	Sanborn County	46111	R	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	2.24E-05	2.69E-05	1.58E-07	1.73E-07	0.00E+00
South Dakota	Shannon County	46113	R	1.67E-07	1.67E-07	2.21E-07	3.39E-07	3.90E-07	4.02E-07	8.68E-07	8.68E-07	0.00E+00	2.14E-07	1.41E-07	3.46E-08	0.00E+00
South Dakota	Spink County	46115	R	4.54E-07	4.54E-07	4.54E-07	6.29E-07	9.62E-07	1.80E-06	1.80E-06	1.80E-06	0.00E+00	4.35E-07	2.64E-07	2.63E-07	0.00E+00
South Dakota	Stanley County	46117	R	3.06E-07	3.06E-07	3.06E-07	4.30E-07	4.30E-07	5.55E-07	5.55E-07	5.55E-07	0.00E+00	2.43E-07	8.58E-08	1.02E-07	0.00E+00
South Dakota	Sully County	46119	R	3.47E-07	3.47E-07	3.47E-07	3.47E-07	3.47E-07	3.47E-07	3.47E-07	3.47E-07	0.00E+00	1.10E-07	3.54E-08	2.01E-07	0.00E+00
South Dakota	Todd County	46121	R	6.04E-07	6.04E-07	6.04E-07	6.26E-07	6.26E-07	6.48E-07	6.48E-07	6.48E-07	0.00E+00	3.51E-07	1.80E-07	9.47E-08	0.00E+00
South Dakota	Tripp County	46123	R	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	1.97E-06	0.00E+00	1.36E-06	4.02E-07	2.04E-07	0.00E+00
South Dakota	Turner County	46125	R	3.15E-05	3.15E-05	3.15E-05	5.58E-05	5.58E-05	8.01E-05	8.01E-05	8.01E-05	4.98E-05	5.31E-06	3.81E-07	3.43E-07	0.00E+00
South Dakota	Union County	46127	R	9.45E-06	9.45E-06	9.45E-06	5.90E-04	4.61E-04	7.84E-04	7.84E-04	7.84E-04	1.01E-04	3.58E-04	1.35E-06	3.86E-07	0.00E+00
South Dakota	Walworth County	46129	U	4.01E-07	4.01E-07	4.01E-07	1.08E-06	1.08E-06	1.75E-06	1.75E-06	1.75E-06	0.00E+00	7.39E-07	1.56E-07	1.81E-07	0.00E+00
South Dakota	Yankton County	46135	U	2.21E-04	2.21E-04	5.59E-04	1.69E-03	1.56E-03	2.55E-03	2.63E-03	2.63E-03	1.08E-03	4.74E-04	2.07E-06	6.05E-07	0.00E+00
South Dakota	Ziebach County	46137	R	8.08E-08	8.08E-08	1.13E-07	1.48E-07	7.35E-07	2.04E-07	3.13E-06	3.13E-06	0.00E+00	2.68E-07	3.72E-07	9.58E-08	0.00E+00
Tennessee	Statewide	N/A	N/A	3.40E-05	7.45E-05	2.12E-04	4.67E-04	1.44E-03	1.09E-03	2.41E-03	4.29E-03	7.93E-04	6.30E-04	1.32E-05	4.06E-06	0.00E+00
Tennessee	All Urban Counties	N/A	U	8.11E-05	1.42E-04	2.52E-04	5.24E-04	1.45E-03	1.17E-03	2.46E-03	4.67E-03	7.66E-04	6.63E-04</			

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

State	County	FIPS	Urban or Rural	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
Tennessee	Dyer County	47045	U	2.55E-04	2.55E-04	4.52E-04	5.12E-04	5.10E-04	5.44E-04	8.10E-04	8.10E-04	9.94E-06	4.92E-04	4.33E-06	4.01E-06	0.00E+00
Tennessee	Fayette County	47047	U	2.51E-05	2.51E-05	2.67E-05	5.26E-05	5.51E-05	7.48E-05	9.89E-05	9.89E-05	1.97E-05	3.25E-05	2.33E-06	5.73E-07	0.00E+00
Tennessee	Fentress County	47049	R	6.11E-05	6.11E-05	7.33E-05	1.96E-04	2.02E-04	3.31E-04	3.54E-04	3.54E-04	0.00E+00	2.00E-04	1.45E-06	1.85E-07	0.00E+00
Tennessee	Franklin County	47051	R	8.49E-06	8.49E-06	1.88E-05	1.59E-04	1.58E-04	2.26E-04	4.45E-04	4.45E-04	1.45E-04	9.98E-06	2.23E-06	4.47E-07	0.00E+00
Tennessee	Gibson County	47053	R	2.73E-04	5.81E-04	9.84E-04	2.33E-03	4.97E-03	3.52E-03	1.03E-02	3.31E-02	0.00E+00	4.97E-03	2.59E-06	4.64E-07	0.00E+00
Tennessee	Giles County	47055	R	2.82E-05	2.82E-05	3.55E-05	9.91E-05	1.35E-04	2.31E-04	3.19E-04	3.19E-04	8.90E-05	4.27E-05	2.73E-06	3.78E-07	0.00E+00
Tennessee	Grainger County	47057	R	8.46E-05	8.46E-05	1.22E-04	2.07E-04	2.58E-04	3.93E-04	5.33E-04	5.33E-04	9.38E-05	1.61E-04	2.74E-06	3.82E-07	0.00E+00
Tennessee	Greene County	47059	R	3.03E-04	3.38E-04	4.41E-04	1.06E-03	1.00E-03	1.53E-03	1.71E-03	2.19E-03	8.25E-04	1.72E-04	5.20E-06	4.01E-07	0.00E+00
Tennessee	Grundy County	47061	R	7.02E-05	7.02E-05	1.01E-04	4.04E-04	4.01E-04	7.01E-04	7.26E-04	7.26E-04	3.54E-04	4.47E-05	2.31E-06	2.86E-07	0.00E+00
Tennessee	Hamblen County	47063	R	2.69E-04	3.97E-04	5.83E-04	1.01E-03	1.10E-03	1.59E-03	2.11E-03	2.16E-03	4.11E-04	6.81E-04	5.54E-06	8.55E-07	0.00E+00
Tennessee	Hamilton County	47065	U	4.10E-04	4.33E-04	6.23E-04	1.17E-03	4.13E-03	2.36E-03	5.73E-03	1.02E-02	2.92E-03	1.18E-03	2.78E-05	5.11E-06	0.00E+00
Tennessee	Hancock County	47067	R	9.84E-05	9.84E-05	1.11E-04	1.55E-04	3.61E-04	6.11E-04	1.04E-03	1.04E-03	3.09E-04	5.10E-05	1.51E-06	1.63E-07	0.00E+00
Tennessee	Hardeman County	47069	R	5.75E-06	5.75E-06	6.91E-06	1.82E-05	4.33E-05	2.79E-05	1.83E-04	1.83E-04	3.48E-06	3.85E-05	1.11E-06	1.98E-07	0.00E+00
Tennessee	Hardin County	47071	R	1.00E-04	1.00E-04	1.27E-04	1.91E-04	1.95E-04	2.66E-04	2.97E-04	2.97E-04	1.03E-04	8.84E-05	1.47E-06	3.07E-06	0.00E+00
Tennessee	Hawkins County	47073	U	4.16E-04	4.16E-04	5.28E-04	8.55E-04	1.75E-03	2.96E-03	4.95E-03	4.95E-03	1.59E-03	1.56E-04	4.38E-06	4.23E-07	0.00E+00
Tennessee	Haywood County	47075	U	5.11E-05	5.11E-05	2.32E-04	2.54E-04	2.50E-04	3.38E-04	3.76E-04	3.76E-04	7.43E-06	2.39E-04	2.77E-06	6.26E-07	0.00E+00
Tennessee	Henderson County	47077	R	4.53E-05	4.53E-05	2.93E-04	3.25E-04	8.07E-04	1.27E-03	2.58E-03	2.58E-03	5.66E-04	2.38E-04	2.08E-06	7.10E-07	0.00E+00
Tennessee	Henry County	47079	R	3.86E-05	3.86E-05	1.49E-03	2.26E-03	1.84E-03	2.37E-03	3.35E-03	3.35E-03	1.80E-03	4.05E-05	2.97E-06	1.83E-06	0.00E+00
Tennessee	Hickman County	47081	R	1.01E-05	1.01E-05	2.01E-04	2.14E-04	3.46E-04	4.71E-04	8.34E-04	8.34E-04	3.37E-04	6.88E-06	1.40E-06	2.70E-07	0.00E+00
Tennessee	Houston County	47083	R	1.82E-03	1.82E-03	1.82E-03	2.71E-03	2.49E-03	2.94E-03	2.94E-03	2.94E-03	2.47E-03	1.39E-05	9.00E-07	3.24E-06	0.00E+00
Tennessee	Humphreys County	47085	R	2.00E-03	2.00E-03	2.23E-03	5.30E-03	3.65E-02	6.28E-03	1.67E-01	1.67E-01	3.65E-02	4.44E-06	9.37E-07	3.10E-06	0.00E+00
Tennessee	Jackson County	47087	R	4.68E-05	4.68E-05	5.86E-05	7.29E-05	7.32E-05	8.79E-05	1.00E-04	1.00E-04	0.00E+00	7.17E-05	1.20E-06	3.47E-07	0.00E+00
Tennessee	Jefferson County	47089	R	3.99E-04	3.99E-04	4.93E-04	5.67E-04	5.41E-04	5.83E-04	6.85E-04	6.85E-04	1.61E-04	3.74E-04	5.03E-06	6.31E-07	0.00E+00
Tennessee	Johnson County	47091	R	1.06E-03	1.06E-03	1.13E-03	1.17E-03	1.39E-03	1.62E-03	1.97E-03	1.97E-03	7.16E-05	1.32E-03	2.28E-06	1.91E-07	0.00E+00
Tennessee	Knox County	47093	U	4.98E-04	6.47E-04	9.61E-04	1.58E-03	2.94E-03	2.76E-03	5.80E-03	7.96E-03	1.08E-04	2.81E-03	2.12E-05	2.59E-06	0.00E+00
Tennessee	Lake County	47095	R	2.79E-04	2.79E-04	2.79E-04	4.97E-04	4.97E-04	7.15E-04	7.15E-04	7.15E-04	8.96E-05	3.92E-04	1.18E-06	1.39E-05	0.00E+00
Tennessee	Lauderdale County	47097	R	4.01E-04	4.01E-04	4.38E-04	6.06E-04	6.43E-04	8.00E-04	9.97E-04	9.97E-04	6.20E-07	6.38E-04	2.36E-06	2.59E-06	0.00E+00
Tennessee	Lawrence County	47099	R	6.13E-05	6.13E-05	9.51E-05	1.06E-04	8.53E-04	1.29E-03	2.85E-03	2.85E-03	2.60E-05	8.25E-04	1.83E-06	2.67E-07	0.00E+00
Tennessee	Lewis County	47101	R	5.82E-05	5.82E-05	5.82E-05	6.52E-05	6.52E-05	7.22E-05	7.22E-05	7.22E-05	6.70E-07	6.36E-05	7.15E-07	2.57E-07	0.00E+00
Tennessee	Lincoln County	47103	R	1.53E-05	1.53E-05	1.92E-05	3.00E-05	2.59E-05	3.08E-05	3.20E-05	3.20E-05	8.78E-07	2.29E-05	1.72E-06	4.21E-07	0.00E+00
Tennessee	Loudon County	47105	U	5.50E-04	5.50E-04	5.65E-04	7.29E-04	7.99E-04	1.11E-03	1.23E-03	1.23E-03	1.52E-04	6.36E-04	7.91E-06	2.27E-06	0.00E+00
Tennessee	McMinn County	47107	R	4.27E-04	4.27E-04	6.25E-04	1.37E-03	1.22E-03	1.76E-03	1.86E-03	1.86E-03	3.54E-04	8.64E-04	5.09E-06	8.63E-07	0.00E+00
Tennessee	McNairy County	47109	R	2.60E-05	2.60E-05	2.89E-05	3.58E-05	5.27E-05	9.22E-05	1.04E-04	1.04E-04	3.36E-05	1.74E-05	1.17E-06	5.22E-07	0.00E+00
Tennessee	Macon County	47111	R	7.00E-05	7.00E-05	1.18E-04	2.24E-04	2.32E-04	3.46E-04	4.11E-04	4.11E-04	3.35E-05	1.97E-04	1.39E-06	5.27E-07	0.00E+00
Tennessee	Madison County	47113	U	4.20E-04	6.00E-04	1.05E-03	1.58E-03	2.09E-03	1.87E-03	2.23E-03	2.78E-03	0.00E+00	2.08E-03	7.48E-06	8.19E-07	0.00E+00
Tennessee	Marion County	47115	U	4.10E-04	4.10E-04	4.10E-04	5.90E-04	7.80E-04	1.34E-03	1.34E-03	1.34E-03	7.52E-04	2.43E-05	3.43E-06	9.47E-07	0.00E+00
Tennessee	Marshall County	47117	R	3.82E-05	3.82E-05	6.01E-05	6.67E-05	1.13E-04	1.79E-04	2.67E-04	2.67E-04	5.84E-07	1.08E-04	4.13E-06	5.14E-07	0.00E+00
Tennessee	Maury County	47119	U	1.07E-05	1.31E-05	2.46E-05	3.09E-05	5.09E-05	7.29E-05	1.30E-04	1.32E-04	1.40E-06	4.44E-05	4.59E-06	4.63E-07	0.00E+00
Tennessee	Meigs County	47121	R	6.44E-04	6.44E-04	6.44E-04	6.80E-04	7.50E-04	9.26E-04	9.26E-04	9.26E-04	3.25E-04	4.19E-04	3.12E-06	2.80E-06	0.00E+00
Tennessee	Monroe County	47123	R	4.14E-04	4.14E-04	6.45E-04	7.68E-04	8.02E-04	8.84E-04	1.33E-03	1.33E-03	1.79E-04	6.18E-04	4.25E-06	7.58E-07	0.00E+00
Tennessee	Montgomery County	47125	U	3.03E-04	3.54E-04	3.76E-04	4.09E-04	4.68E-04	5.19E-04	6.97E-04	9.97E-04	3.02E-04	1.60E-04	4.80E-06	1.26E-06	0.00E+00
Tennessee	Moore County	47127	U	9.48E-06	9.48E-06	9.48E-06	1.02E-05	1.02E-05	1.10E-05	1.10E-05	1.10E-05	0.00E+00	8.96E-06	1.07E-06	1.95E-07	0.00E+00
Tennessee	Morgan County	47129	R	5.87E-05	5.87E-05	6.42E-05	8.65E-05	1.14E-04	1.33E-04	2.28E-04	2.28E-04	2.67E-05	8.56E-05	1.59E-06	2.26E-07	0.00E+00
Tennessee	Obion County	47131	R	5.67E-05	7.04E-05	9.81E-05	1.17E-04	1.44E-04	1.68E-04	2.74E-04	3.76E-04	2.23E-05	1.18E-04	1.68E-06	1.91E-06	0.00E+00
Tennessee	Overton County	47133	R	3.43E-05	3.43E-05	3.50E-05	4.31E-05	4.72E-05	4.80E-05	7.93E-05	7.93E-05	0.00E+00	4.56E-05	1.38E-06	2.09E-07	0.00E+00
Tennessee	Perry County	47135	R	2.27E-03	2.27E-03	2.27E-03	2.27E-03	2.27E-03	2.27E-03	2.27E-03	2.27E-03	2.21E-03	6.06E-05	5.75E-07	2.61E-06	0.00E+00
Tennessee	Pickett County	47137	R	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	0.00E+00	3.26E-05	7.78E-07	3.31E-07	0.00E+00
Tennessee	Polk County	47139	R	1.95E-04	1.95E-04	2.03E-04	3.12E-04	3.32E-04	4.61E-04	5.09E-04	5.09E-04	1.58E-04	1.72E-04	1.71E-06	2.63E-07	0.00E+00
Tennessee	Putnam County	47141	U	5.73E-05	6.09E-05	8.79E-05	1.99E-04	2.15E-04	2.72E-04	3.98E-04	5.42E-04	0.00E+00	2.09E-04	4.92E-06	6.43E-07	0.00E+00
Tennessee	Rhea County	47143	R	3.13E-04	3.13E-04	5.15E-04	6.25E-04	5.71E-04	6.92E-04	7.08E-04	7.08E-04	1.69E-04	3.96E-04	3.37E-06	2.38E-06	0.00E+00
Tennessee	Roane County	47145	R	2.86E-04	3.81E-04	4.84E-04	5.30E-04	9.73E-04	8.89E-04	2.62E-03	4.02E-03	7.07E-04	2.58E-04	5.86E-06	1.67E-06	0.00E+00
Tennessee	Robertson County	47147	U	3.17E-04	4.38E-04	5.78E-04	6.54E-04	7.41E-04	9.14E-04	1.22E-03	1.51E-03	5.62E-04	1.70E-04	7.47E-06	1.22E-06	0.00E+00
Tennessee	Rutherford County	47149	U	1.78E-05	1.87E-05	6.95E-05	9.77E-05	1.22E-04	2.20E-04	2.32E-04	2.44E-04	6.69E-05	4.42E-05	9.48E-06	1.17E-06	0.00E+00
Tennessee	Scott County	47151	R	3.48E-05	3.48E-05	9.92E-05	1.15E-04	1.79E-04	3.21E-04	3.23E-04	3.23E-04	3.12E-06	1.74E-04	1.20E-06	1.89E-07	0.00E+00

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State	County	FIPS	Urban or Rural	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
Tennessee	Sequatchie County	47153	R	3.72E-04	3.72E-04	3.72E-04	6.92E-04	6.92E-04	1.01E-03	1.01E-03	1.01E-03	5.40E-04	1.48E-04	3.73E-06	8.95E-07	0.00E+00
Tennessee	Sevier County	47155	U	2.84E-04	2.89E-04	3.23E-04	4.30E-04	4.17E-04	5.29E-04	5.29E-04	6.05E-04	1.20E-04	2.91E-04	4.82E-06	6.35E-07	0.00E+00
Tennessee	Shelby County	47157	U	1.28E-04	1.39E-04	1.73E-04	2.36E-04	2.53E-04	2.99E-04	4.03E-04	4.41E-04	1.36E-04	8.14E-05	2.16E-05	1.32E-05	0.00E+00
Tennessee	Smith County	47159	R	5.21E-05	5.21E-05	7.77E-05	1.15E-04	9.98E-05	1.25E-04	1.29E-04	1.29E-04	2.81E-05	6.80E-05	2.23E-06	1.43E-06	0.00E+00
Tennessee	Stewart County	47161	R	5.65E-05	5.65E-05	8.51E-05	1.11E-04	7.12E-04	1.35E-03	2.56E-03	2.56E-03	6.98E-04	9.54E-06	1.07E-06	3.77E-06	0.00E+00
Tennessee	Sullivan County	47163	U	8.20E-04	1.37E-03	2.45E-03	3.71E-03	6.05E-03	6.71E-03	1.46E-02	1.82E-02	4.80E-03	1.24E-03	1.20E-05	8.28E-07	0.00E+00
Tennessee	Sumner County	47165	U	4.63E-04	5.43E-04	6.14E-04	1.16E-03	1.29E-03	1.54E-03	1.65E-03	1.86E-03	5.80E-04	7.04E-04	8.20E-06	1.93E-06	0.00E+00
Tennessee	Tipton County	47167	U	1.14E-04	1.19E-04	2.96E-04	5.08E-04	4.65E-04	6.57E-04	6.81E-04	7.10E-04	1.48E-05	4.41E-04	4.38E-06	4.44E-06	0.00E+00
Tennessee	Trousdale County	47169	R	1.86E-04	1.86E-04	1.86E-04	1.88E-04	1.88E-04	1.89E-04	1.89E-04	1.89E-04	7.80E-05	1.04E-04	2.97E-06	2.62E-06	0.00E+00
Tennessee	Unicoi County	47171	U	1.78E-04	1.78E-04	6.12E-04	1.10E-03	8.93E-04	1.17E-03	1.18E-03	1.18E-03	4.99E-04	3.89E-04	5.05E-06	5.13E-07	0.00E+00
Tennessee	Union County	47173	U	1.31E-04	1.31E-04	1.90E-04	2.50E-04	2.40E-04	2.90E-04	3.28E-04	3.28E-04	4.95E-05	1.87E-04	3.20E-06	4.33E-07	0.00E+00
Tennessee	Van Buren County	47175	R	5.33E-05	5.33E-05	5.33E-05	6.71E-05	6.71E-05	8.09E-05	8.09E-05	8.09E-05	6.96E-06	5.90E-05	1.01E-06	1.27E-07	0.00E+00
Tennessee	Warren County	47177	R	4.09E-05	4.09E-05	1.21E-04	2.89E-04	4.06E-04	4.85E-04	1.43E-03	1.43E-03	2.43E-05	3.79E-04	2.83E-06	4.43E-07	0.00E+00
Tennessee	Washington County	47179	U	1.22E-03	1.44E-03	1.70E-03	2.24E-03	3.08E-03	3.12E-03	7.60E-03	1.09E-02	1.31E-03	1.75E-03	1.50E-05	1.12E-06	0.00E+00
Tennessee	Wayne County	47181	R	2.69E-04	2.69E-04	3.10E-04	1.47E-03	1.54E-03	2.76E-03	2.93E-03	2.93E-03	7.74E-06	1.53E-03	8.97E-07	1.22E-06	0.00E+00
Tennessee	Weakley County	47183	R	7.80E-05	7.80E-05	2.53E-04	4.51E-04	6.11E-04	8.45E-04	1.72E-03	1.72E-03	0.00E+00	6.09E-04	1.63E-06	6.40E-07	0.00E+00
Tennessee	White County	47185	R	7.57E-05	7.57E-05	8.71E-05	1.85E-04	1.91E-04	3.00E-04	3.13E-04	3.13E-04	2.15E-06	1.85E-04	3.06E-06	2.88E-07	0.00E+00
Tennessee	Williamson County	47187	U	3.20E-05	5.19E-05	2.94E-04	3.32E-04	3.42E-04	3.96E-04	6.11E-04	7.90E-04	2.93E-04	3.73E-05	9.55E-06	1.84E-06	0.00E+00
Tennessee	Wilson County	47189	U	7.83E-05	1.58E-04	2.57E-04	3.17E-04	3.58E-04	4.78E-04	5.52E-04	6.41E-04	2.13E-04	1.34E-04	9.50E-06	1.67E-06	0.00E+00
Texas	Statewide	N/A	N/A	4.41E-06	1.46E-05	6.09E-05	4.54E-04	1.43E-03	1.32E-03	2.65E-03	4.14E-03	3.49E-04	1.02E-03	1.65E-05	4.68E-05	0.00E+00
Texas	All Urban Counties	N/A	U	1.24E-05	2.65E-05	1.05E-04	5.79E-04	1.58E-03	1.43E-03	2.82E-03	4.59E-03	3.85E-04	1.12E-03	1.85E-05	5.26E-05	0.00E+00
Texas	All Rural Counties	N/A	R	9.92E-07	1.81E-06	4.60E-06	2.58E-05	3.12E-04	1.90E-04	9.73E-04	1.80E-03	8.25E-05	2.23E-04	1.61E-06	4.65E-06	0.00E+00
Texas	Anderson County	48001	R	2.58E-06	2.71E-06	6.21E-06	9.07E-05	8.14E-05	1.06E-04	1.92E-04	2.75E-04	5.25E-05	2.07E-05	2.61E-06	5.49E-06	0.00E+00
Texas	Andrews County	48003	U	1.39E-06	1.39E-06	2.20E-06	1.43E-05	1.51E-05	2.79E-05	3.02E-05	3.02E-05	0.00E+00	3.12E-06	2.76E-06	9.18E-06	0.00E+00
Texas	Angelina County	48005	U	3.98E-04	6.24E-04	9.28E-04	1.11E-03	1.55E-03	1.52E-03	3.62E-03	5.19E-03	0.00E+00	1.53E-03	4.37E-06	1.66E-05	0.00E+00
Texas	Aransas County	48007	R	1.75E-05	1.75E-05	3.49E-05	3.72E-05	3.55E-05	4.30E-05	4.49E-05	4.49E-05	9.90E-06	3.34E-06	1.59E-06	2.07E-05	0.00E+00
Texas	Archer County	48009	R	1.94E-06	1.94E-06	1.94E-06	2.44E-06	3.57E-06	6.34E-06	6.34E-06	6.34E-06	0.00E+00	6.54E-07	5.42E-07	2.38E-06	0.00E+00
Texas	Armstrong County	48011	R	3.80E-06	3.80E-06	3.80E-06	3.80E-06	3.80E-06	3.80E-06	3.80E-06	3.80E-06	2.52E-06	1.15E-07	1.48E-07	1.01E-06	0.00E+00
Texas	Atascosa County	48013	R	7.53E-05	7.53E-05	1.11E-04	1.31E-04	1.28E-04	1.39E-04	1.87E-04	1.87E-04	9.26E-05	2.61E-05	3.48E-06	5.93E-06	0.00E+00
Texas	Austin County	48015	R	1.76E-05	1.76E-05	1.87E-05	2.23E-05	4.16E-05	4.04E-05	1.09E-04	1.09E-04	1.86E-05	1.69E-05	2.20E-06	3.88E-06	0.00E+00
Texas	Bailey County	48017	U	7.87E-06	7.87E-06	7.87E-06	7.87E-06	7.87E-06	7.87E-06	7.87E-06	7.87E-06	5.62E-06	2.01E-07	8.17E-08	1.98E-06	0.00E+00
Texas	Bandera County	48019	R	5.15E-05	5.15E-05	6.91E-05	3.15E-04	5.07E-04	9.44E-04	1.35E-03	1.35E-03	0.00E+00	5.01E-04	1.33E-06	4.13E-06	0.00E+00
Texas	Bastrop County	48021	U	9.32E-06	9.32E-06	1.31E-05	1.97E-05	3.74E-05	5.41E-05	1.16E-04	1.16E-04	2.08E-05	1.03E-05	1.92E-06	4.36E-06	0.00E+00
Texas	Baylor County	48023	U	3.95E-06	3.95E-06	3.95E-06	4.69E-06	4.69E-06	5.43E-06	5.43E-06	5.43E-06	1.79E-06	2.89E-07	7.95E-08	2.53E-06	0.00E+00
Texas	Bee County	48025	R	2.89E-06	2.89E-06	3.94E-06	1.92E-05	3.31E-05	3.52E-05	1.18E-04	1.18E-04	1.44E-05	7.74E-06	3.75E-06	7.27E-06	0.00E+00
Texas	Bell County	48027	U	7.02E-05	7.39E-05	8.65E-05	1.80E-04	5.72E-04	2.83E-04	8.15E-04	3.23E-03	1.75E-05	5.33E-04	6.50E-06	1.48E-05	0.00E+00
Texas	Bexar County	48029	U	1.72E-04	1.95E-04	2.55E-04	3.31E-04	3.31E-04	3.99E-04	4.49E-04	5.07E-04	1.04E-04	1.60E-04	2.21E-05	4.44E-05	0.00E+00
Texas	Blanco County	48031	R	2.26E-06	2.26E-06	2.26E-06	7.64E-05	7.64E-05	1.50E-04	1.50E-04	1.50E-04	0.00E+00	7.40E-05	5.98E-07	1.79E-06	0.00E+00
Texas	Borden County	48033	R	9.85E-07	9.85E-07	9.85E-07	9.85E-07	9.85E-07	9.85E-07	9.85E-07	9.85E-07	0.00E+00	4.51E-08	8.92E-08	8.51E-07	0.00E+00
Texas	Bosque County	48035	R	2.57E-06	2.57E-06	3.32E-06	6.86E-06	1.44E-05	1.87E-05	4.65E-05	4.65E-05	9.10E-09	8.10E-06	1.37E-06	4.92E-06	0.00E+00
Texas	Bowie County	48037	U	3.43E-04	6.87E-04	8.67E-04	1.08E-03	1.05E-03	1.20E-03	1.67E-03	1.71E-03	7.77E-04	2.58E-04	4.73E-06	1.25E-05	0.00E+00
Texas	Brazoria County	48039	U	6.96E-05	1.03E-04	1.29E-04	2.22E-04	4.16E-04	6.36E-04	9.95E-04	1.18E-03	1.47E-04	2.30E-04	7.18E-06	3.16E-05	0.00E+00
Texas	Brazos County	48041	U	2.64E-05	3.94E-05	5.25E-05	7.00E-05	6.80E-05	7.84E-05	9.88E-05	1.05E-04	9.89E-06	1.86E-05	1.11E-05	2.84E-05	0.00E+00
Texas	Brewster County	48043	U	4.36E-08	4.36E-08	5.48E-08	4.86E-06	6.55E-06	1.30E-05	1.64E-05	1.64E-05	0.00E+00	1.22E-06	8.38E-07	4.48E-06	0.00E+00
Texas	Briscoe County	48045	R	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	0.00E+00	5.24E-08	4.18E-08	9.25E-07	0.00E+00
Texas	Brooks County	48047	U	5.01E-07	5.01E-07	5.01E-07	4.42E-06	4.42E-06	8.34E-06	8.34E-06	8.34E-06	0.00E+00	1.15E-06	1.27E-06	2.01E-06	0.00E+00
Texas	Brown County	48049	U	1.45E-06	1.70E-06	1.98E-06	8.17E-06	1.04E-05	1.76E-05	2.09E-05	2.63E-05	0.00E+00	3.93E-06	1.87E-06	4.59E-06	0.00E+00
Texas	Burleson County	48051	R	3.62E-05	3.62E-05	4.06E-05	4.51E-05	5.53E-05	5.89E-05	9.56E-05	9.56E-05	3.14E-05	1.72E-05	1.42E-06	5.26E-06	0.00E+00
Texas	Burnet County	48053	R	4.37E-06	4.37E-06	5.85E-06	6.35E-06	8.84E-06	1.33E-05	1.55E-05	1.55E-05	0.00E+00	1.68E-06	1.41E-06	5.76E-06	0.00E+00
Texas	Caldwell County	48055	U	4.44E-05	4.44E-05	4.66E-05	1.10E-04	1.13E-04	1.67E-04	1.87E-04	1.87E-04	0.00E+00	1.04E-04	2.69E-06	6.57E-06	0.00E+00
Texas	Calhoun County	48057	U	1.24E-05	1.24E-05	2.01E-05	2.59E-05	3.65E-05	5.69E-05	6.71E-05	6.71E-05	0.00E+00	7.16E-06	1.61E-06	2.77E-05	0.00E+00
Texas	Callahan County	48059	R	1.21E-06	1.21E-06	1.21E-06	2.35E-06	2.35E-06	3.49E-06	3.49E-06	3.49E-06	4.39E-07	3.01E-07	4.67E-07	1.14E-06	0.00E+00
Texas	Cameron County	48061	U	1.32E-05	1.45E-05	2.86E-05	4.81E-05	4.79E-05	6.63E-05	7.69E-05	9.43E-05	0.00E+00	1.10E-05	7.67E-06	2.92E-05	0.00E+00
Texas	Camp County	48063	R	3.58E-04	3.58E-04	3.58E-04	3.81E-04	3.81E-04	4.05E-04	4.05E-04	4.05E-04	2.06E-05	3.52E-04	2.39E-06	6.13E-06	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Texas	Carson County	48065	R	1.86E-05	1.86E-05	1.86E-05	2.09E-05	2.09E-05	2.32E-05	2.32E-05	2.32E-05	1.78E-05	3.06E-07	5.63E-07	2.26E-06	0.00E+00
Texas	Cass County	48067	R	3.75E-05	3.75E-05	6.31E-05	7.62E-05	1.81E-04	3.00E-04	4.44E-04	4.44E-04	2.92E-05	1.46E-04	1.82E-06	4.28E-06	0.00E+00
Texas	Castro County	48069	U	2.78E-06	2.78E-06	2.78E-06	5.61E-06	6.05E-06	9.76E-06	9.76E-06	9.76E-06	1.56E-06	4.83E-07	2.33E-07	3.77E-06	0.00E+00
Texas	Chambers County	48071	U	2.14E-04	2.14E-04	2.52E-04	5.53E-04	5.71E-04	8.33E-04	1.02E-03	1.02E-03	1.16E-04	4.31E-04	3.45E-06	2.01E-05	0.00E+00
Texas	Cherokee County	48073	R	4.18E-05	1.14E-04	1.26E-04	1.90E-04	2.69E-04	2.64E-04	7.22E-04	7.75E-04	3.76E-05	2.24E-04	2.00E-06	5.84E-06	0.00E+00
Texas	Childress County	48075	U	1.36E-06	1.36E-06	1.36E-06	4.04E-06	4.04E-06	6.72E-06	6.72E-06	6.72E-06	0.00E+00	8.72E-07	6.43E-07	2.53E-06	0.00E+00
Texas	Clay County	48077	R	1.66E-06	1.66E-06	1.66E-06	2.19E-06	3.50E-06	6.64E-06	6.64E-06	6.64E-06	0.00E+00	4.18E-07	4.76E-07	2.61E-06	0.00E+00
Texas	Cochran County	48079	R	1.95E-06	1.95E-06	1.95E-06	1.95E-06	1.95E-06	1.95E-06	1.95E-06	1.95E-06	0.00E+00	7.58E-08	4.38E-08	1.83E-06	0.00E+00
Texas	Coke County	48081	R	1.62E-06	1.62E-06	1.62E-06	2.00E-06	2.00E-06	2.39E-06	2.39E-06	2.39E-06	0.00E+00	6.69E-07	1.64E-07	1.17E-06	0.00E+00
Texas	Coleman County	48083	U	1.16E-06	1.16E-06	1.16E-06	1.39E-06	2.83E-06	5.94E-06	5.94E-06	5.94E-06	0.00E+00	5.40E-07	3.66E-07	1.92E-06	0.00E+00
Texas	Collin County	48085	U	1.18E-04	2.50E-04	4.89E-04	6.35E-04	5.91E-04	7.09E-04	7.91E-04	8.30E-04	8.78E-05	4.10E-04	1.93E-05	7.40E-05	0.00E+00
Texas	Collingsworth County	48087	R	1.36E-06	1.36E-06	1.36E-06	2.98E-06	2.98E-06	4.60E-06	4.60E-06	4.60E-06	0.00E+00	5.84E-07	3.53E-07	2.04E-06	0.00E+00
Texas	Colorado County	48089	R	3.49E-06	3.49E-06	5.30E-06	1.23E-05	1.15E-05	1.27E-05	2.35E-05	2.35E-05	5.40E-06	1.86E-06	1.10E-06	3.11E-06	0.00E+00
Texas	Comal County	48091	U	2.31E-04	3.67E-04	3.94E-04	6.31E-04	5.89E-04	7.33E-04	7.62E-04	9.37E-04	1.62E-06	5.63E-04	5.25E-06	1.98E-05	0.00E+00
Texas	Comanche County	48093	R	1.47E-06	1.47E-06	1.68E-06	2.31E-06	4.12E-06	6.56E-06	1.04E-05	1.04E-05	0.00E+00	8.32E-07	6.68E-07	2.62E-06	0.00E+00
Texas	Concho County	48095	R	9.92E-07	9.92E-07	9.92E-07	1.40E-06	1.40E-06	1.81E-06	1.81E-06	1.81E-06	0.00E+00	6.66E-08	7.22E-08	1.26E-06	0.00E+00
Texas	Cooke County	48097	R	4.56E-06	4.56E-06	9.76E-06	1.80E-05	2.28E-05	3.03E-05	6.34E-05	6.34E-05	0.00E+00	7.37E-06	4.55E-06	1.09E-05	0.00E+00
Texas	Coryell County	48099	U	6.70E-06	8.58E-06	9.42E-06	3.34E-05	4.79E-05	4.16E-05	1.06E-04	1.86E-04	2.67E-07	3.89E-05	3.06E-06	5.68E-06	0.00E+00
Texas	Cottle County	48101	R	5.63E-07	5.63E-07	5.63E-07	5.63E-07	5.63E-07	5.63E-07	5.63E-07	5.63E-07	0.00E+00	3.75E-08	2.48E-08	5.01E-07	0.00E+00
Texas	Crane County	48103	U	7.46E-07	7.46E-07	7.46E-07	7.46E-07	7.46E-07	7.46E-07	7.46E-07	7.46E-07	0.00E+00	1.64E-07	1.82E-07	3.99E-07	0.00E+00
Texas	Crockett County	48105	R	4.30E-07	4.30E-07	4.30E-07	4.30E-07	4.30E-07	4.30E-07	4.30E-07	4.30E-07	0.00E+00	3.59E-08	3.18E-07	7.65E-08	0.00E+00
Texas	Crosby County	48107	R	4.16E-06	4.16E-06	4.16E-06	9.95E-06	9.23E-06	1.36E-05	1.36E-05	1.36E-05	0.00E+00	3.93E-06	5.92E-07	4.71E-06	0.00E+00
Texas	Culberson County	48109	U	1.75E-07	1.75E-07	1.75E-07	7.17E-07	7.17E-07	1.26E-06	1.26E-06	1.26E-06	0.00E+00	8.02E-08	4.48E-07	1.88E-07	0.00E+00
Texas	Dallam County	48111	U	1.23E-06	1.23E-06	1.23E-06	5.76E-06	5.76E-06	1.03E-05	1.03E-05	1.03E-05	0.00E+00	1.46E-06	6.06E-07	3.70E-06	0.00E+00
Texas	Dallas County	48113	U	5.37E-04	5.82E-04	7.12E-04	1.09E-03	2.68E-03	1.89E-03	4.42E-03	8.86E-03	2.37E-04	2.34E-03	3.41E-05	7.51E-05	0.00E+00
Texas	Dawson County	48115	U	8.18E-06	8.18E-06	8.18E-06	8.59E-06	1.16E-05	1.81E-05	1.81E-05	1.81E-05	0.00E+00	2.24E-06	1.55E-06	7.83E-06	0.00E+00
Texas	Deaf Smith County	48117	U	1.63E-06	1.63E-06	2.70E-06	1.70E-05	1.41E-05	1.85E-05	3.04E-05	3.04E-05	0.00E+00	4.15E-06	1.68E-06	8.23E-06	0.00E+00
Texas	Delta County	48119	R	7.97E-06	7.97E-06	7.97E-06	8.07E-06	8.07E-06	8.17E-06	8.17E-06	8.17E-06	0.00E+00	1.53E-06	2.13E-06	4.40E-06	0.00E+00
Texas	Denton County	48121	U	5.20E-05	9.51E-05	1.85E-04	1.14E-03	1.11E-03	1.66E-03	2.22E-03	2.54E-03	2.39E-05	1.02E-03	1.98E-05	5.60E-05	0.00E+00
Texas	DeWitt County	48123	R	3.67E-06	3.67E-06	1.39E-05	2.62E-05	2.17E-05	2.82E-05	3.67E-05	3.67E-05	1.90E-05	5.55E-07	5.72E-07	1.60E-06	0.00E+00
Texas	Dickens County	48125	R	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	6.88E-07	0.00E+00	4.48E-08	4.20E-08	6.01E-	

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State	County	FIPS	Urban or Rural	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
Texas	Glasscock County	48173	R	7.31E-06	7.31E-06	7.31E-06	7.31E-06	7.31E-06	7.31E-06	7.31E-06	7.31E-06	6.30E-06	6.12E-08	7.82E-08	8.64E-07	0.00E+00
Texas	Goliad County	48175	R	2.53E-05	2.53E-05	2.53E-05	3.04E-05	3.04E-05	3.54E-05	3.54E-05	3.54E-05	2.79E-05	4.40E-07	4.90E-07	1.56E-06	0.00E+00
Texas	Gonzales County	48177	R	1.66E-06	1.66E-06	4.03E-06	1.19E-05	1.25E-05	1.98E-05	2.58E-05	2.58E-05	0.00E+00	6.70E-06	1.43E-06	4.39E-06	0.00E+00
Texas	Gray County	48179	U	8.63E-06	8.63E-06	6.14E-05	1.49E-04	2.53E-04	2.48E-04	1.04E-03	1.04E-03	2.35E-04	6.94E-06	2.70E-06	8.87E-06	0.00E+00
Texas	Grayson County	48181	U	1.10E-05	1.24E-05	2.15E-05	4.46E-05	5.66E-05	7.65E-05	1.01E-04	1.36E-04	0.00E+00	2.90E-05	8.03E-06	1.95E-05	0.00E+00
Texas	Gregg County	48183	U	2.11E-03	2.28E-03	7.15E-03	1.23E-02	2.22E-02	2.91E-02	4.69E-02	7.22E-02	6.83E-04	2.15E-02	1.14E-05	2.31E-05	0.00E+00
Texas	Grimes County	48185	R	1.45E-05	1.45E-05	5.07E-05	5.37E-05	5.62E-05	7.72E-05	8.17E-05	8.17E-05	1.26E-05	3.79E-05	1.71E-06	3.97E-06	0.00E+00
Texas	Guadalupe County	48187	U	1.43E-04	3.45E-04	4.29E-04	8.23E-04	7.91E-04	9.73E-04	1.50E-03	1.77E-03	3.31E-06	7.71E-04	4.07E-06	1.26E-05	0.00E+00
Texas	Hale County	48189	U	7.13E-06	7.13E-06	1.61E-05	2.29E-05	2.38E-05	3.33E-05	4.08E-05	4.08E-05	3.32E-11	8.95E-06	3.05E-06	1.18E-05	0.00E+00
Texas	Hall County	48191	R	9.50E-07	9.50E-07	9.50E-07	1.28E-06	1.28E-06	1.61E-06	1.61E-06	1.61E-06	0.00E+00	7.36E-08	1.11E-07	1.10E-06	0.00E+00
Texas	Hamilton County	48193	R	1.22E-06	1.22E-06	1.22E-06	1.29E-06	3.57E-06	8.22E-06	8.22E-06	8.22E-06	0.00E+00	9.12E-07	4.65E-07	2.20E-06	0.00E+00
Texas	Hansford County	48195	U	2.00E-06	2.00E-06	2.00E-06	3.00E-06	3.00E-06	3.99E-06	3.99E-06	3.99E-06	0.00E+00	1.42E-07	5.92E-08	2.80E-06	0.00E+00
Texas	Hardeman County	48197	U	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	0.00E+00	1.57E-07	6.17E-08	1.45E-06	0.00E+00
Texas	Hardin County	48199	U	8.77E-04	1.95E-03	2.40E-03	2.77E-03	2.96E-03	3.83E-03	4.37E-03	4.38E-03	1.42E-03	1.52E-03	3.60E-06	8.51E-06	0.00E+00
Texas	Harris County	48201	U	7.94E-04	9.77E-04	1.29E-03	1.84E-03	2.65E-03	2.58E-03	4.00E-03	6.26E-03	2.27E-04	2.28E-03	3.43E-05	1.13E-04	0.00E+00
Texas	Harrison County	48203	R	1.30E-04	1.30E-04	7.07E-04	9.41E-04	1.04E-03	1.36E-03	2.16E-03	2.16E-03	5.51E-04	4.75E-04	4.68E-06	4.74E-06	0.00E+00
Texas	Hartley County	48205	R	1.16E-06	1.16E-06	1.16E-06	1.16E-06	1.16E-06	1.16E-06	1.16E-06	1.16E-06	0.00E+00	6.95E-08	4.40E-08	1.05E-06	0.00E+00
Texas	Haskell County	48207	R	3.66E-06	3.66E-06	3.66E-06	3.73E-06	3.73E-06	3.80E-06	3.80E-06	3.80E-06	0.00E+00	1.48E-07	1.12E-07	3.47E-06	0.00E+00
Texas	Hays County	48209	U	1.64E-04	2.41E-04	2.73E-04	3.43E-04	5.21E-04	4.85E-04	6.98E-04	2.52E-03	5.85E-06	4.92E-04	8.71E-06	1.47E-05	0.00E+00
Texas	Hemphill County	48211	R	7.71E-07	7.71E-07	7.71E-07	4.65E-06	4.65E-06	8.52E-06	8.52E-06	8.52E-06	0.00E+00	8.62E-07	6.01E-07	3.18E-06	0.00E+00
Texas	Henderson County	48213	U	4.42E-06	6.04E-06	8.43E-06	1.48E-05	1.89E-05	2.60E-05	3.81E-05	4.44E-05	7.39E-06	3.31E-06	2.46E-06	5.74E-06	0.00E+00
Texas	Hidalgo County	48215	U	1.23E-05	1.68E-05	2.18E-05	2.74E-05	3.42E-05	4.15E-05	5.84E-05	7.96E-05	0.00E+00	7.93E-06	8.59E-06	1.76E-05	0.00E+00
Texas	Hill County	48217	R	4.61E-06	6.88E-06	2.08E-05	3.01E-05	3.39E-05	4.71E-05	6.39E-05	7.02E-05	8.38E-06	1.42E-05	3.34E-06	8.00E-06	0.00E+00
Texas	Hockley County	48219	U	2.35E-06	2.35E-06	8.37E-06	9.75E-06	9.88E-06	1.25E-05	1.54E-05	1.54E-05	4.68E-11	3.78E-06	1.24E-06	4.86E-06	0.00E+00
Texas	Hood County	48221	U	2.91E-05	2.91E-05	3.65E-05	5.17E-05	4.76E-05	5.49E-05	6.58E-05	6.58E-05	6.09E-08	3.84E-05	2.76E-06	6.36E-06	0.00E+00
Texas	Hopkins County	48223	R	4.05E-06	4.05E-06	4.43E-06	1.15E-05	1.47E-05	2.26E-05	3.68E-05	3.68E-05	4.81E-12	4.89E-06	2.91E-06	6.93E-06	0.00E+00
Texas	Houston County	48225	R	4.18E-05	4.18E-05	4.29E-05	1.65E-04	1.41E-04	1.93E-04	3.22E-04	3.22E-04	6.31E-05	7.26E-05	1.60E-06	3.42E-06	0.00E+00
Texas	Howard County	48227	U	9.57E-06	9.57E-06	3.40E-05	4.52E-05	3.88E-05	4.89E-05	5.90E-05	5.90E-05	2.35E-05	4.16E-06	2.94E-06	8.14E-06	0.00E+00
Texas	Hudspeth County	48229	R	3.20E-07	3.20E-07	3.20E-07	3.94E-07	3.94E-07	4.68E-07	4.68E-07	4.68E-07	0.00E+00	1.99E-08	2.57E-07	1.16E-07	0.00E+00
Texas	Hunt County	48231	U	6.17E-06	7.45E-06	1.45E-05	1.75E-05	2.74E-05	3.01E-05	6.86E-05	8.24E-05	1.52E-06	1.03E-05	4.65E-06	1.09E-05	0.00E+00
Texas	Hutchinson County	48233	U	2.67E-05	2.67E-05	5.37E-05	7.15E-05	8.71E-05	1.12E-04	1.71E-04	1.71E-04	6.84E-05	9.52E-06	2.34E-06</		

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				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background
Texas	Lampasas County	48281	R	1.32E-06	1.32E-06	1.96E-06	6.54E-06	7.46E-06	1.29E-05	1.54E-05	1.54E-05	0.00E+00	1.61E-06	1.68E-06	4.16E-06	0.00E+00
Texas	La Salle County	48283	U	9.74E-07	9.74E-07	9.74E-07	1.06E-06	1.06E-06	1.15E-06	1.15E-06	1.15E-06	0.00E+00	3.48E-08	4.61E-07	5.65E-07	0.00E+00
Texas	Lavaca County	48285	R	1.91E-06	1.91E-06	2.54E-06	3.64E-06	5.58E-06	5.09E-06	1.66E-05	1.66E-05	0.00E+00	1.80E-06	8.54E-07	2.92E-06	0.00E+00
Texas	Lee County	48287	R	2.96E-05	2.96E-05	3.01E-05	7.92E-05	1.60E-04	2.89E-04	4.51E-04	4.51E-04	1.37E-04	1.59E-05	1.21E-06	5.47E-06	0.00E+00
Texas	Leon County	48289	R	8.27E-05	8.27E-05	8.27E-05	7.23E-04	7.87E-04	1.56E-03	1.56E-03	1.56E-03	5.39E-05	7.31E-04	1.02E-06	1.45E-06	0.00E+00
Texas	Liberty County	48291	U	9.61E-05	9.73E-05	2.02E-04	2.97E-04	3.73E-04	6.20E-04	6.51E-04	7.23E-04	3.85E-05	3.21E-04	3.33E-06	9.59E-06	0.00E+00
Texas	Limestone County	48293	R	3.21E-06	3.21E-06	2.52E-04	2.94E-04	2.81E-04	3.68E-04	4.20E-04	4.20E-04	8.85E-05	1.88E-04	1.02E-06	3.74E-06	0.00E+00
Texas	Lipscomb County	48295	R	8.50E-07	8.50E-07	8.50E-07	1.44E-06	1.44E-06	2.04E-06	2.04E-06	2.04E-06	0.00E+00	9.71E-08	8.81E-08	1.26E-06	0.00E+00
Texas	Live Oak County	48297	R	4.64E-06	4.64E-06	8.24E-06	2.32E-05	2.54E-05	4.26E-05	5.07E-05	5.07E-05	1.48E-05	5.69E-06	1.30E-06	3.68E-06	0.00E+00
Texas	Llano County	48299	R	1.69E-06	1.69E-06	2.19E-06	7.24E-06	6.64E-06	9.18E-06	1.23E-05	1.23E-05	0.00E+00	1.63E-06	5.82E-07	4.43E-06	0.00E+00
Texas	Loving County	48301	R	6.73E-07	6.73E-07	6.73E-07	6.73E-07	6.73E-07	6.73E-07	6.73E-07	6.73E-07	0.00E+00	4.67E-07	8.23E-08	1.23E-07	0.00E+00
Texas	Lubbock County	48303	U	2.52E-05	3.17E-05	5.34E-05	7.70E-05	1.36E-04	1.27E-04	2.03E-04	2.20E-04	0.00E+00	1.09E-04	7.70E-06	1.95E-05	0.00E+00
Texas	Lynn County	48305	R	3.32E-06	3.32E-06	3.32E-06	1.22E-05	9.61E-06	1.33E-05	1.33E-05	1.33E-05	0.00E+00	4.43E-06	5.10E-07	4.67E-06	0.00E+00
Texas	McCulloch County	48307	U	9.97E-07	9.97E-07	9.97E-07	1.53E-06	4.25E-06	1.02E-05	1.02E-05	1.02E-05	0.00E+00	1.31E-06	7.90E-07	2.15E-06	0.00E+00
Texas	McLennan County	48309	U	4.01E-05	5.98E-05	1.24E-04	2.60E-04	4.19E-04	5.65E-04	8.21E-04	1.23E-03	5.16E-08	3.94E-04	7.97E-06	1.72E-05	0.00E+00
Texas	McMullen County	48311	R	7.35E-05	7.35E-05	7.35E-05	7.35E-05	7.35E-05	7.35E-05	7.35E-05	7.35E-05	7.22E-05	8.14E-08	1.52E-07	1.01E-06	0.00E+00
Texas	Madison County	48313	R	1.61E-05	1.61E-05	1.97E-05	2.36E-05	7.29E-05	1.26E-04	2.28E-04	2.28E-04	1.42E-05	5.25E-05	2.86E-06	3.43E-06	0.00E+00
Texas	Marion County	48315	R	1.08E-04	1.08E-04	4.37E-04	8.95E-04	8.27E-04	1.22E-03	1.41E-03	1.41E-03	2.35E-04	5.87E-04	1.54E-06	4.16E-06	0.00E+00
Texas	Martin County	48317	R	7.21E-06	7.21E-06	7.21E-06	8.07E-06	8.07E-06	8.92E-06	8.92E-06	8.92E-06	4.79E-06	2.80E-07	6.90E-07	2.31E-06	0.00E+00
Texas	Mason County	48319	R	5.36E-07	5.36E-07	5.36E-07	1.65E-06	1.65E-06	2.76E-06	2.76E-06	2.76E-06	0.00E+00	1.97E-07	4.02E-07	1.05E-06	0.00E+00
Texas	Matagorda County	48321	U	1.36E-05	1.36E-05	1.96E-05	4.39E-05	4.38E-05	6.54E-05	7.90E-05	7.90E-05	2.90E-05	2.47E-06	1.16E-06	1.12E-05	0.00E+00
Texas	Maverick County	48323	U	4.60E-07	4.60E-07	3.21E-06	1.59E-05	1.39E-05	1.71E-05	4.20E-05	4.20E-05	0.00E+00	3.54E-06	4.69E-06	5.66E-06	0.00E+00
Texas	Medina County	48325	R	5.21E-06	5.21E-06	1.13E-05	3.78E-05	1.16E-04	2.56E-04	3.48E-04	3.48E-04	8.61E-08	1.09E-04	2.54E-06	4.72E-06	0.00E+00
Texas	Menard County	48327	R	1.48E-04	1.48E-04	1.48E-04	1.62E-04	1.62E-04	1.76E-04	1.76E-04	1.76E-04	0.00E+00	1.61E-04	3.21E-07	5.98E-07	0.00E+00
Texas	Midland County	48329	U	7.75E-06	1.53E-05	2.90E-05	3.73E-05	6.07E-05	5.40E-05	6.59E-05	1.07E-04	0.00E+00	1.08E-05	7.40E-06	4.24E-05	0.00E+00
Texas	Milam County	48331	R	8.52E-05	8.52E-05	3.28E-04	6.46E-04	8.70E-04	7.13E-04	2.80E-03	2.80E-03	7.92E-04	7.06E-05	1.57E-06	5.05E-06	0.00E+00
Texas	Mills County	48333	R	1.57E-06	1.57E-06	1.57E-06	1.61E-06	1.61E-06	1.66E-06	1.66E-06	1.66E-06	0.00E+00	2.71E-07	2.51E-07	1.09E-06	0.00E+00
Texas	Mitchell County	48335	U	1.85E-06	1.85E-06	1.85E-06	2.12E-06	2.75E-06	4.26E-06	4.26E-06	4.26E-06	1.04E-06	3.26E-07	4.24E-07	9.53E-07	0.00E+00
Texas	Montague County	48337	R	1.57E-06	1.57E-06	2.01E-06	3.25E-06	5.37E-06	1.03E-05	1.19E-05	1.19E-05	0.00E+00	1.07E-06	8.11E-07	3.49E-06	0.00E+00
Texas	Montgomery County	48339	U	5.25E-05	6.11E-05	2.05E-04	3.02E-04	3.78E-04	4.71E-04	8.34E-04	1.03E-03	1.88E-05	3.16E-04	1.46E-05	2.87E-05	0.00E+00
Texas	Moore County	48341	U	1.12E-05	1.12E-05	1.91E-05	2.89E-05	2.55E-05	3.19E-05	3.30E-05	3.30E-05	1.55E-05	2.79E-06	1.57E-06	5.65E-06	0.00E+00
Texas	Morris County	48343	R	1.75E-03	1.75E-03	1.75E-03	3.11E-03	3.23E-03	4.84E-03	4.84E-03	4.84E-03	2.25E-05	3.21E-03	1.06E-06	4.93E-06	0.00E+00
Texas	Motley County	48345	R	4.12E-07	4.12E-07	4.12E-07	4.12E-07	4.12E-07	4.12E-07	4.12E-07	4.12E-07	0.00E+00	1.98E-08	7.99E-09	3.84E-07	0.00E+00
Texas	Nacogdoches County	48347	U	7.13E-05	1.84E-04	7.96E-04	1.31E-03	1.10E-03	1.45E-03	1.55E-03	1.74E-03	1.41E-05	1.07E-03	4.04E-06	1.35E-05	0.00E+00
Texas	Navarro County	48349	U	3.45E-06	4.29E-06	7.08E-06	1.12E-05	1.55E-05	1.51E-05	4.01E-05	5.21E-05	2.00E-06	3.49E-06	1.93E-06	8.08E-06	0.00E+00
Texas	Newton County	48351	R	1.04E-03	1.04E-03	1.49E-03	1.26E-03	1.91E-03	2.33E-03	2.50E-03	2.50E-03	7.76E-04	1.13E-03	1.06E-06	4.34E-06	0.00E+00
Texas	Nolan County	48353	U	3.53E-06	3.53E-06	8.40E-06	1.64E-05	1.69E-05	2.19E-05	3.42E-05	3.42E-05	2.51E-08	6.24E-06	2.75E-06	7.86E-06	0.00E+00
Texas	Nueces County	48355	U	5.43E-05	5.83E-05	9.43E-05	1.39E-04	2.31E-04	2.54E-04	3.98E-04	7.78E-04	1.29E-04	4.78E-05	8.42E-06	4.62E-05	0.00E+00
Texas	Ochiltree County	48357	U	2.97E-06	2.97E-06	2.97E-06	2.12E-05	1.95E-05	3.44E-05	3.44E-05	3.44E-05	0.00E+00	1.77E-06	9.66E-07	1.68E-05	0.00E+00
Texas	Oldham County	48359	R	6.96E-07	6.96E-07	6.96E-07	6.96E-07	6.96E-07	6.96E-07	6.96E-07	6.96E-07	0.00E+00	4.39E-08	2.66E-07	3.86E-07	0.00E+00
Texas	Orange County	48361	U	2.32E-03	2.45E-03	2.78E-03	3.04E-03	4.31E-03	5.02E-03	9.31E-03	9.72E-03	1.38E-03	2.88E-03	6.75E-06	4.28E-05	0.00E+00
Texas	Palo Pinto County	48363	U	2.13E-06	2.13E-06	1.73E-05	4.93E-05	3.96E-05	5.64E-05	7.11E-05	7.11E-05	0.00E+00	3.17E-05	1.95E-06	6.01E-06	0.00E+00
Texas	Panola County	48365	R	1.62E-04	1.62E-04	3.27E-04	5.68E-04	5.76E-04	8.57E-04	9.73E-04	9.73E-04	1.68E-04	4.00E-04	1.93E-06	5.39E-06	0.00E+00
Texas	Parker County	48367	U	1.13E-04	1.15E-04	1.40E-04	1.50E-04	4.50E-04	1.66E-04	2.16E-04	4.01E-03	2.45E-05	4.14E-04	4.19E-06	6.79E-06	0.00E+00
Texas	Parmer County	48369	R	3.52E-06	3.52E-06	3.52E-06	4.38E-06	4.38E-06	5.24E-06	5.24E-06	5.24E-06	9.76E-07	4.76E-07	2.14E-07	2.71E-06	0.00E+00
Texas	Pecos County	48371	U	4.50E-07	4.50E-07	6.36E-07	3.26E-06	4.81E-06	8.98E-06	1.23E-05	1.23E-05	0.00E+00	1.05E-06	6.84E-07	3.07E-06	0.00E+00
Texas	Polk County	48373	R	2.60E-04	2.60E-04	4.43E-04	8.82E-04	8.79E-04	1.17E-03	1.89E-03	1.89E-03	0.00E+00	8.71E-04	2.24E-06	6.19E-06	0.00E+00
Texas	Potter County	48375	U	1.71E-05	2.22E-05	3.00E-05	3.80E-05	4.36E-05	5.07E-05	6.67E-05	1.04E-04	7.21E-06	1.38E-05	6.91E-06	1.57E-05	0.00E+00
Texas	Presidio County	48377	U	8.39E-08	8.39E-08	8.39E-08	1.45E-07	1.45E-07	2.06E-07	2.06E-07	2.06E-07	0.00E+00	2.14E-08	3.37E-08	8.96E-08	0.00E+00
Texas	Rains County	48379	R	5.62E-06	5.62E-06	5.62E-06	7.34E-06	7.34E-06	9.07E-06	9.07E-06	9.07E-06	0.00E+00	1.09E-06	1.51E-06	4.75E-06	0.00E+00
Texas	Randall County	48381	U	1.01E-05	1.22E-05	1.81E-05	2.69E-05	2.68E-05	3.35E-05	3.90E-05	4.42E-05	4.72E-06	5.61E-06	6.62E-06	9.88E-06	0.00E+00
Texas	Reagan County	48383	U	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	0.00E+00	2.86E-08	1.26E-08	4.23E-07	0.00E+00
Texas	Real County	48385	R	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	0.00E+00	1.33E-03	4.48E-08	2.76E-07	0.00E+00
Texas	Red River County	48387	R	3.61E-06	3.61E-06	8.55E-05	2.17E-04	3.47E-04	4.66E-04	9.61E-04	9.61E-04	4.06E-05	3.03E-04	5.08E-07	2.14E-06	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Texas	Reeves County	48389	U	4.80E-07	4.80E-07	5.85E-07	9.55E-06	7.16E-06	1.18E-05	1.33E-05	1.33E-05	0.00E+00	1.55E-06	2.00E-06	3.61E-06	0.00E+00
Texas	Refugio County	48391	R	1.20E-05	1.20E-05	1.20E-05	2.94E-05	2.71E-05	3.99E-05	3.99E-05	3.99E-05	1.86E-05	9.44E-07	4.05E-07	7.14E-06	0.00E+00
Texas	Roberts County	48393	R	4.28E-06	4.28E-06	4.28E-06	4.28E-06	4.28E-06	4.28E-06	4.28E-06	4.28E-06	3.42E-06	1.62E-07	1.03E-07	5.87E-07	0.00E+00
Texas	Robertson County	48395	R	4.27E-05	4.27E-05	1.14E-04	1.56E-04	2.66E-04	2.16E-04	8.04E-04	8.04E-04	2.57E-05	2.37E-04	8.91E-07	3.34E-06	0.00E+00
Texas	Rockwall County	48397	U	6.92E-05	6.92E-05	7.61E-05	2.13E-04	1.87E-04	2.82E-04	3.16E-04	3.16E-04	5.54E-05	1.02E-04	6.52E-06	2.29E-05	0.00E+00
Texas	Runnels County	48399	U	3.03E-06	3.03E-06	3.36E-06	4.47E-06	4.52E-06	5.67E-06	6.10E-06	6.10E-06	0.00E+00	1.13E-06	3.99E-07	2.99E-06	0.00E+00
Texas	Rusk County	48401	R	1.30E-04	2.38E-04	8.31E-04	1.65E-03	1.71E-03	2.06E-03	2.53E-03	5.57E-03	1.20E-03	5.02E-04	2.40E-06	5.59E-06	0.00E+00
Texas	Sabine County	48403	R	7.66E-04	7.66E-04	7.66E-04	8.10E-04	9.00E-04	1.12E-03	1.12E-03	1.12E-03	1.26E-05	8.82E-04	5.32E-07	4.48E-06	0.00E+00
Texas	San Augustine County	48405	R	6.34E-04	6.34E-04	6.34E-04	6.80E-04	7.61E-04	9.70E-04	9.70E-04	9.70E-04	2.16E-07	7.54E-04	1.06E-06	5.75E-06	0.00E+00
Texas	San Jacinto County	48407	R	1.23E-04	1.23E-04	1.30E-04	2.07E-04	2.10E-04	2.90E-04	3.02E-04	3.02E-04	2.57E-06	2.00E-04	1.96E-06	4.76E-06	0.00E+00
Texas	San Patricio County	48409	U	5.41E-05	5.67E-05	7.88E-05	8.99E-05	1.34E-04	1.30E-04	2.88E-04	3.75E-04	8.35E-05	2.06E-05	3.59E-06	2.60E-05	0.00E+00
Texas	San Saba County	48411	U	1.07E-06	1.07E-06	1.07E-06	2.63E-06	2.63E-06	4.19E-06	4.19E-06	4.19E-06	0.00E+00	2.58E-07	4.97E-07	1.87E-06	0.00E+00
Texas	Schleicher County	48413	R	9.01E-07	9.01E-07	9.01E-07	2.13E-06	2.13E-06	3.36E-06	3.36E-06	3.36E-06	0.00E+00	3.99E-07	5.46E-07	1.18E-06	0.00E+00
Texas	Scurry County	48415	U	1.25E-06	1.25E-06	2.47E-06	3.78E-06	5.08E-06	7.69E-06	1.15E-05	1.15E-05	0.00E+00	5.11E-07	9.15E-07	3.65E-06	0.00E+00
Texas	Shackelford County	48417	R	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	2.46E-07	1.12E-07	2.27E-07	6.91E-07	0.00E+00
Texas	Shelby County	48419	R	1.47E-04	1.47E-04	2.24E-04	3.52E-04	5.00E-04	7.35E-04	1.19E-03	1.19E-03	3.21E-05	4.61E-04	1.07E-06	5.98E-06	0.00E+00
Texas	Sherman County	48421	R	1.13E-05	1.13E-05	1.13E-05	1.13E-05	1.13E-05	1.13E-05	1.13E-05	1.13E-05	8.86E-06	1.92E-07	6.51E-08	2.20E-06	0.00E+00
Texas	Smith County	48423	U	1.03E-04	1.21E-04	1.96E-04	2.56E-04	3.08E-04	3.14E-04	6.31E-04	7.71E-04	1.83E-04	1.05E-04	3.78E-06	1.62E-05	0.00E+00
Texas	Somervell County	48425	R	3.98E-05	3.98E-05	3.98E-05	3.98E-05	3.98E-05	3.99E-05	3.99E-05	3.99E-05	2.46E-08	2.82E-05	2.77E-06	8.78E-06	0.00E+00
Texas	Starr County	48427	R	2.51E-06	2.63E-06	2.93E-06	5.42E-06	8.42E-06	1.46E-05	1.68E-05	1.91E-05	0.00E+00	1.34E-06	3.27E-06	3.82E-06	0.00E+00
Texas	Stephens County	48429	U	1.11E-06	1.11E-06	1.53E-06	3.29E-06	3.10E-06	4.66E-06	4.69E-06	4.69E-06	0.00E+00	8.17E-07	5.04E-07	1.77E-06	0.00E+00
Texas	Sterling County	48431	R	2.34E-07	2.34E-07	2.34E-07	2.34E-07	2.34E-07	2.34E-07	2.34E-07	2.34E-07	0.00E+00	1.94E-08	4.59E-08	1.69E-07	0.00E+00
Texas	Stonewall County	48433	R	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	0.00E+00	4.43E-08	2.52E-08	7.56E-07	0.00E+00
Texas	Sutton County	48435	U	5.52E-07	5.52E-07	5.52E-07	2.63E-06	2.63E-06	4.71E-06	4.71E-06	4.71E-06	0.00E+00	1.33E-07	1.55E-06	9.51E-07	0.00E+00
Texas	Swisher County	48437	U	3.06E-06	3.06E-06	3.06E-06	4.04E-06	5.30E-06	8.80E-06	8.80E-06	8.80E-06	0.00E+00	1.17E-06	6.72E-07	3.46E-06	0.00E+00
Texas	Tarrant County	48439	U	5.32E-04	6.07E-04	9.15E-04	1.16E-03	1.94E-03	1.61E-03	2.83E-03	4.13E-03	3.38E-04	1.53E-03	2.40E-05	4.48E-05	0.00E+00
Texas	Taylor County	48441	U	8.26E-06	1.33E-05	2.75E-05	4.07E-05	4.37E-05	5.43E-05	7.95E-05	9.12E-05	8.39E-06	1.02E-05	6.18E-06	1.89E-05	0.00E+00
Texas	Terrell County	48443	R	4.16E-08	4.16E-08	4.16E-08	4.16E-08	4.16E-08	4.16E-08	4.16E-08	4.16E-08	0.00E+00	1.00E-08	6.52E-09	2.51E-08	0.00E+00
Texas	Terry County	48445	U	1.68E-05	1.68E-05	1.68E-05	2.49E-05	2.22E-05	2.49E-05	2.49E-05	2.49E-05	0.00E+00	3.07E-06	2.50E-06	1.67E-05	0.00E+00
Texas	Throckmorton County	48447	R	8.97E-07	8.97E-07	8.97E-07	8.97E-07	8.97E-07	8.97E-07	8.97E-07	8.97E-07	0.00E+00	3.06E-08	3.27E-08	8.34E-07	0.00E+00
Texas	Titus County	48449	U	1.54E-04	1.54E-04	4.37E-04	5.75E-04	5.69E-04	6.40E-04	1.09E-03	1.09E-03	4.13E-05	5.12E-04	3.06E-06	1.28E-05	0.00E+00
Texas	Tom Green County	48451	U	3.56E-06	7.72E-06	2.78E-05	3.49E-05	3.41E-05	4.06E-05	5.56E-05	6.92E-05	0.00E+00	1.04E-05	6.16E-06	1.76E-05	0.00E+00
Texas	Travis County	48453	U	9.12E-05	1.15E-04	2.24E-04	3.82E-04	4.06E-04	4.91E-04	6.77E-04	9.05E-04	1.05E-04	2.22E-04	2.04E-05	5.86E-05	0.00E+00
Texas	Trinity County	48455	R	4.61E-05	4.61E-05	2.20E-04	2.44E-04	3.24E-04	2.64E-04	8.46E-04	8.46E-04	0.00E+00	3.18E-04	9.28E-07	5.55E-06	0.00E+00
Texas	Tyler County	48457	R	1.56E-03	1.56E-03	2.10E-03	2.15E-03	2.54E-03	3.25E-03	3.65E-03	3.65E-03	1.91E-04	2.34E-03	1.54E-06	3.27E-06	0.00E+00
Texas	Upshur County	48459	R	6.60E-04	6.60E-04	1.19E-03	1.62E-03	1.97E-03	3.11E-03	4.16E-03	4.16E-03	9.15E-05	1.87E-03	2.25E-06	5.56E-06	0.00E+00
Texas	Upton County	48461	R	3.51E-07	3.51E-07	3.51E-07	5.40E-07	5.40E-07	7.29E-07	7.29E-07	7.29E-07	0.00E+00	7.66E-08	1.36E-07	3.27E-07	0.00E+00
Texas	Uvalde County	48463	U	2.47E-06	2.47E-06	2.60E-06	1.43E-05	1.12E-05	1.50E-05	2.17E-05	2.17E-05	0.00E+00	3.27E-06	2.04E-06	5.90E-06	0.00E+00
Texas	Val Verde County	48465	U	6.23E-07	6.23E-07	6.09E-06	1.61E-05	1.67E-05	3.05E-05	3.65E-05	3.65E-05	0.00E+00	3.81E-06	3.61E-06	9.29E-06	0.00E+00
Texas	Van Zandt County	48467	R	6.51E-06	7.20E-06	8.74E-06	3.57E-05	2.94E-05	4.17E-05	5.20E-05	5.24E-05	1.90E-05	3.11E-06	2.25E-06	4.97E-06	0.00E+00
Texas	Victoria County	48469	U	1.43E-05	1.78E-05	2.08E-05	3.79E-05	3.81E-05	5.31E-05	6.04E-05	6.04E-05	7.54E-06	9.85E-06	5.68E-06	1.50E-05	0.00E+00
Texas	Walker County	48471	U	8.35E-06	8.35E-06	2.40E-05	3.38E-05	3.38E-05	4.37E-05	5.89E-05	5.89E-05	5.67E-06	1.40E-05	5.75E-06	8.34E-06	0.00E+00
Texas	Waller County	48473	U	3.09E-05	3.09E-05	8.58E-05	1.32E-04	1.63E-04	2.51E-04	3.45E-04	3.45E-04	4.80E-05	9.70E-05	5.99E-06	1.16E-05	0.00E+00
Texas	Ward County	48475	U	1.59E-06	1.59E-06	1.59E-06	1.05E-05	8.22E-06	1.26E-05	1.26E-05	1.26E-05	0.00E+00	1.60E-06	1.89E-06	4.73E-06	0.00E+00
Texas	Washington County	48477	R	2.17E-05	2.17E-05	5.91E-05	2.60E-04	3.57E-04	3.65E-04	1.17E-03	1.17E-03	3.91E-06	3.38E-04	3.31E-06	1.16E-05	0.00E+00
Texas	Webb County	48479	U	2.38E-06	4.68E-06	2.22E-05	4.02E-05	4.04E-05	5.24E-05	7.62E-05	1.02E-04	0.00E+00	9.06E-06	8.53E-06	2.28E-05	0.00E+00
Texas	Wharton County	48481	U	5.49E-06	2.09E-05	4.12E-05	5.20E-05	6.11E-05	1.01E-04	1.06E-04	1.10E-04	4.61E-05	3.94E-06	2.13E-06	9.01E-06	0.00E+00
Texas	Wheeler County	48483	R	1.31E-06	1.31E-06	1.31E-06	1.66E-06	1.66E-06	2.01E-06	2.01E-06	2.01E-06	0.00E+00	1.10E-07	4.94E-07	1.05E-06	0.00E+00
Texas	Wichita County	48485	U	1.05E-05	1.25E-05	1.80E-05	2.81E-05	3.12E-05	3.39E-05	4.96E-05	4.96E-05	2.76E-07	9.31E-06	5.04E-06	1.65E-05	0.00E+00
Texas	Wilbarger County	48487	U	1.56E-05	1.56E-05	1.97E-05	3.31E-05	3.17E-05	4.38E-05	4.52E-05	4.52E-05	1.87E-05	3.55E-06	1.64E-06	7.82E-06	0.00E+00
Texas	Willacy County	48489	R	1.09E-05	1.09E-05	2.02E-05	2.03E-05	1.88E-05	2.10E-05	2.15E-05	2.15E-05	0.00E+00	1.26E-06	2.18E-06	1.54E-05	0.00E+00
Texas	Williamson County	48491	U	1.02E-04	1.31E-04	1.64E-04	2.19E-04	2.60E-04	3.20E-04	4.68E-04	5.66E-04	8.64E-05	1.32E-04	9.47E-06	3.24E-05	0.00E+00
Texas	Wilson County	48493	U	3.77E-05	3.77E-05	6.27E-05	9.17E-05	1.04E-04	1.25E-04	2.06E-04	2.06E-04	3.05E-05	6.57E-05	2.49E-06	4.93E-06	0.00E+00
Texas	Winkler County	48495	U	3.05E-06	3.05E-06	3.05E-06	1.91E-05	1.67E-05	2.78E-05	2.78E-05	2.78E-05	0.00E+00	9.40E-06	1.74E-06	5.54E-06	0.00E+00

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State	County	FIPS	Urban or Rural	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
Texas	Wise County	48497	R	4.09E-06	4.18E-06	5.49E-06	5.43E-05	7.78E-05	1.22E-04	2.30E-04	2.43E-04	2.63E-05	4.30E-05	2.46E-06	6.01E-06	0.00E+00
Texas	Wood County	48499	R	3.11E-05	3.11E-05	8.33E-05	1.36E-04	1.16E-04	1.50E-04	1.56E-04	1.56E-04	7.62E-05	3.09E-05	2.96E-06	5.60E-06	0.00E+00
Texas	Yoakum County	48501	U	1.82E-06	1.82E-06	1.82E-06	3.23E-06	3.23E-06	4.64E-06	4.64E-06	4.64E-06	0.00E+00	1.74E-07	1.41E-07	2.91E-06	0.00E+00
Texas	Young County	48503	U	1.86E-06	1.86E-06	2.06E-06	1.80E-05	1.79E-05	3.37E-05	3.37E-05	3.37E-05	0.00E+00	4.78E-06	2.21E-06	1.09E-05	0.00E+00
Texas	Zapata County	48505	R	2.05E-06	2.05E-06	2.05E-06	2.22E-06	5.20E-06	1.13E-05	1.13E-05	1.13E-05	0.00E+00	5.06E-07	9.27E-07	3.77E-06	0.00E+00
Texas	Zavala County	48507	U	6.39E-07	6.39E-07	8.04E-07	1.13E-06	1.58E-06	2.36E-06	3.43E-06	3.43E-06	0.00E+00	2.32E-07	5.14E-07	8.34E-07	0.00E+00
Utah	Statewide	N/A	N/A	6.29E-07	4.45E-06	2.72E-04	1.22E-03	1.49E-01	1.87E-02	1.29E-01	2.68E-01	1.48E-01	1.06E-03	1.00E-05	2.58E-06	0.00E+00
Utah	All Urban Counties	N/A	U	5.65E-06	1.15E-04	5.36E-04	3.14E-03	1.68E-01	2.24E-02	1.48E-01	3.38E-01	1.67E-01	1.19E-03	1.12E-05	2.90E-06	0.00E+00
Utah	All Rural Counties	N/A	R	8.46E-08	1.37E-07	3.76E-07	3.55E-06	6.02E-04	3.42E-05	9.81E-05	3.20E-04	5.92E-04	9.17E-06	9.19E-07	1.01E-07	0.00E+00
Utah	Beaver County	49001	R	1.03E-07	1.03E-07	1.03E-07	3.66E-07	3.66E-07	6.29E-07	6.29E-07	6.29E-07	0.00E+00	8.71E-08	2.46E-07	3.23E-08	0.00E+00
Utah	Box Elder County	49003	U	3.40E-04	3.52E-04	4.74E-04	1.11E-01	7.71E-02	1.32E-01	1.48E-01	1.59E-01	7.35E-02	3.63E-03	4.50E-06	8.10E-07	0.00E+00
Utah	Cache County	49005	U	2.34E-04	2.45E-04	2.48E-04	2.61E-04	2.66E-04	2.78E-04	3.20E-04	3.23E-04	0.00E+00	2.59E-04	5.92E-06	6.91E-07	0.00E+00
Utah	Carbon County	49007	R	7.88E-08	7.88E-08	3.23E-05	4.62E-05	6.32E-05	5.34E-05	2.01E-04	2.01E-04	5.73E-05	3.15E-06	2.57E-06	1.11E-07	0.00E+00
Utah	Daggett County	49009	R	1.37E-07	1.37E-07	1.37E-07	1.37E-07	1.37E-07	1.37E-07	1.37E-07	1.37E-07	0.00E+00	7.15E-08	5.35E-08	1.15E-08	0.00E+00
Utah	Davis County	49011	U	2.74E-02	3.03E-02	3.83E-02	8.11E-02	1.19E+00	3.70E-01	2.36E+00	5.34E+00	1.19E+00	2.49E-04	1.07E-05	1.23E-06	0.00E+00
Utah	Duchesne County	49013	R	1.94E-07	1.94E-07	3.69E-07	6.70E-07	1.51E-06	2.64E-06	4.49E-06	4.49E-06	0.00E+00	8.84E-07	5.20E-07	1.01E-07	0.00E+00
Utah	Emery County	49015	R	3.31E-07	3.31E-07	1.82E-05	1.68E-04	1.64E-04	3.10E-04	3.20E-04	3.20E-04	1.64E-04	2.96E-07	2.65E-07	2.27E-08	0.00E+00
Utah	Garfield County	49017	R	1.68E-07	1.68E-07	1.68E-07	2.92E-07	8.33E-06	2.45E-05	2.45E-05	2.45E-05	8.15E-06	7.73E-08	9.37E-08	1.24E-08	0.00E+00
Utah	Grand County	49019	U	2.65E-08	2.65E-08	2.65E-08	4.25E-07	1.24E-06	3.28E-06	3.28E-06	3.28E-06	0.00E+00	9.67E-07	2.10E-07	6.73E-08	0.00E+00
Utah	Iron County	49021	U	2.51E-07	2.51E-07	9.59E-07	1.67E-06	4.01E-06	4.24E-06	1.70E-05	1.70E-05	0.00E+00	2.48E-06	1.44E-06	9.17E-08	0.00E+00
Utah	Juab County	49023	U	1.50E-06	1.50E-06	1.50E-06	1.47E-05	1.47E-05	2.78E-05	2.78E-05	2.78E-05	1.28E-05	1.38E-06	4.12E-07	7.76E-08	0.00E+00
Utah	Kane County	49025	U	2.74E-07	2.74E-07	2.74E-07	5.97E-07	5.97E-07	9.21E-07	9.21E-07	9.21E-07	0.00E+00	2.34E-07	3.22E-07	4.11E-08	0.00E+00
Utah	Millard County	49027	R	4.63E-07	4.63E-07	4.63E-07	3.70E-06	8.11E-06	2.02E-05	2.02E-05	2.02E-05	7.11E-06	6.94E-07	2.51E-07	5.71E-08	0.00E+00
Utah	Morgan County	49029	R	1.43E-02	1.43E-02	1.43E-02	1.61E-02	1.61E-02	1.78E-02	1.78E-02	1.78E-02	1.60E-02	4.09E-05	1.52E-06	2.47E-07	0.00E+00
Utah	Piute County	49031	R	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	0.00E+00	5.24E-08	1.05E-07	4.27E-08	0.00E+00
Utah	Rich County	49033	R	5.05E-07	5.05E-07	5.05E-07	5.05E-07	5.05E-07	5.05E-07	5.05E-07	5.05E-07	0.00E+00	2.88E-07	1.46E-07	7.08E-08	0.00E+00
Utah	Salt Lake County	49035	U	4.82E-04	5.48E-04	7.04E-04	1.25E-02	1.04E-02	1.56E-02	2.02E-02	2.27E-02	8.73E-03	1.62E-03	1.49E-05	5.30E-06	0.00E+00
Utah	San Juan County	49037	R	1.77E-07	1.77E-07	2.63E-07	3.62E-07	3.20E-07	3.76E-07	3.76E-07	3.76E-07	0.00E+00	1.42E-07	1.56E-07	2.18E-08	0.00E+00
Utah	Sanpete County	49039	R	1.08E-06	1.08E-06	3.15E-06	3.39E-06	1.01E-05	1.16E-05	3.15E-05	3.15E-05	9.03E-06	6.51E-07	4.19E-07	4.64E-08	0.00E+00
Utah	Sevier County	49041	R	1.86E-06	1.86E-06	1.92E-06	4.75E-06	3.86E-06	5.28E-06	5.51E-06	5.51E-06	1.29E-06	1.34E-06	1.12E-06	1.15E-07	0.00E+00
Utah	Summit County	49043	R	2.39E-06	2.39E-06	1.67E-05	7.06E-05	5.49E-05	8.66E-05	9.81E-05	9.81E-05	4.93E-06	4.83E-05			

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Estimated Annual Average Ambient Concentrations µg/m3 for Manganese Compounds

State	County	FIPS	Urban or Rural	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
Virginia	Statewide	N/A	N/A	1.03E-04	1.41E-04	2.64E-04	4.88E-04	9.87E-04	1.09E-03	1.97E-03	2.49E-03	4.90E-04	4.80E-04	1.25E-05	3.61E-06	0.00E+00
Virginia	All Urban Counties	N/A	U	1.21E-04	1.67E-04	2.96E-04	5.52E-04	9.93E-04	1.22E-03	2.04E-03	2.52E-03	5.51E-04	4.22E-04	1.56E-05	4.66E-06	0.00E+00
Virginia	All Rural Counties	N/A	R	2.90E-05	6.82E-05	2.01E-04	3.72E-04	9.68E-04	7.89E-04	1.52E-03	2.23E-03	3.02E-04	6.62E-04	2.75E-06	3.64E-07	0.00E+00
Virginia	Accomack County	51001	R	4.15E-06	4.15E-06	5.91E-06	1.27E-05	1.79E-05	1.60E-05	6.82E-05	6.82E-05	0.00E+00	1.65E-05	7.83E-07	6.04E-07	0.00E+00
Virginia	Albemarle County	51003	R	1.52E-04	1.72E-04	2.45E-04	2.80E-04	2.80E-04	3.16E-04	3.59E-04	4.37E-04	8.17E-05	1.94E-04	4.33E-06	6.92E-07	0.00E+00
Virginia	Alleghany County	51005	R	2.21E-04	2.21E-04	2.95E-04	6.26E-04	6.25E-04	7.60E-04	1.22E-03	1.22E-03	5.80E-04	4.22E-05	2.80E-06	2.06E-07	0.00E+00
Virginia	Amelia County	51007	R	5.17E-04	5.17E-04	5.17E-04	5.43E-04	5.43E-04	5.68E-04	5.68E-04	5.68E-04	1.26E-04	4.16E-04	1.10E-06	1.48E-07	0.00E+00
Virginia	Amherst County	51009	R	8.43E-04	8.43E-04	4.19E-03	9.45E-03	1.62E-02	1.06E-02	8.97E-02	8.97E-02	5.98E-03	1.02E-02	3.49E-06	3.66E-07	0.00E+00
Virginia	Appomattox County	51011	R	1.25E-03	1.25E-03	1.25E-03	1.84E-03	1.93E-03	2.70E-03	2.70E-03	2.70E-03	8.17E-04	1.11E-03	1.82E-06	2.19E-07	0.00E+00
Virginia	Arlington County	51013	U	2.59E-04	2.78E-04	3.01E-04	3.37E-04	3.64E-04	3.78E-04	5.60E-04	5.88E-04	1.99E-04	1.27E-04	3.41E-05	3.39E-06	0.00E+00
Virginia	Augusta County	51015	R	5.29E-05	1.05E-04	1.14E-04	2.16E-04	2.08E-04	2.85E-04	2.99E-04	3.99E-04	9.61E-07	2.04E-04	3.08E-06	3.26E-07	0.00E+00
Virginia	Bath County	51017	R	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.11E-04	3.89E-05	5.07E-07	4.58E-08	0.00E+00
Virginia	Bedford County	51019	R	3.91E-04	4.17E-04	4.86E-04	6.16E-04	6.98E-04	7.94E-04	1.14E-03	1.24E-03	1.85E-04	5.09E-04	3.29E-06	3.86E-07	0.00E+00
Virginia	Bland County	51021	R	3.96E-04	3.96E-04	3.96E-04	4.50E-04	4.50E-04	5.05E-04	5.05E-04	5.05E-04	2.38E-05	4.24E-04	2.32E-06	9.79E-08	0.00E+00
Virginia	Botetourt County	51023	R	4.25E-04	4.25E-04	4.39E-04	5.84E-04	1.05E-03	9.33E-04	2.89E-03	2.89E-03	8.41E-04	2.09E-04	3.98E-06	3.23E-07	0.00E+00
Virginia	Brunswick County	51025	R	1.14E-04	1.14E-04	1.14E-04	1.53E-04	1.68E-04	2.37E-04	2.37E-04	2.37E-04	3.27E-05	1.33E-04	2.00E-06	1.56E-07	0.00E+00
Virginia	Buchanan County	51027	R	1.66E-05	1.66E-05	1.78E-05	3.13E-05	6.16E-05	1.23E-04	1.73E-04	1.73E-04	2.60E-06	5.65E-05	2.00E-06	5.75E-07	0.00E+00
Virginia	Buckingham County	51029	R	4.38E-04	4.38E-04	4.38E-04	6.90E-04	6.90E-04	9.43E-04	9.43E-04	9.43E-04	2.12E-04	4.77E-04	8.73E-07	1.90E-07	0.00E+00
Virginia	Campbell County	51031	R	4.90E-04	4.90E-04	7.21E-04	8.20E-04	1.10E-03	1.10E-03	2.36E-03	2.36E-03	4.33E-04	6.65E-04	3.13E-06	6.22E-07	0.00E+00
Virginia	Caroline County	51033	R	5.34E-04	5.34E-04	7.24E-04	8.76E-04	1.10E-03	1.52E-03	2.09E-03	2.09E-03	1.37E-04	9.63E-04	3.62E-06	3.50E-07	0.00E+00
Virginia	Carroll County	51035	R	2.81E-04	2.81E-04	3.79E-04	5.52E-04	5.60E-04	7.05E-04	8.93E-04	8.93E-04	1.33E-04	4.24E-04	2.68E-06	1.54E-07	0.00E+00
Virginia	Charles City County	51036	U	7.78E-04	7.78E-04	7.78E-04	8.74E-04	8.68E-04	9.52E-04	9.52E-04	9.52E-04	7.35E-04	1.29E-04	2.89E-06	5.80E-07	0.00E+00
Virginia	Charlotte County	51037	R	2.53E-04	2.53E-04	2.53E-04	3.08E-04	3.12E-04	3.76E-04	3.76E-04	3.76E-04	2.30E-05	2.89E-04	7.95E-07	1.27E-07	0.00E+00
Virginia	Chesterfield County	51041	U	4.48E-04	4.69E-04	5.59E-04	7.49E-04	8.28E-04	9.63E-04	1.44E-03	1.71E-03	5.42E-04	2.76E-04	9.09E-06	1.26E-06	0.00E+00
Virginia	Clarke County	51043	U	2.00E-04	2.00E-04	2.00E-04	2.75E-04	3.22E-04	4.90E-04	4.90E-04	4.90E-04	4.69E-06	3.14E-04	2.82E-06	3.14E-07	0.00E+00
Virginia	Craig County	51045	R	3.35E-04	3.35E-04	3.35E-04	3.35E-04	3.35E-04	3.35E-04	3.35E-04	3.35E-04	1.84E-04	1.50E-04	1.16E-06	1.40E-07	0.00E+00
Virginia	Culpeper County	51047	U	2.98E-04	2.98E-04	3.65E-04	4.61E-04	6.16E-04	7.57E-04	1.20E-03	1.20E-03	1.00E-05	6.03E-04	1.83E-06	2.70E-07	0.00E+00
Virginia	Cumberland County	51049	R	5.69E-04	5.69E-04	5.69E-04	8.16E-04	8.16E-04	1.06E-03	1.06E-03	1.06E-03	2.04E-04	6.11E-04	6.71E-07	1.17E-07	0.00E+00
Virginia	Dickenson County	51051	R	4.31E-05	4.31E-05	4.47E-05	4.86E-05	6.56E-05	8.65E-05	1.22E-04	1.22E-04	4.53E-06	5.89E-05	1.81E-06	2.82E-07	0.00E+00
Virginia	Dinwiddie County	51053	U	5.86E-04	5.86E-04	6.39E-04	1.05E-03	1.23E-03	1.98E-03	2.08E-03	2.08E-03	7.39E-04	4.85E-04	4.72E-06	6.27E-07	0.00E+00
Virginia	Essex County	51057	R	2.51E-04	2.51E-04	2.51E-04	7.35E-04	6.20E-04	8.76E-04	8.76E-04	8.76E-04	2.54E-04	3.65E-04	9.07E-07	2.7	

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State	County	FIPS	Urban or Rural	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
Virginia	Lee County	51105	R	3.97E-05	3.97E-05	4.97E-05	6.65E-05	1.63E-04	3.02E-04	4.53E-04	4.53E-04	1.30E-04	3.04E-05	2.24E-06	2.35E-07	0.00E+00
Virginia	Loudoun County	51107	U	8.25E-05	9.30E-05	9.99E-05	1.19E-04	1.32E-04	1.25E-04	1.42E-04	3.71E-04	5.15E-05	6.91E-05	9.18E-06	1.80E-06	0.00E+00
Virginia	Louisa County	51109	R	2.21E-04	2.21E-04	3.16E-04	3.77E-04	4.29E-04	6.08E-04	6.25E-04	6.25E-04	1.14E-04	3.12E-04	2.45E-06	2.01E-07	0.00E+00
Virginia	Lunenburg County	51111	R	2.65E-04	2.65E-04	2.65E-04	3.70E-04	3.79E-04	5.03E-04	5.03E-04	5.03E-04	0.00E+00	3.78E-04	7.22E-07	1.13E-07	0.00E+00
Virginia	Madison County	51113	R	4.61E-04	4.61E-04	4.61E-04	1.67E-03	1.67E-03	2.87E-03	2.87E-03	2.87E-03	2.49E-05	1.64E-03	1.36E-06	1.52E-07	0.00E+00
Virginia	Mathews County	51115	U	1.80E-04	1.80E-04	1.80E-04	2.89E-04	2.79E-04	3.68E-04	3.68E-04	3.68E-04	2.38E-04	3.90E-05	1.65E-06	5.58E-07	0.00E+00
Virginia	Mecklenburg County	51117	R	1.12E-04	1.12E-04	1.20E-04	1.41E-04	1.74E-04	2.20E-04	3.18E-04	3.18E-04	7.33E-05	9.87E-05	1.87E-06	3.70E-07	0.00E+00
Virginia	Middlesex County	51119	R	3.68E-04	3.68E-04	3.88E-04	4.39E-04	4.60E-04	4.53E-04	6.51E-04	6.51E-04	2.82E-04	1.76E-04	1.29E-06	2.80E-07	0.00E+00
Virginia	Montgomery County	51121	U	1.35E-04	1.40E-04	1.67E-04	2.16E-04	2.44E-04	3.53E-04	3.67E-04	4.18E-04	6.44E-05	1.72E-04	6.15E-06	8.58E-07	0.00E+00
Virginia	Nelson County	51125	R	3.20E-04	3.20E-04	3.20E-04	3.95E-04	4.05E-04	4.99E-04	4.99E-04	4.99E-04	1.07E-04	2.95E-04	2.06E-06	2.45E-07	0.00E+00
Virginia	New Kent County	51127	U	7.58E-04	7.58E-04	7.58E-04	9.10E-04	8.99E-04	1.03E-03	1.03E-03	1.03E-03	5.77E-04	3.18E-04	3.65E-06	4.97E-07	0.00E+00
Virginia	Northampton County	51131	R	2.53E-06	2.53E-06	2.56E-06	3.21E-06	2.16E-05	4.06E-05	7.75E-05	7.75E-05	1.84E-05	1.94E-06	7.01E-07	6.03E-07	0.00E+00
Virginia	Northumberland County	51133	R	1.77E-06	1.77E-06	1.36E-05	3.45E-05	4.41E-05	7.46E-05	1.06E-04	1.06E-04	0.00E+00	4.30E-05	8.23E-07	3.10E-07	0.00E+00
Virginia	Notaway County	51135	R	1.66E-03	1.66E-03	1.66E-03	2.43E-03	2.18E-03	2.44E-03	2.44E-03	2.44E-03	0.00E+00	2.17E-03	1.32E-06	2.31E-07	0.00E+00
Virginia	Orange County	51137	R	6.72E-04	6.72E-04	1.21E-03	1.81E-03	1.84E-03	2.47E-03	3.09E-03	3.09E-03	7.56E-06	1.84E-03	1.44E-06	1.81E-07	0.00E+00
Virginia	Page County	51139	R	1.32E-04	1.32E-04	1.42E-04	1.55E-04	1.62E-04	1.69E-04	2.11E-04	2.11E-04	9.76E-05	6.16E-05	2.43E-06	2.87E-07	0.00E+00
Virginia	Patrick County	51141	R	3.04E-04	3.04E-04	3.04E-04	3.45E-04	3.76E-04	4.79E-04	4.79E-04	4.79E-04	1.56E-04	2.19E-04	1.20E-06	1.30E-07	0.00E+00
Virginia	Pittsylvania County	51143	R	1.16E-04	2.64E-04	3.10E-04	4.41E-04	4.45E-04	4.85E-04	6.98E-04	8.42E-04	2.23E-04	2.20E-04	1.74E-06	2.32E-07	0.00E+00
Virginia	Powhatan County	51145	U	1.43E-04	1.43E-04	2.71E-04	2.96E-04	2.90E-04	3.51E-04	3.88E-04	3.88E-04	1.62E-04	1.26E-04	2.03E-06	3.14E-07	0.00E+00
Virginia	Prince Edward County	51147	R	1.92E-03	1.92E-03	1.92E-03	2.23E-03	3.61E-03	6.68E-03	6.68E-03	6.68E-03	1.16E-04	3.49E-03	1.19E-06	1.71E-07	0.00E+00
Virginia	Prince George County	51149	U	7.39E-04	7.39E-04	8.66E-04	9.85E-04	1.15E-03	1.32E-03	1.84E-03	1.84E-03	1.01E-03	1.32E-04	1.16E-05	1.08E-06	0.00E+00
Virginia	Prince William County	51153	U	6.85E-05	8.12E-05	1.10E-04	1.50E-04	1.82E-04	2.25E-04	3.84E-04	4.08E-04	1.29E-04	3.81E-05	1.35E-05	1.44E-06	0.00E+00
Virginia	Pulaski County	51155	R	1.28E-04	1.28E-04	1.33E-04	1.47E-04	1.98E-04	2.62E-04	3.36E-04	3.36E-04	4.30E-05	1.50E-04	4.32E-06	3.94E-07	0.00E+00
Virginia	Rappahannock County	51157	R	2.25E-04	2.25E-04	2.25E-04	3.01E-04	3.01E-04	3.76E-04	3.76E-04	3.76E-04	2.66E-05	2.72E-04	1.68E-06	1.35E-07	0.00E+00
Virginia	Richmond County	51159	R	5.83E-04	5.83E-04	5.83E-04	7.14E-04	7.14E-04	8.44E-04	8.44E-04	8.44E-04	3.01E-04	4.11E-04	1.02E-06	3.04E-07	0.00E+00
Virginia	Roanoke County	51161	R	5.78E-04	7.11E-04	8.63E-04	1.18E-03	1.29E-03	1.72E-03	2.00E-03	2.16E-03	9.67E-05	1.18E-03	6.99E-06	1.22E-06	0.00E+00
Virginia	Rockbridge County	51163	R	2.21E-04	2.21E-04	3.66E-04	6.09E-04	5.80E-04	7.93E-04	8.79E-04	8.79E-04	3.24E-04	2.53E-04	2.48E-06	1.60E-07	0.00E+00
Virginia	Rockingham County	51165	R	2.51E-05	2.90E-05	6.45E-05	1.94E-04	2.22E-04	2.72E-04	6.06E-04	7.73E-04	1.85E-05	1.99E-04	3.68E-06	4.22E-07	0.00E+00
Virginia	Russell County	51167	R	2.43E-04	2.43E-04	2.45E-04	4.87E-04	5.74E-04	8.37E-04	1.15E-03	1.15E-03	1.75E-04	3.97E-04	2.28E-06	2.85E-07	0.00E+00
Virginia	Scott County	51169	U	6.45E-04	6.45E-04	8.12E-04	1.21E-03	1.27E-03	1.63E-03	2.13E-03	2.13E-03	8.90E-04	3.78E-04	3.28E-06	3.19E-07	0.00E+00
Virginia	Shenandoah County	51171	R	4.38E-05	4.38E-05	6.06E-05	8.33E-05	2.49E-04	3.83E-04	8.96E-04	8.96E-04	2.18E-04	2.66E-05	4.17E-06	1.96E-07	0.00E+00
Virginia	Smyth County	51173	R	1.18E-03	1.18E-03	1.19E-03	1.46E-03	1.63E-03	1.64E-03	3.02E-03	3.02E-03	2.66E-04	1.36E-03	3.10E-06	2.13E-07	0.00E+00
Virginia	Southampton County	51175	R	2.14E-04	2.14E-04	2.43E-04	2.91E-04	3.92E-04	5.46E-04	6.68E-04	6.68E-04	3.67E-04	2.44E-05	8.96E-07	1.90E-07	0.00E+00
Virginia	Spotsylvania County	51177	U	5.53E-04	6.09E-04	7.97E-04	9.29E-04	9.66E-04	1.02E-03	1.44E-03	1.80E-03	7.11E-05	8.87E-04	7.55E-06	6.92E-07	0.00E+00
Virginia	Stafford County	51179	U	1.25E-04	1.28E-04	1.49E-04	1.76E-04	2.76E-04	4.35E-04	4.52E-04	5.92E-04	9.16E-05	1.76E-04	7.24E-06	6.53E-07	0.00E+00
Virginia	Surry County	51181	R	4.37E-04	4.37E-04	4.37E-04	4.98E-04	4.98E-04	5.59E-04	5.59E-04	5.59E-04	3.84E-04	1.12E-04	9.98E-07	4.05E-07	0.00E+00
Virginia	Sussex County	51183	R	3.08E-04	3.08E-04	3.13E-04	3.45E-04	4.55E-04	5.97E-04	8.22E-04	8.22E-04	3.81E-04	7.24E-05	1.74E-06	2.46E-07	0.00E+00
Virginia	Tazewell County	51185	R	2.14E-04	2.19E-04	2.25E-04	2.70E-04	4.53E-04	3.93E-04	4.51E-04	2.09E-03	2.08E-05	4.29E-04	2.87E-06	2.86E-07	0.00E+00
Virginia	Warren County	51187	U	8.43E-05	8.43E-05	9.12E-05	1.14E-04	1.15E-04	1.34E-04	1.58E-04	1.58E-04	9.55E-06	9.90E-05	5.84E-06	7.46E-07	0.00E+00
Virginia	Washington County	51191	U	1.83E-03	2.09E-03	2.83E-03	3.52E-03	9.68E-03	8.27E-03	3.26E-02	5.38E-02	1.81E-04	9.49E-03	4.38E-06	3.07E-07	0.00E+00
Virginia	Westmoreland County	51193	R	1.30E-04	1.30E-04	1.50E-04	2.03E-04	1.99E-04	2.48E-04	2.60E-04	2.60E-04	9.24E-05	1.05E-04	1.61E-06	4.12E-07	0.00E+00
Virginia	Wise County	51195	R	6.09E-05	6.40E-05	1.19E-04	2.76E-04	3.86E-04	5.80E-04	6.24E-04	1.15E-03	1.07E-04	2.76E-04	2.56E-06	3.32E-07	0.00E+00
Virginia	Wythe County	51197	R	3.01E-04	3.01E-04	3.43E-04	4.19E-04	4.64E-04	5.84E-04	7.17E-04	7.17E-04	5.11E-05	4.09E-04	3.76E-06	1.97E-07	0.00E+00
Virginia	York County	51199	U	2.32E-04	3.12E-04	3.43E-04	3.85E-04	3.87E-04	4.07E-04	4.53E-04	6.30E-04	3.03E-04	7.40E-05	6.45E-06	2.79E-06	0.00E+00
Virginia	Alexandria city	51510	U	3.12E-04	3.24E-04	3.38E-04	3.68E-04	4.05E-04	4.32E-04	5.86E-04	6.01E-04	2.54E-04	1.13E-04	3.60E-05	2.31E-06	0.00E+00
Virginia	Bedford city	51515	U	6.91E-04	6.91E-04	6.91E-04	6.91E-04	6.91E-04	6.91E-04	6.91E-04	6.91E-04	1.59E-04	5.27E-04	4.06E-06	1.10E-06	0.00E+00
Virginia	Bristol city	51520	U	1.54E-03	1.54E-03	1.80E-03	2.65E-03	2.53E-03	3.26E-03	3.27E-03	3.27E-03	4.66E-04	2.04E-03	1.81E-05	1.19E-06	0.00E+00
Virginia	Buena Vista city	51530	U	4.77E-04	4.77E-04	4.77E-04	4.77E-04	4.77E-04	4.77E-04	4.77E-04	4.77E-04	1.49E-04	3.25E-04	2.93E-06	2.89E-07	0.00E+00
Virginia	Charlottesville city	51540	U	2.82E-04	2.96E-04	3.06E-04	3.22E-04	3.29E-04	3.50E-04	3.76E-04	4.27E-04	1.01E-04	2.16E-04	1.09E-05	1.76E-06	0.00E+00
Virginia	Chesapeake city	51550	U	3.26E-04	3.75E-04	5.21E-04	6.82E-04	1.60E-03	2.64E-03	3.64E-03	4.40E-03	1.01E-03	5.80E-04	1.20E-05	4.02E-06	0.00E+00
Virginia	Clifton Forge city	51560	U	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.14E-03	4.01E-05	8.55E-06	1.37E-06	0.00E+00
Virginia	Colonial Heights city	51570	U	1.97E-03	1.97E-03	2.10E-03	2.13E-03	2.16E-03	2.22E-03	2.37E-03	2.37E-03	1.72E-03	4.18E-04	2.22E-05	1.06E-06	0.00E+00
Virginia	Covington city	51580	U	1.39E-03	1.39E-03	1.39E-03	2.44E-03	2.44E-03	3.49E-03	3.49E-03	3.49E-03	2.38E-03	6.26E-05	1.49E-06	8.14E-07	0.00E+00
Virginia	Danville city	51590	U	3.91E-04	4.18E-04	4.28E-04	4.46E-04	5.76E-04	4.65E-04	5.05E-04	2.27E-03	3.75E-04	1.91E-04	9.29E-06	6.95E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Virginia	Emporia city	51595	U	5.75E-04	5.75E-04	5.75E-04	7.85E-04	7.85E-04	9.96E-04	9.96E-04	9.96E-04	7.21E-04	5.96E-05	4.30E-06	9.08E-07	0.00E+00
Virginia	Fairfax city	51600	U	2.01E-04	2.01E-04	2.05E-04	2.07E-04	2.13E-04	2.15E-04	2.37E-04	2.37E-04	1.09E-04	8.50E-05	1.61E-05	2.97E-06	0.00E+00
Virginia	Falls Church city	51610	U	2.62E-04	2.62E-04	2.62E-04	2.78E-04	2.72E-04	2.78E-04	2.78E-04	2.78E-04	1.59E-04	8.84E-05	2.07E-05	3.98E-06	0.00E+00
Virginia	Franklin city	51620	U	8.30E-04	8.30E-04	8.30E-04	2.44E-03	2.44E-03	4.06E-03	4.06E-03	4.06E-03	2.41E-03	3.16E-05	1.51E-06	3.05E-07	0.00E+00
Virginia	Fredericksburg city	51630	U	5.23E-04	5.23E-04	6.56E-04	6.59E-04	6.80E-04	7.80E-04	7.81E-04	7.81E-04	6.60E-05	6.02E-04	1.07E-05	1.02E-06	0.00E+00
Virginia	Galax city	51640	U	2.26E-03	2.26E-03	2.26E-03	2.26E-03	2.26E-03	2.26E-03	2.26E-03	2.26E-03	2.07E-04	2.05E-03	4.02E-06	6.53E-07	0.00E+00
Virginia	Hampton city	51650	U	4.34E-04	4.44E-04	4.70E-04	4.97E-04	5.40E-04	5.80E-04	7.24E-04	7.97E-04	4.78E-04	4.31E-05	1.14E-05	7.23E-06	0.00E+00
Virginia	Harrisonburg city	51660	U	1.45E-04	1.45E-04	1.66E-04	2.00E-04	2.02E-04	2.46E-04	2.58E-04	2.58E-04	2.06E-06	1.84E-04	1.49E-05	9.16E-07	0.00E+00
Virginia	Hopewell city	51670	U	9.70E-04	9.70E-04	9.77E-04	1.03E-03	1.05E-03	1.12E-03	1.18E-03	1.18E-03	8.89E-04	1.33E-04	2.03E-05	7.79E-06	0.00E+00
Virginia	Lexington city	51678	U	8.10E-04	8.10E-04	8.10E-04	8.10E-04	8.10E-04	8.10E-04	8.10E-04	8.10E-04	5.88E-04	2.17E-04	4.45E-06	2.84E-07	0.00E+00
Virginia	Lynchburg city	51680	U	1.19E-03	1.29E-03	2.21E-03	3.30E-03	5.01E-03	6.80E-03	1.29E-02	1.34E-02	2.56E-03	2.43E-03	1.31E-05	1.02E-06	0.00E+00
Virginia	Manassas city	51683	U	1.02E-04	1.02E-04	1.02E-04	1.11E-04	1.25E-04	1.49E-04	1.77E-04	1.77E-04	5.27E-05	5.89E-05	1.19E-05	1.93E-06	0.00E+00
Virginia	Manassas Park city	51685	U	1.01E-04	1.01E-04	1.01E-04	1.14E-04	1.14E-04	1.26E-04	1.26E-04	1.26E-04	5.62E-05	4.41E-05	1.17E-05	1.73E-06	0.00E+00
Virginia	Martinsville city	51690	U	1.30E-03	1.30E-03	1.32E-03	1.59E-03	1.67E-03	2.03E-03	2.09E-03	2.09E-03	4.10E-04	1.25E-03	4.54E-06	9.19E-07	0.00E+00
Virginia	Newport News city	51700	U	2.26E-04	2.90E-04	3.23E-04	4.16E-04	7.17E-04	6.28E-04	1.47E-03	2.65E-03	6.52E-04	4.56E-05	1.02E-05	9.33E-06	0.00E+00
Virginia	Norfolk city	51710	U	6.31E-04	7.25E-04	8.73E-04	1.22E-03	1.42E-03	1.74E-03	2.34E-03	2.84E-03	9.75E-04	3.96E-04	1.60E-05	2.97E-05	0.00E+00
Virginia	Norton city	51720	U	6.63E-04	6.63E-04	6.63E-04	6.63E-04	6.63E-04	6.63E-04	6.63E-04	6.63E-04	1.67E-04	4.91E-04	4.55E-06	4.69E-07	0.00E+00
Virginia	Petersburg city	51730	U	1.54E-03	1.70E-03	1.82E-03	1.87E-03	1.89E-03	2.04E-03	2.07E-03	2.13E-03	1.43E-03	4.28E-04	2.42E-05	1.44E-06	0.00E+00
Virginia	Poquoson city	51735	U	3.72E-04	3.72E-04	3.84E-04	4.00E-04	4.00E-04	4.16E-04	4.27E-04	4.27E-04	3.61E-04	2.89E-05	6.12E-06	3.91E-06	0.00E+00
Virginia	Portsmouth city	51740	U	2.72E-04	2.94E-04	3.56E-04	4.52E-04	7.20E-04	6.29E-04	7.76E-04	8.42E-04	3.20E-04	3.71E-04	1.69E-05	1.22E-05	0.00E+00
Virginia	Radford city	51750	U	2.77E-04	2.77E-04	2.77E-04	4.50E-04	4.50E-04	6.24E-04	6.24E-04	6.24E-04	3.20E-04	1.25E-04	4.68E-06	5.32E-07	0.00E+00
Virginia	Richmond city	51760	U	9.69E-04	1.01E-03	1.26E-03	1.55E-03	1.55E-03	1.86E-03	2.10E-03	2.23E-03	1.03E-03	4.85E-04	3.08E-05	2.59E-06	0.00E+00
Virginia	Roanoke city	51770	U	1.33E-03	1.35E-03	1.89E-03	2.46E-03	3.15E-03	3.48E-03	6.05E-03	7.17E-03	9.26E-05	3.04E-03	1.77E-05	2.22E-06	0.00E+00
Virginia	Salem city	51775	U	1.76E-03	1.76E-03	2.28E-03	3.15E-03	2.89E-03	3.44E-03	3.81E-03	3.81E-03	1.22E-04	2.75E-03	1.14E-05	1.42E-06	0.00E+00
Virginia	Staunton city	51790	U	9.41E-05	9.41E-05	9.90E-05	1.38E-04	1.38E-04	1.52E-04	2.07E-04	2.07E-04	3.07E-07	1.28E-04	7.91E-06	1.33E-06	0.00E+00
Virginia	Suffolk city	51800	U	3.93E-04	4.30E-04	4.95E-04	5.82E-04	5.98E-04	6.32E-04	8.05E-04	9.80E-04	4.80E-04	1.13E-04	3.10E-06	1.45E-06	0.00E+00
Virginia	Virginia Beach city	51810	U	4.32E-04	5.49E-04	8.45E-04	1.08E-03	1.13E-03	1.42E-03	1.85E-03	1.96E-03	9.78E-04	1.39E-04	1.43E-05	2.63E-06	0.00E+00
Virginia	Waynesboro city	51820	U	1.54E-04	1.54E-04	2.09E-04	3.00E-04	4.97E-04	9.10E-04	9.11E-04	9.11E-04	1.57E-06	4.82E-04	1.25E-05	1.20E-06	0.00E+00
Virginia	Williamsburg city	51830	U	5.20E-04	5.20E-04	5.20E-04	5.49E-04	5.62E-04	6.15E-04	6.15E-04	6.15E-04	3.31E-04	2.24E-04	5.07E-06	1.00E-06	0.00E+00
Virginia	Winchester city	51840	U	1.87E-04	1.87E-04	1.96E-04	2.35E-04	2.54E-04	2.81E-04	3.68E-04	3.68E-04	0.00E+00	2.41E-04	1.09E-05	1.47E-06	0.00E+00
Washington	Statewide	N/A	N/A	1.88E-05	5.22E-05	1.54E-04	4.06E-04	9.19E-04	8.71E-04	2.05E-03	3.12E-03	2.31E-04	6.67E-04	1.38E-05	7.36E-06	0.00E+00
Washington	All Urban Counties	N/A	U	5.67E-05	9.03E-05	2.05E-04	4.54E-04	1.01E-03	9.78E-04	2.15E-03	3.25E-03	2.55E-04	7.27E-04	1.54E-05	8.28E-06	0.00E+00
Washington	All Rural Counties	N/A	R	4.22E-07	1.02E-06	1.03E-05	5.65E-05	3.02E-04	2.18E-04	6.61E-04	9.60E-04	5.72E-05	2.42E-04	1.88E-06	7.74E-07	0.00E+00
Washington	Adams County	53001	R	7.38E-07	7.38E-07	1.85E-06	6.66E-06	5.00E-06	7.66E-06	8.10E-06	8.10E-06	0.00E+00	3.88E-06	6.56E-07	4.68E-07	0.00E+00
Washington	Asotin County	53003	R	2.28E-04	2.28E-04	1.17E-03	4.72E-03	3.72E-03	5.57E-03	5.88E-03	5.88E-03	0.00E+00	3.71E-03	4.80E-06	1.19E-06	0.00E+00
Washington	Benton County	53005	U	6.35E-06	6.49E-06	4.27E-05	7.36E-05	6.58E-05	8.98E-05	9.65E-05	1.06E-04	3.93E-05	1.86E-05	6.78E-06	1.14E-06	0.00E+00
Washington	Chelan County	53007	U	1.20E-06	3.21E-06	2.42E-05	9.39E-05	9.96E-05	1.39E-04	1.73E-04	3.27E-04	2.79E-07	9.73E-05	1.52E-06	5.53E-07	0.00E+00
Washington	Cllallam County	53009	R	3.72E-07	1.17E-05	1.86E-05	4.73E-05	1.89E-04	1.46E-04	6.61E-04	7.50E-04	1.10E-04	7.46E-05	1.79E-06	2.77E-06	0.00E+00
Washington	Clark County	53011	U	1.03E-03	1.17E-03	1.66E-03	2.32E-03	2.92E-03	3.70E-03	5.74E-03	7.09E-03	1.45E-03	1.44E-03	1.56E-05	1.42E-05	0.00E+00
Washington	Columbia County	53013	R	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	0.00E+00	1.31E-07	4.86E-08	1.23E-07	0.00E+00
Washington	Cowlitz County	53015	U	3.79E-04	3.92E-04	7.10E-04	1.03E-03	1.44E-03	2.08E-03	2.80E-03	3.03E-03	1.37E-03	3.88E-05	7.24E-06	2.20E-05	0.00E+00
Washington	Douglas County	53017	R	4.92E-07	4.92E-07	3.25E-05	8.99E-05	6.83E-05	9.73E-05	1.07E-04	1.07E-04	9.72E-07	6.45E-05	2.30E-06	5.62E-07	0.00E+00
Washington	Ferry County	53019	R	1.19E-07	1.19E-07	1.19E-07	6.38E-05	5.23E-05	9.29E-05	9.29E-05	9.29E-05	1.56E-05	3.66E-05	6.46E-08	3.24E-08	0.00E+00
Washington	Franklin County	53021	U	1.60E-06	1.54E-05	3.95E-05	6.33E-05	6.08E-05	7.93E-05	1.00E-04	1.05E-04	4.07E-05	1.38E-05	5.18E-06	1.12E-06	0.00E+00
Washington	Garfield County	53023	R	1.63E-04	1.63E-04	1.63E-04	2.53E-04	2.53E-04	3.43E-04	3.43E-04	3.43E-04	0.00E+00	2.53E-04	2.88E-07	5.63E-07	0.00E+00
Washington	Grant County	53025	R	4.24E-07	1.02E-06	1.50E-06	2.26E-06	5.13E-06	5.37E-06	1.55E-05	2.17E-05	3.77E-08	3.01E-06	1.69E-06	3.85E-07	0.00E+00
Washington	Grays Harbor County	53027	U	4.32E-07	4.63E-05	1.08E-04	1.69E-04	1.94E-04	2.47E-04	4.62E-04	4.79E-04	3.85E-05	1.51E-04	1.00E-06	3.51E-06	0.00E+00
Washington	Island County	53029	U	3.68E-05	4.08E-05	5.71E-05	7.66E-05	1.24E-04	1.02E-04	3.71E-04	3.96E-04	2.48E-05	9.34E-05	3.87E-06	1.50E-06	0.00E+00
Washington	Jefferson County	53031	R	1.20E-06	1.20E-06	3.00E-05	7.95E-05	1.04E-04	1.57E-04	3.80E-04	3.80E-04	6.37E-06	9.50E-05	2.07E-06	8.04E-07	0.00E+00
Washington	King County	53033	U	2.01E-04	2.67E-04	4.48E-04	6.56E-04	1.39E-03	1.28E-03	2.62E-03	3.85E-03	7.08E-05	1.28E-03	2.50E-05	1.26E-05	0.00E+00
Washington	Kitsap County	53035	U	1.43E-04	1.74E-04	2.86E-04	4.08E-04	6.96E-04	6.56E-04	1.08E-03	1.58E-03	1.24E-05	6.72E-04	9.07E-06	2.68E-06	0.00E+00
Washington	Kittitas County	53037	R	3.91E-06	3.91E-06	9.33E-06	1.53E-05	1.62E-05	2.46E-05	2.75E-05	2.75E-05	1.79E-06	1.04E-05	3.71E-06	3.47E-07	0.00E+00
Washington	Klickitat County	53039	R	8.58E-05	8.58E-05	8.58E-05	1.16E-04	1.27E-04	1.80E-04	1.80E-04	1.80E-04	0.00E+00	1.26E-04	4.40E-07	3.55E-07	0.00E+00
Washington	Lewis County	53041	R	2.31E-05	3.84E-05	7.44E-05	2.33E-04	3.59E-04	5.90E-04	7.73E-04	1.12E-03	5.44E-05	3.01E-04	3.44E-06	6.35E-07	0.00E+00

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State	County	FIPS	Urban or Rural	Percentile Distribution of Ambient Concentrations Across Census Tracts									Contribution to Average from ...				
				5th	10th	25th	Median	Average	75th	90th	95th	Major	Area and Other	Onroad Mobile	Nonroad Mobile	Estimated Background	
Washington	Lincoln County	53043	R	3.36E-07	3.36E-07	4.83E-07	6.57E-07	1.70E-06	2.91E-06	5.14E-06	5.14E-06	0.00E+00	1.14E-06	2.98E-07	2.60E-07	0.00E+00	
Washington	Mason County	53045	R	7.64E-05	7.72E-05	8.88E-05	1.73E-04	3.73E-04	3.65E-04	4.09E-04	2.56E-03	3.09E-04	6.04E-05	3.42E-06	5.09E-07	0.00E+00	
Washington	Okanogan County	53047	R	1.52E-07	2.87E-07	4.34E-07	8.22E-06	3.38E-05	5.60E-05	1.18E-04	1.63E-04	0.00E+00	3.34E-05	3.32E-07	5.72E-08	0.00E+00	
Washington	Pacific County	53049	R	3.87E-05	3.87E-05	5.11E-05	1.27E-04	1.68E-04	3.26E-04	3.69E-04	3.69E-04	1.80E-05	1.49E-04	4.29E-07	2.64E-07	0.00E+00	
Washington	Pend Oreille County	53051	R	2.82E-07	2.82E-07	5.66E-05	1.09E-04	3.22E-04	4.86E-04	9.60E-04	9.60E-04	6.96E-06	3.15E-04	4.38E-07	8.88E-08	0.00E+00	
Washington	Pierce County	53053	U	7.34E-05	8.54E-05	1.47E-04	2.28E-04	3.63E-04	3.57E-04	8.36E-04	1.09E-03	1.59E-05	3.25E-04	1.30E-05	8.76E-06	0.00E+00	
Washington	San Juan County	53055	R	1.45E-05	1.45E-05	2.23E-05	3.44E-05	4.80E-05	7.36E-05	1.09E-04	1.09E-04	3.68E-05	9.24E-06	4.70E-07	1.47E-06	0.00E+00	
Washington	Skagit County	53057	U	2.81E-05	3.12E-05	9.63E-05	1.19E-04	1.82E-04	1.64E-04	5.46E-04	5.68E-04	9.37E-05	6.13E-05	4.30E-06	2.30E-05	0.00E+00	
Washington	Skamania County	53059	R	1.08E-07	1.08E-07	1.29E-04	1.54E-04	2.38E-04	2.18E-04	6.88E-04	6.88E-04	4.81E-05	1.88E-04	9.29E-07	4.91E-07	0.00E+00	
Washington	Snohomish County	53061	U	6.82E-05	1.18E-04	1.94E-04	4.43E-04	4.60E-04	5.89E-04	7.85E-04	8.90E-04	6.43E-05	3.76E-04	1.59E-05	3.88E-06	0.00E+00	
Washington	Spokane County	53063	U	9.40E-05	1.43E-04	2.88E-04	4.09E-04	7.74E-04	8.04E-04	1.66E-03	2.80E-03	1.47E-04	6.14E-04	1.20E-05	1.18E-06	0.00E+00	
Washington	Stevens County	53065	R	6.25E-07	5.17E-06	2.71E-05	3.73E-05	1.90E-04	2.46E-04	6.80E-04	8.77E-04	3.91E-05	1.50E-04	8.02E-07	1.69E-07	0.00E+00	
Washington	Thurston County	53067	U	1.60E-04	2.15E-04	2.89E-04	3.63E-04	3.71E-04	4.24E-04	4.76E-04	5.77E-04	1.35E-04	2.26E-04	8.27E-06	1.99E-06	0.00E+00	
Washington	Wahkiakum County	53069	R	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	4.82E-04	1.17E-04	5.58E-07	1.44E-06	0.00E+00	
Washington	Walla Walla County	53071	U	2.48E-05	2.78E-05	3.37E-05	3.50E-05	4.47E-05	4.22E-05	4.27E-05	1.40E-04	3.67E-05	4.15E-06	3.09E-06	7.34E-07	0.00E+00	
Washington	Whatcom County	53073	U	6.83E-05	7.42E-05	1.75E-04	3.32E-04	3.11E-03	1.21E-03	3.06E-03	5.13E-03	2.68E-03	4.20E-04	7.00E-06	5.32E-06	0.00E+00	
Washington	Whitman County	53075	U	2.38E-05	1.23E-04	2.85E-04	1.29E-03	9.78E-04	1.46E-03	1.68E-03	1.79E-03	0.00E+00	9.75E-04	2.06E-06	9.90E-07	0.00E+00	
Washington	Yakima County	53077	U	6.50E-06	2.22E-05	6.26E-05	1.46E-04	2.42E-04	2.60E-04	4.09E-04	1.29E-03	1.51E-04	8.54E-05	4.91E-06	7.79E-07	0.00E+00	
West Virginia	Statewide	N/A	N/A	2.99E-05	4.30E-05	1.23E-04	3.74E-04	2.88E-02	1.44E-03	1.45E-02	1.15E-01	2.65E-02	2.27E-03	4.81E-06	6.43E-06	0.00E+00	
West Virginia	All Urban Counties	N/A	U	3.05E-04	3.76E-04	5.54E-04	1.25E-03	7.14E-02	1.34E-02	1.54E-01	3.14E-01	6.81E-02	3.28E-03	7.43E-06	1.46E-05	0.00E+00	
West Virginia	All Rural Counties	N/A	R	2.50E-05	3.26E-05	6.95E-05	1.79E-04	2.97E-03	3.82E-04	1.51E-03	4.80E-03	1.31E-03	1.65E-03	3.22E-06	1.48E-06	0.00E+00	
West Virginia	Barbour County	54001	R	1.87E-04	1.87E-04	1.89E-04	1.96E-04	2.16E-04	2.42E-04	2.83E-04	2.83E-04	1.95E-05	1.94E-04	1.57E-06	1.88E-07	0.00E+00	
West Virginia	Berkeley County	54003	U	3.76E-04	3.89E-04	4.23E-04	5.85E-04	7.75E-04	8.10E-04	8.77E-04	2.84E-03	6.17E-04	1.52E-04	5.34E-06	5.50E-07	0.00E+00	
West Virginia	Boone County	54005	R	1.03E-04	1.03E-04	1.26E-04	2.81E-04	3.58E-04	4.29E-04	9.99E-04	9.99E-04	1.21E-04	2.35E-04	1.97E-06	3.47E-07	0.00E+00	
West Virginia	Braxton County	54007	R	2.76E-05	2.76E-05	2.76E-05	3.21E-05	3.34E-05	4.06E-05	4.06E-05	4.06E-05	0.00E+00	3.17E-05	1.66E-06	9.30E-08	0.00E+00	
West Virginia	Brooke County	54009	R	2.57E-03	2.57E-03	2.95E-03	1.07E-02	5.95E-02	1.52E-02	3.66E-01	3.66E-01	3.82E-04	5.91E-02	4.34E-06	8.53E-06	0.00E+00	
West Virginia	Cabell County	54011	U	4.03E-03	4.64E-03	6.59E-03	1.29E-02	1.82E-02	1.46E-02	2.50E-02	9.86E-02	7.48E-03	1.06E-02	7.40E-06	5.74E-05	0.00E+00	
West Virginia	Calhoun County	54013	R	2.40E-05	2.40E-05	2.40E-05	2.69E-05	2.69E-05	2.99E-05	2.99E-05	2.99E-05	8.44E-06	1.75E-05	7.80E-07	1.92E-07	0.00E+00	
West Virginia	Clay County	54015	R	7.14E-05	7.14E-05	7.14E-05	1.51E-04	1.40E-04	1.98E-04	1.98E-04	1.98E-04	1.94E-05	1.19E-04	1.40E-06	1.10E-07	0.00E+00	
West Virginia	Doddridge County	54017	R	4.17E-05	4.17E-05	4.17E-05	5.54E-05	5.54E-05	6.91E-05	6.91E-05	6.91E-05	3.31E-05	2.09E-05	9.19E-07	5.19E-07	0.00E+00	
West Virginia	Fayette County	54019	R	4.64E-05	8.78E-05	9.12E-05	1.15E-04	1.10E-04	1.29E-04	1.35E-04	1.52E-04						

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State	County	FIPS	Urban or Rural	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
West Virginia	Nicholas County	54067	R	3.57E-05	3.57E-05	4.30E-05	7.01E-05	8.53E-05	1.11E-04	2.07E-04	2.07E-04	3.76E-06	8.04E-05	9.67E-07	1.18E-07	0.00E+00
West Virginia	Ohio County	54069	U	8.27E-04	8.35E-04	8.70E-04	8.99E-04	9.58E-04	9.92E-04	1.23E-03	1.34E-03	1.92E-04	7.42E-04	8.00E-06	1.58E-05	0.00E+00
West Virginia	Pendleton County	54071	R	2.68E-05	2.68E-05	2.68E-05	3.68E-05	3.89E-05	5.32E-05	5.32E-05	5.32E-05	8.36E-09	3.83E-05	4.78E-07	1.29E-07	0.00E+00
West Virginia	Pleasants County	54073	R	6.36E-02	6.36E-02	6.36E-02	8.86E-02	8.86E-02	1.14E-01	1.14E-01	1.14E-01	8.69E-02	1.68E-03	1.54E-06	8.83E-06	0.00E+00
West Virginia	Pocahontas County	54075	R	3.52E-06	3.52E-06	3.52E-06	9.43E-05	6.75E-05	1.05E-04	1.05E-04	1.05E-04	3.11E-05	3.61E-05	2.80E-07	4.77E-08	0.00E+00
West Virginia	Preston County	54077	R	9.83E-05	9.83E-05	1.08E-04	1.25E-04	3.90E-04	5.29E-04	1.49E-03	1.49E-03	3.51E-04	3.70E-05	1.69E-06	2.34E-07	0.00E+00
West Virginia	Putnam County	54079	U	5.01E-04	5.01E-04	8.73E-04	1.46E-03	4.60E-03	2.39E-03	2.70E-02	2.70E-02	4.49E-03	9.66E-05	4.43E-06	2.46E-06	0.00E+00
West Virginia	Raleigh County	54081	R	3.39E-05	5.54E-05	6.87E-05	7.39E-05	7.77E-05	8.14E-05	1.21E-04	1.21E-04	4.22E-06	6.72E-05	5.80E-06	3.92E-07	0.00E+00
West Virginia	Randolph County	54083	R	1.09E-05	1.09E-05	4.06E-05	1.48E-04	2.47E-04	4.26E-04	7.08E-04	7.08E-04	0.00E+00	2.45E-04	2.39E-06	2.21E-07	0.00E+00
West Virginia	Ritchie County	54085	R	2.73E-02	2.73E-02	2.73E-02	3.42E-02	3.32E-02	3.80E-02	3.80E-02	3.80E-02	3.25E-02	6.12E-04	8.20E-07	1.17E-06	0.00E+00
West Virginia	Roane County	54087	R	2.36E-05	2.36E-05	2.46E-05	3.65E-05	8.30E-05	1.41E-04	2.35E-04	2.35E-04	5.87E-05	2.24E-05	1.57E-06	3.64E-07	0.00E+00
West Virginia	Summers County	54089	R	3.29E-05	3.29E-05	3.74E-05	4.70E-05	5.03E-05	6.33E-05	7.43E-05	7.43E-05	4.11E-06	4.41E-05	1.85E-06	2.52E-07	0.00E+00
West Virginia	Taylor County	54091	R	1.12E-04	1.12E-04	1.21E-04	1.48E-04	1.92E-04	2.63E-04	3.61E-04	3.61E-04	7.65E-05	1.13E-04	2.74E-06	3.40E-07	0.00E+00
West Virginia	Tucker County	54093	R	2.58E-05	2.58E-05	2.58E-05	3.09E-05	3.17E-05	3.82E-05	3.82E-05	3.82E-05	4.33E-06	2.17E-05	5.33E-07	7.44E-08	0.00E+00
West Virginia	Tyler County	54095	R	1.34E-04	1.34E-04	1.34E-04	5.37E-04	4.31E-04	6.22E-04	6.22E-04	6.22E-04	8.15E-05	3.41E-04	9.21E-07	7.54E-06	0.00E+00
West Virginia	Upshur County	54097	R	5.17E-05	5.17E-05	7.70E-05	2.20E-04	2.96E-04	3.82E-04	8.23E-04	8.23E-04	1.63E-05	2.75E-04	3.79E-06	3.91E-07	0.00E+00
West Virginia	Wayne County	54099	U	7.39E-05	3.50E-03	4.45E-03	7.05E-03	8.71E-03	1.33E-02	1.40E-02	1.86E-02	7.99E-03	7.05E-04	5.36E-06	6.72E-06	0.00E+00
West Virginia	Webster County	54101	R	2.83E-05	2.83E-05	2.83E-05	3.19E-05	3.33E-05	3.98E-05	3.98E-05	3.98E-05	0.00E+00	3.29E-05	3.28E-07	8.00E-08	0.00E+00
West Virginia	Wetzel County	54103	R	1.15E-04	1.15E-04	1.24E-04	1.82E-04	1.76E-04	1.84E-04	2.76E-04	2.76E-04	1.21E-04	4.07E-05	1.86E-06	1.29E-05	0.00E+00
West Virginia	Wirt County	54105	R	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.40E-02	6.56E-04	1.04E-06	1.38E-06	0.00E+00
West Virginia	Wood County	54107	U	3.41E-02	5.03E-02	1.18E-01	2.00E-01	4.36E-01	3.48E-01	5.08E-01	5.19E-01	4.29E-01	6.85E-03	6.27E-06	9.69E-06	0.00E+00
West Virginia	Wyoming County	54109	R	4.57E-05	4.57E-05	4.58E-05	7.18E-05	7.81E-05	9.09E-05	1.42E-04	1.42E-04	0.00E+00	7.63E-05	1.51E-06	2.78E-07	0.00E+00
Wisconsin	Statewide	N/A	N/A	5.51E-05	1.04E-04	3.66E-04	9.65E-04	1.47E-02	3.95E-03	1.82E-02	3.80E-02	1.28E-02	1.68E-03	1.22E-05	2.28E-06	0.00E+00
Wisconsin	All Urban Counties	N/A	U	2.75E-04	3.97E-04	6.49E-04	1.70E-03	2.04E-02	6.08E-03	2.84E-02	4.51E-02	1.80E-02	2.34E-03	1.65E-05	3.04E-06	0.00E+00
Wisconsin	All Rural Counties	N/A	R	2.69E-05	3.89E-05	8.13E-05	2.09E-04	1.47E-03	5.53E-04	1.81E-03	4.08E-03	6.74E-04	7.97E-04	2.16E-06	5.01E-07	0.00E+00
Wisconsin	Adams County	55001	R	2.01E-05	2.01E-05	3.41E-05	5.12E-05	4.76E-05	5.25E-05	7.99E-05	7.99E-05	2.07E-05	2.50E-05	1.68E-06	2.12E-07	0.00E+00
Wisconsin	Ashland County	55003	U	7.19E-05	7.19E-05	7.97E-05	1.66E-04	3.84E-03	5.44E-03	1.93E-02	1.93E-02	3.90E-06	3.84E-03	2.06E-06	3.99E-07	0.00E+00
Wisconsin	Barron County	55005	R	1.43E-04	1.43E-04	2.18E-04	3.09E-04	1.36E-03	4.12E-04	5.19E-03	5.19E-03	0.00E+00	1.36E-03	2.24E-06	4.17E-07	0.00E+00
Wisconsin	Bayfield County	55007	R	3.40E-05	3.40E-05	8.12E-05	1.44E-04	2.22E-04	4.50E-04	4.77E-04	4.77E-04	6.84E-05	1.52E-04	3.17E-07	1.25E-06	0.00E+00
Wisconsin	Brown County	55009	U	2.75E-04	3.09E-04	3.69E-04	4.79E-04	7.39E-04	6.17E-04	9.88E-04	1.79E-03	4.96E-05	6.73E-04	1.17E-05	3.91E-06	0.00E+00
Wisconsin	Buffalo County	55011	R	5.43E-05	5.43E-05	6.92E-05	1.01E-04	1.18E-04	1.55E-04	2.10E-04	2.10E-04	9.36E-06	1.06E-04	1.14E-06	1.08E-06	0.00E+00
Wisconsin	Burnett County	55013	R	7.29E-05	7.29E-05	7.42E-05	9.92E-05	1.18E-04	1.28E-04	2.37E-04	2.37E-04	4.47E-11	1.17E-04	8.55E-07	1.61E-07	0.00E+00
Wisconsin	Calumet County	55015	U	2.69E-04	2.69E-04	3.28E-04	4.23E-04	7.01E-04	5.05E-04	2.56E-03	2.56E-03	1.96E-04	4.98E-04	5.10E-06	1.38E-06	0.00E+00
Wisconsin	Chippewa County	55017	R	8.51E-05	1.01E-04	1.17E-04	3.28E-04	1.39E-03	4.75E-04	7.93E-04	1.22E-02	8.02E-07	1.39E-03	2.64E-06	3.99E-07	0.00E+00
Wisconsin	Clark County	55019	R	3.68E-05	3.68E-05	4.75E-05	6.79E-05	1.35E-04	1.71E-04	4.74E-04	4.74E-04	3.48E-05	9.96E-05	8.73E-07	2.40E-07	0.00E+00
Wisconsin	Columbia County	55021	R	9.01E-05	1.45E-04	1.70E-04	2.91E-04	1.52E-03	3.75E-04	4.03E-04	1.54E-02	1.38E-03	1.32E-04	4.73E-06	6.11E-07	0.00E+00
Wisconsin	Crawford County	55023	R	3.96E-05	3.96E-05	4.03E-05	7.05E-05	7.25E-05	9.88E-05	1.15E-04	1.15E-04	4.80E-05	2.12E-05	1.42E-06	1.86E-06	0.00E+00
Wisconsin	Dane County	55025	U	9.24E-03	1.26E-02	1.99E-02	3.40E-02	1.59E-01	5.61E-02	8.54E-02	1.47E-01	1.58E-01	8.60E-04	1.21E-05	1.42E-06	0.00E+00
Wisconsin	Dodge County	55027	R	9.38E-05	1.22E-04	1.67E-04	4.11E-04	1.24E-03	1.10E-03	3.26E-03	7.29E-03	8.97E-04	3.36E-04	3.15E-06	8.69E-07	0.00E+00
Wisconsin	Door County	55029	R	1.06E-06	1.17E-04	3.53E-04	5.45E-04	5.14E-04	7.32E-04	8.06E-04	8.32E-04	4.46E-05	4.67E-04	1.07E-06	6.16E-07	0.00E+00
Wisconsin	Douglas County	55031	U	4.43E-05	4.81E-05	2.62E-04	8.65E-04	1.31E-03	2.12E-03	3.42E-03	4.56E-03	1.23E-04	1.16E-03	8.17E-06	2.07E-05	0.00E+00
Wisconsin	Dunn County	55033	R	7.72E-05	7.72E-05	9.23E-05	1.15E-04	1.21E-04	1.41E-04	1.91E-04	1.91E-04	9.04E-08	1.17E-04	2.85E-06	4.73E-07	0.00E+00
Wisconsin	Eau Claire County	55035	U	2.82E-04	5.66E-04	1.42E-03	3.60E-03	7.12E-03	7.68E-03	2.32E-02	2.39E-02	1.65E-06	7.11E-03	9.30E-06	8.26E-07	0.00E+00
Wisconsin	Florence County	55037	R	4.79E-04	4.79E-04	4.79E-04	7.41E-04	7.41E-04	1.00E-03	1.00E-03	1.00E-03	2.09E-04	5.31E-04	4.62E-07	1.71E-07	0.00E+00
Wisconsin	Fond du Lac County	55039	U	2.43E-04	3.01E-04	4.31E-04	9.14E-04	1.50E-03	1.57E-03	4.09E-03	6.11E-03	1.22E-03	2.76E-04	6.00E-06	1.82E-06	0.00E+00
Wisconsin	Forest County	55041	R	3.21E-05	3.21E-05	4.03E-05	5.00E-05	4.72E-05	5.41E-05	5.67E-05	5.67E-05	1.09E-06	4.55E-05	4.82E-07	8.12E-08	0.00E+00
Wisconsin	Grant County	55043	R	8.13E-05	1.25E-04	1.89E-04	2.62E-04	2.98E-04	4.19E-04	4.31E-04	6.71E-04	1.71E-04	1.25E-04	1.20E-06	9.05E-07	0.00E+00
Wisconsin	Green County	55045	R	3.36E-04	3.36E-04	4.99E-04	3.67E-03	4.95E-03	9.83E-03	1.12E-02	1.12E-02	4.24E-03	7.06E-04	3.60E-06	5.72E-07	0.00E+00
Wisconsin	Green Lake County	55047	R	1.66E-04	1.66E-04	2.51E-04	4.40E-04	1.45E-03	3.51E-03	3.92E-03	3.92E-03	1.28E-04	1.32E-03	1.91E-06	4.39E-07	0.00E+00
Wisconsin	Iowa County	55049	R	2.28E-05	2.28E-05	3.23E-05	3.55E-05	3.97E-05	4.16E-05	7.06E-05	7.06E-05	2.53E-06	3.59E-05	1.03E-06	2.58E-07	0.00E+00
Wisconsin	Iron County	55051	R	3.29E-05	3.29E-05	4.97E-05	6.67E-05	8.85E-05	1.27E-04	1.88E-04	1.88E-04	9.19E-06	7.78E-05	7.34E-07	8.20E-07	0.00E+00
Wisconsin	Jackson County	55053	R	9.67E-06	9.67E-06	1.29E-05	2.69E-05	2.92E-05	2.76E-05	6.91E-05	6.91E-05	4.89E-06	2.27E-05	1.49E-06	1.82E-07	0.00E+00
Wisconsin	Jefferson County	55055	U	7.95E-05	3.65E-03	8.33E-03	2.05E-02	2.51E-02	3.61E-02	5.50E-02	6.07E-02	2.49E-02	1.22E-04	4.05E-06	6.63E-07	0.00E+00
Wisconsin	Juneau County	55057	R	1.55E-05	1.55E-05	4.56E-05	7.83E-05	7.66E-05	1.03E-04	1.43E-04	1.43E-04	4.04E-06	7.03E-05	2.05E-06	2.75E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Wisconsin	Kenosha County	55059	U	4.51E-04	4.64E-04	4.93E-04	5.28E-04	5.87E-04	5.70E-04	7.69E-04	1.10E-03	5.95E-05	5.14E-04	1.16E-05	1.52E-06	0.00E+00
Wisconsin	Kewaunee County	55061	R	4.13E-05	4.13E-05	1.04E-04	2.12E-04	2.42E-04	3.00E-04	5.51E-04	5.51E-04	6.25E-05	1.77E-04	1.75E-06	7.28E-07	0.00E+00
Wisconsin	La Crosse County	55063	U	1.58E-04	2.01E-04	3.93E-04	1.14E-03	2.39E-03	2.15E-03	7.73E-03	9.93E-03	7.35E-04	1.65E-03	4.01E-06	1.58E-06	0.00E+00
Wisconsin	Lafayette County	55065	R	4.01E-05	4.01E-05	4.41E-05	8.86E-05	1.06E-04	1.59E-04	1.97E-04	1.97E-04	2.25E-05	8.22E-05	8.36E-07	4.29E-07	0.00E+00
Wisconsin	Langlade County	55067	R	1.50E-05	1.50E-05	4.50E-05	5.61E-05	6.69E-05	1.01E-04	1.28E-04	1.28E-04	1.31E-06	6.30E-05	2.32E-06	2.85E-07	0.00E+00
Wisconsin	Lincoln County	55069	R	5.51E-05	8.32E-05	1.15E-04	5.05E-04	3.93E-04	6.31E-04	6.47E-04	6.53E-04	1.23E-05	3.78E-04	2.21E-06	2.39E-07	0.00E+00
Wisconsin	Manitowoc County	55071	U	2.86E-04	4.37E-04	1.01E-03	1.50E-03	3.03E-03	2.78E-03	9.44E-03	1.43E-02	2.81E-03	2.18E-04	6.35E-06	1.03E-06	0.00E+00
Wisconsin	Marathon County	55073	R	4.24E-04	4.61E-04	6.88E-04	1.29E-03	3.19E-03	2.14E-03	4.08E-03	9.65E-03	8.21E-05	3.10E-03	4.15E-06	5.12E-07	0.00E+00
Wisconsin	Marinette County	55075	R	2.48E-04	3.16E-04	4.18E-04	1.38E-03	9.09E-03	2.04E-03	1.00E-02	9.11E-02	1.08E-03	8.01E-03	1.55E-06	6.11E-07	0.00E+00
Wisconsin	Marquette County	55077	R	1.51E-04	1.51E-04	1.54E-04	1.60E-04	1.76E-04	2.06E-04	2.09E-04	2.09E-04	7.25E-05	1.01E-04	2.18E-06	2.48E-07	0.00E+00
Wisconsin	Menominee County	55078	R	3.13E-04	3.13E-04	3.13E-04	3.13E-04	3.13E-04	3.13E-04	3.13E-04	3.13E-04	0.00E+00	3.12E-04	5.23E-07	2.26E-07	0.00E+00
Wisconsin	Milwaukee County	55079	U	8.72E-04	1.06E-03	1.73E-03	3.55E-03	5.37E-03	5.30E-03	8.45E-03	1.19E-02	7.06E-04	4.63E-03	3.17E-05	5.15E-06	0.00E+00
Wisconsin	Monroe County	55081	R	1.34E-05	1.34E-05	1.75E-05	3.76E-05	4.32E-05	7.15E-05	7.47E-05	7.47E-05	6.82E-06	3.19E-05	3.95E-06	5.14E-07	0.00E+00
Wisconsin	Oconto County	55083	R	1.33E-04	2.44E-04	2.56E-04	4.67E-04	5.18E-04	5.53E-04	8.88E-04	1.48E-03	1.57E-05	5.01E-04	1.49E-06	5.12E-07	0.00E+00
Wisconsin	Oneida County	55085	R	2.03E-05	2.82E-05	3.79E-05	6.47E-05	1.36E-04	1.88E-04	2.51E-04	6.06E-04	5.68E-06	1.28E-04	2.01E-06	2.72E-07	0.00E+00
Wisconsin	Outagamie County	55087	U	3.81E-04	4.01E-04	5.28E-04	6.16E-04	2.11E-03	1.24E-03	2.22E-03	4.47E-03	4.01E-04	1.69E-03	1.18E-05	2.38E-06	0.00E+00
Wisconsin	Ozaukee County	55089	U	1.82E-04	5.83E-04	6.80E-04	7.35E-04	8.43E-04	9.74E-04	1.18E-03	1.70E-03	2.31E-04	6.01E-04	9.56E-06	1.34E-06	0.00E+00
Wisconsin	Pepin County	55091	R	3.23E-05	3.23E-05	3.23E-05	7.48E-05	7.48E-05	1.17E-04	1.17E-04	1.17E-04	8.10E-06	6.40E-05	9.88E-07	1.64E-06	0.00E+00
Wisconsin	Pierce County	55093	U	3.24E-05	3.24E-05	1.58E-04	4.10E-04	3.55E-04	5.18E-04	6.37E-04	6.37E-04	8.09E-05	2.68E-04	4.35E-06	1.91E-06	0.00E+00
Wisconsin	Polk County	55095	R	1.39E-04	1.46E-04	1.59E-04	2.30E-04	2.72E-04	3.20E-04	5.05E-04	5.36E-04	7.79E-06	2.62E-04	1.59E-06	2.84E-07	0.00E+00
Wisconsin	Portage County	55097	U	3.69E-04	6.83E-04	7.05E-04	9.64E-04	9.49E-04	1.18E-03	1.30E-03	1.38E-03	6.66E-04	2.79E-04	3.56E-06	4.60E-07	0.00E+00
Wisconsin	Price County	55099	R	8.12E-05	8.12E-05	1.13E-04	1.82E-04	2.69E-04	3.68E-04	6.91E-04	6.91E-04	1.02E-05	2.59E-04	4.82E-07	1.11E-07	0.00E+00
Wisconsin	Racine County	55101	U	2.81E-04	3.54E-04	4.59E-04	9.77E-04	1.62E-03	1.54E-03	2.54E-03	3.80E-03	1.11E-04	1.50E-03	8.80E-06	1.15E-06	0.00E+00
Wisconsin	Richland County	55103	R	3.69E-05	3.69E-05	5.03E-05	5.67E-05	5.76E-05	6.95E-05	7.48E-05	7.48E-05	0.00E+00	5.58E-05	1.50E-06	3.56E-07	0.00E+00
Wisconsin	Rock County	55105	U	1.60E-02	2.27E-02	2.75E-02	3.42E-02	3.56E-02	4.37E-02	4.85E-02	5.54E-02	3.09E-02	4.78E-03	1.01E-05	1.03E-06	0.00E+00
Wisconsin	Rusk County	55107	R	2.39E-05	2.39E-05	2.80E-05	4.44E-05	5.13E-05	6.83E-05	9.18E-05	9.18E-05	0.00E+00	5.01E-05	9.92E-07	2.04E-07	0.00E+00
Wisconsin	St. Croix County	55109	U	8.00E-05	9.02E-05	1.06E-04	2.97E-04	5.62E-04	9.67E-04	1.52E-03	1.71E-03	2.67E-04	2.89E-04	4.47E-06	1.45E-06	0.00E+00
Wisconsin	Sauk County	55111	R	5.74E-05	7.14E-05	7.16E-05	1.60E-04	2.49E-04	2.51E-04	3.43E-04	1.07E-03	2.16E-05	2.24E-04	2.55E-06	4.50E-07	0.00E+00
Wisconsin	Sawyer County	55113	R	5.05E-05	5.05E-05	5.31E-05	6.06E-05	1.96E-04	7.59E-05	8.76E-04	8.76E-04	7.00E-07	1.94E-04	1.00E-06	1.46E-07	0.00E+00
Wisconsin	Shawano County	55115	R	1.06E-04	1.38E-04	1.75E-04	4.76E-04	2.65E-03	1.07E-03	1.96E-03	2.31E-02	5.11E-05	2.59E-03	1.53E-06	5.39E-07	0.00E+00
Wisconsin	Sheboygan County	55117	U	3.63E-04	3.65E-04	6.73E-04	2.53E-03	2.56E-03	3.15E-03	3.94E-03	5.16E-03	2.31E-03	2.42E-04	5.14E-06	8.08E-07	0.00E+00
Wisconsin	Taylor County	55119	R	5.02E-05	5.02E-05	6.18E-05	3.84E-04	6.83E-04	6.10E-04	2.61E-03	2.61E-03	5.00E-06	6.77E-04	9.81E-07	2.37E-07	0.00E+00
Wisconsin	Trempealeau County	55121	R	9.07E-05	9.07E-05	1.04E-04	1.37E-04	1.48E-04	1.88E-04	2.37E-04	2.37E-04	1.93E-05	1.27E-04	1.35E-06	5.44E-07	0.00E+00
Wisconsin	Vernon County	55123	R	1.97E-05	1.97E-05	2.61E-05	7.87E-05	7.03E-05	1.14E-04	1.33E-04	1.33E-04	3.22E-05	3.65E-05	9.79E-07	6.46E-07	0.00E+00
Wisconsin	Vilas County	55125	R	1.57E-05	1.57E-05	1.58E-05	1.60E-05	1.76E-05	1.81E-05	2.22E-05	2.22E-05	9.93E-07	1.56E-05	8.78E-07	1.42E-07	0.00E+00
Wisconsin	Walworth County	55127	R	1.72E-04	2.11E-04	2.68E-04	3.95E-04	3.85E-03	5.47E-04	2.41E-02	2.52E-02	3.56E-03	2.88E-04	3.69E-06	6.38E-07	0.00E+00
Wisconsin	Washburn County	55129	R	1.70E-05	1.70E-05	4.05E-05	9.88E-05	7.68E-05	1.11E-04	1.17E-04	1.17E-04	0.00E+00	7.56E-05	9.84E-07	1.76E-07	0.00E+00
Wisconsin	Washington County	55131	U	3.77E-04	4.20E-04	4.46E-04	4.84E-04	6.38E-04	5.32E-04	9.18E-04	1.91E-03	1.64E-04	4.64E-04	7.77E-06	9.72E-07	0.00E+00
Wisconsin	Waukesha County	55133	U	1.42E-04	1.80E-04	3.37E-04	6.75E-04	9.93E-04	9.82E-04	1.55E-03	2.65E-03	5.18E-04	4.63E-04	1.05E-05	1.52E-06	0.00E+00
Wisconsin	Waupaca County	55135	R	7.77E-04	8.99E-04	1.31E-03	2.03E-03	1.02E-02	3.37E-03	6.06E-03	9.71E-02	9.71E-03	4.77E-04	1.89E-06	3.72E-07	0.00E+00
Wisconsin	Waushara County	55137	R	2.93E-04	2.93E-04	3.81E-04	4.59E-04	5.96E-04	8.40E-04	9.30E-04	9.30E-04	4.21E-04	1.73E-04	1.35E-06	2.16E-07	0.00E+00
Wisconsin	Winnebago County	55139	U	4.26E-04	5.32E-04	6.32E-04	8.11E-04	1.00E-03	9.33E-04	1.50E-03	3.02E-03	5.91E-04	4.05E-04	6.85E-06	1.76E-06	0.00E+00
Wisconsin	Wood County	55141	R	1.08E-04	1.34E-04	1.68E-04	2.37E-04	6.58E-04	1.18E-03	1.98E-03	2.18E-03	5.17E-04	1.36E-04	4.03E-06	4.99E-07	0.00E+00
Wyoming	Statewide	N/A	N/A	2.89E-07	5.03E-07	5.14E-06	1.58E-05	1.77E-04	5.81E-05	3.55E-04	7.91E-04	3.14E-05	1.42E-04	2.30E-06	4.15E-07	0.00E+00
Wyoming	All Urban Counties	N/A	U	3.20E-07	9.88E-07	6.28E-06	1.91E-05	2.01E-04	5.73E-05	3.55E-04	6.20E-04	8.54E-06	1.90E-04	2.86E-06	5.05E-07	0.00E+00
Wyoming	All Rural Counties	N/A	R	1.68E-07	3.45E-07	8.11E-07	9.46E-06	1.06E-04	6.16E-05	1.72E-04	8.37E-04	9.65E-05	8.49E-06	7.14E-07	1.59E-07	0.00E+00
Wyoming	Albany County	56001	U	3.20E-07	9.18E-07	5.71E-06	9.57E-06	9.99E-06	1.58E-05	2.04E-05	2.04E-05	0.00E+00	6.75E-06	2.36E-06	8.84E-07	0.00E+00
Wyoming	Big Horn County	56003	R	4.79E-07	4.79E-07	4.79E-07	7.74E-07	6.88E-07	8.11E-07	8.11E-07	8.11E-07	0.00E+00	3.86E-07	2.49E-07	5.29E-08	0.00E+00
Wyoming	Campbell County	56005	U	1.25E-06	1.25E-06	2.21E-05	3.03E-05	3.36E-05	5.73E-05	6.28E-05	6.28E-05	1.45E-06	3.01E-05	1.75E-06	3.36E-07	0.00E+00
Wyoming	Carbon County	56007	U	2.89E-07	2.89E-07	5.18E-05	5.81E-05	6.12E-05	9.39E-05	1.02E-04	1.02E-04	1.23E-05	4.78E-05	9.53E-07	2.58E-07	0.00E+00
Wyoming	Converse County	56009	R	6.16E-05	6.16E-05	6.18E-05	9.60E-05	1.06E-04	1.51E-04	1.72E-04	1.72E-04	1.00E-04	5.01E-06	8.96E-07	1.34E-07	0.00E+00
Wyoming	Crook County	56011	R	2.51E-07	2.51E-07	2.51E-07	1.20E-06	1.20E-06	2.15E-06	2.15E-06	2.15E-06	2.33E-08	9.23E-07	2.06E-07	4.54E-08	0.00E+00
Wyoming	Fremont County	56013	R	1.09E-07	1.09E-07	6.11E-07	4.41E-06	5.05E-06	7.26E-06	1.64E-05	1.64E-05	0.00E+00	3.69E-06	1.18E-06	1.85E-07	0.00E+00
Wyoming	Goshen County	56015	R	4.78E-06	4.78E-06	7.17E-06	1.86E-05	2.20E-04	4.32E-04	8.37E-04	8.37E-04	2.17E-04	1.41E-06	7.38E-07	2.92E-07	0.00E+00

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

State	County	FIPS	Urban or Rural	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
Wyoming	Hot Springs County	56017	U	2.20E-08	2.20E-08	8.46E-08	1.53E-07	2.13E-06	4.17E-06	8.18E-06	8.18E-06	0.00E+00	1.60E-06	4.04E-07	1.24E-07	0.00E+00
Wyoming	Johnson County	56019	U	5.03E-07	5.03E-07	5.03E-07	2.82E-06	2.82E-06	5.14E-06	5.14E-06	5.14E-06	0.00E+00	1.66E-06	1.04E-06	1.22E-07	0.00E+00
Wyoming	Laramie County	56021	U	2.49E-06	4.75E-06	1.67E-05	2.06E-05	2.02E-05	2.48E-05	3.08E-05	4.04E-05	9.41E-06	5.79E-06	4.46E-06	4.92E-07	0.00E+00
Wyoming	Lincoln County	56023	R	9.70E-06	9.70E-06	1.70E-05	4.71E-05	4.66E-05	7.62E-05	8.25E-05	8.25E-05	0.00E+00	4.60E-05	4.87E-07	1.20E-07	0.00E+00
Wyoming	Natrona County	56025	U	2.93E-06	5.60E-06	2.71E-04	3.00E-04	9.56E-04	6.20E-04	8.57E-04	1.02E-02	2.42E-05	9.27E-04	4.21E-06	4.66E-07	0.00E+00
Wyoming	Niobrara County	56027	R	1.68E-07	1.68E-07	1.68E-07	1.68E-07	1.68E-07	1.68E-07	1.68E-07	1.68E-07	0.00E+00	7.55E-08	4.14E-08	5.10E-08	0.00E+00
Wyoming	Park County	56029	U	6.58E-07	6.58E-07	4.55E-06	6.28E-06	5.72E-06	7.66E-06	9.44E-06	9.44E-06	0.00E+00	3.50E-06	1.95E-06	2.65E-07	0.00E+00
Wyoming	Platte County	56031	R	7.91E-04	7.91E-04	7.91E-04	9.57E-04	9.57E-04	1.12E-03	1.12E-03	1.12E-03	9.57E-04	2.71E-07	3.02E-07	9.33E-08	0.00E+00
Wyoming	Sheridan County	56033	U	1.42E-05	1.42E-05	3.38E-05	2.39E-04	2.22E-04	3.59E-04	4.46E-04	4.46E-04	0.00E+00	2.17E-04	4.29E-06	8.66E-07	0.00E+00
Wyoming	Sublette County	56035	R	3.45E-07	3.45E-07	3.45E-07	3.45E-07	3.45E-07	3.45E-07	3.45E-07	3.45E-07	0.00E+00	2.03E-07	9.86E-08	4.36E-08	0.00E+00
Wyoming	Sweetwater County	56037	U	7.35E-06	8.56E-06	1.06E-05	1.22E-05	1.45E-05	1.88E-05	2.09E-05	2.94E-05	6.62E-06	4.77E-06	2.34E-06	7.54E-07	0.00E+00
Wyoming	Teton County	56039	R	8.61E-06	8.61E-06	8.61E-06	1.31E-05	1.23E-05	1.52E-05	1.52E-05	1.52E-05	0.00E+00	1.12E-05	8.61E-07	2.92E-07	0.00E+00
Wyoming	Uinta County	56041	U	6.97E-07	6.97E-07	6.97E-07	9.88E-07	1.92E-06	4.07E-06	4.07E-06	4.07E-06	0.00E+00	1.11E-06	6.51E-07	1.61E-07	0.00E+00
Wyoming	Washakie County	56043	U	4.16E-07	4.16E-07	4.16E-07	5.44E-06	5.62E-06	1.10E-05	1.10E-05	1.10E-05	0.00E+00	2.99E-06	2.20E-06	4.30E-07	0.00E+00
Wyoming	Weston County	56045	U	3.55E-06	3.55E-06	3.55E-06	5.44E-05	5.44E-05	1.05E-04	1.05E-04	1.05E-04	3.55E-05	1.86E-05	2.29E-07	8.01E-08	0.00E+00
Puerto Rico	Statewide	N/A	N/A	6.05E-05	8.55E-05	1.48E-04	2.43E-04	9.23E-04	4.97E-04	2.60E-03	4.52E-03	4.90E-06	7.67E-04	3.36E-05	1.18E-04	0.00E+00
Puerto Rico	All Urban Counties	N/A	U	6.56E-05	9.09E-05	1.45E-04	2.23E-04	9.01E-04	3.83E-04	2.53E-03	4.57E-03	5.60E-06	7.30E-04	3.71E-05	1.28E-04	0.00E+00
Puerto Rico	All Rural Counties	N/A	R	4.96E-05	6.74E-05	2.26E-04	4.43E-04	1.04E-03	1.55E-03	2.76E-03	3.70E-03	1.14E-06	9.62E-04	1.49E-05	6.11E-05	0.00E+00
Puerto Rico	Adjuntas Municipio	72001	R	2.16E-03	2.16E-03	2.22E-03	2.74E-03	2.60E-03	2.76E-03	2.98E-03	2.98E-03	0.00E+00	9.52E-03	1.39E-05	5.98E-05	0.00E+00
Puerto Rico	Aguada Municipio	72003	U	2.75E-04	2.75E-04	2.77E-04	2.90E-04	2.89E-04	2.98E-04	3.01E-04	3.01E-04	0.00E+00	2.02E-04	1.97E-05	6.68E-05	0.00E+00
Puerto Rico	Aguadilla Municipio	72005	U	2.20E-04	2.26E-04	2.61E-04	2.84E-04	3.13E-04	3.61E-04	4.17E-04	5.24E-04	0.00E+00	1.52E-04	3.80E-05	1.23E-04	0.00E+00
Puerto Rico	Aguas Buenas Municipio	72007	U	1.03E-04	1.03E-04	1.05E-04	1.21E-04	1.24E-04	1.25E-04	1.72E-04	1.72E-04	2.16E-06	5.55E-06	2.67E-05	9.01E-05	0.00E+00
Puerto Rico	Aibonito Municipio	72009	R	9.01E-05	9.01E-05	1.02E-04	1.40E-04	2.03E-04	3.63E-04	3.84E-04	3.84E-04	2.29E-06	9.44E-05	2.20E-05	8.44E-05	0.00E+00
Puerto Rico	Anasco Municipio	72011	U	3.21E-04	3.21E-04	3.59E-04	4.29E-04	4.20E-04	5.02E-04	5.27E-04	5.27E-04	0.00E+00	2.99E-04	2.75E-05	9.28E-05	0.00E+00
Puerto Rico	Arecibo Municipio	72013	U	1.57E-04	1.62E-04	1.75E-04	1.98E-04	3.18E-04	2.50E-04	9.92E-04	1.04E-03	2.96E-07	1.96E-04	3.28E-05	8.96E-05	0.00E+00
Puerto Rico	Arroyo Municipio	72015	R	5.89E-05	5.89E-05	5.89E-05	7.70E-05	7.68E-05	9.44E-05	9.44E-05	9.44E-05	5.35E-06	2.71E-06	9.59E-06	5.91E-05	0.00E+00
Puerto Rico	Barceloneta Municipio	72017	U	1.73E-04	1.73E-04	2.03E-04	2.58E-04	2.48E-04	2.93E-04	3.03E-04	3.03E-04	6.15E-06	1.10E-04	3.61E-05	9.57E-05	0.00E+00
Puerto Rico	Barranquitas Municipio	72019	R	1.00E-04	1.00E-04	2.61E-04	4.30E-04	3.53E-04	4.44E-04	4.49E-04	4.49E-04	9.13E-07	2.50E-04	1.97E-05	8.24E-05	0.00E+00
Puerto Rico	Bayamon Municipio	72021	U	1.15E-04	1.39E-04	1.87E-04	2.22E-04	2.39E-04	2.76E-04	3.53E-04	3.90E-04	2.79E-05	6.82E-06	5.27E-05	1.51E-04	0.00E+00
Puerto Rico	Cabo Rojo Municipio	72023	U	3.93E-04	3.93E-04	8.08E-04	1.86E-03	2.04E-03	3.15E-03	3.53E-03	3.53E-03	0.00E+00	1.96E-03	1.44E-05	6.13E-05	0.00E+00
Puerto Rico	Caguas Municipio	72025	U	1.20E-04	1.29E-04	1.36E-04	1.68E-04	1.91E-04	2.40E-04	2.85E-04	2.88E-04	1.32E-06	6.86E-06	4.46E-05	1.38E-04	0.00E+00
Puerto Rico	Camuy Municipio	72027	U	1.84E-04	1.84E-04	2.23E-04	2.42E-04	3.97E-04	2.60E-04	1.23E-03	1.23E-03	0.00E+00	3.09E-04	1.99E-05	6.79E-05	0.00E+00
Puerto Rico	Canovanas Municipio	72029	U	3.90E-05	3.90E-05	7.22E-05	1.08E-04	1.05E-04	1.16E-04	2.34E-04	2.34E-04	6.26E-07	3.99E-06	1.88E-05	8.18E-05	0.00E+00
Puerto Rico	Carolina Municipio	72031	U	7.34E-05	9.09E-05	1.06E-04	1.67E-04	1.73E-04	2.25E-04	2.69E-04	3.18E-04	1.13E-06	8.89E-06	4.14E-05	1.22E-04	0.00E+00
Puerto Rico	Catano Municipio	72033	U	1.49E-04	1.49E-04	1.79E-04	2.14E-04	2.22E-04	2.54E-04	2.92E-04	2.92E-04	1.32E-05	1.24E-05	4.96E-05	1.46E-04	0.00E+00
Puerto Rico	Cayey Municipio	72035	U	7.02E-05	7.30E-05	1.00E-04	1.26E-04	1.40E-04	1.89E-04	2.11E-04	2.27E-04	3.41E-06	5.53E-06	2.70E-05	1.04E-04	0.00E+00
Puerto Rico	Ceiba Municipio	72037	U	2.41E-05	2.41E-05	2.41E-05	5.21E-05	5.21E-05	8.01E-05	8.01E-05	8.01E-05	4.05E-07	3.03E-06	8.96E-06	3.97E-05	0.00E+00
Puerto Rico	Ciales Municipio	72039	R	8.11E-04	8.11E-04	8.15E-04	8.56E-04	8.79E-04	9.42E-04	9.91E-04	9.91E-04	5.13E-06	7.84E-04	1.82E-05	7.12E-05	0.00E+00
Puerto Rico	Cidra Municipio	72041	U	9.85E-05	9.85E-05	1.14E-04	1.18E-04	1.23E-04	1.33E-04	1.57E-04	1.57E-04	1.80E-06	6.81E-06	2.79E-05	8.66E-05	0.00E+00
Puerto Rico	Coama Municipio	72043	R	3.45E-04	3.45E-04	4.10E-04	4.50E-04	4.33E-04	4.67E-04	4.87E-04	4.87E-04	7.18E-07	3.42E-04	1.72E-05	7.31E-05	0.00E+00
Puerto Rico	Comerio Municipio	72045	U	9.82E-05	9.82E-05	1.00E-04	1.01E-04	1.38E-04	1.87E-04	2.03E-04	2.03E-04	9.98E-07	7.71E-06	2.11E-05	1.08E-04	0.00E+00
Puerto Rico	Corozal Municipio	72047	U	1.08E-04	1.08E-04	1.31E-04	1.44E-04	1.47E-04	1.74E-04	1.84E-04	1.84E-04	7.04E-06	9.64E-06	2.55E-05	1.05E-04	0.00E+00
Puerto Rico	Culebra Municipio	72049	R	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	0.00E+00	9.91E-07	9.89E-06	7.91E-06	0.00E+00
Puerto Rico	Dorado Municipio	72051	U	8.00E-05	8.00E-05	1.32E-04	1.65E-04	1.54E-04	1.89E-04	2.03E-04	2.03E-04	1.51E-05	5.87E-06	4.07E-05	9.28E-05	0.00E+00
Puerto Rico	Fajardo Municipio	72053	U	2.75E-05	2.75E-05	6.08E-05	7.15E-05	8.22E-05	8.74E-05	1.90E-04	1.90E-04	2.13E-07	1.80E-06	1.27E-05	6.74E-05	0.00E+00
Puerto Rico	Florida Municipio	72054	U	9.35E-04	9.35E-04	9.35E-04	9.70E-04	9.70E-04	1.01E-03	1.01E-03	1.01E-03	6.00E-06	8.72E-04	1.73E-05	7.50E-05	0.00E+00
Puerto Rico	Guanica Municipio	72055	R	3.26E-03	3.26E-03	4.06E-03	4.88E-03	5.02E-03	6.11E-03	6.95E-03	6.95E-03	0.00E+00	4.95E-03	1.22E-05	6.31E-05	0.00E+00
Puerto Rico	Guayama Municipio	72057	U	5.03E-05	5.03E-05	6.09E-05	1.03E-04	1.12E-04	1.34E-04	2.53E-04	2.53E-04	4.69E-06	3.43E-06	1.77E-05	8.67E-05	0.00E+00
Puerto Rico	Guayanilla Municipio	72059	U	5.05E-03	5.05E-03	5.30E-03	8.75E-03	1.02E-02	1.13E-02	2.04E-02	2.04E-02	0.00E+00	1.01E-02	1.79E-05	6.40E-05	0.00E+00
Puerto Rico	Guaynabo Municipio	72061	U	1.33E-04	1.60E-04	1.84E-04	2.21E-04	2.42E-04	2.74E-04	4.04E-04	4.18E-04	7.01E-06	1.57E-05	5.15E-05	1.68E-04	0.00E+00
Puerto Rico	Gurabo Municipio	72063	U	7.79E-05	7.79E-05	8.05E-05	1.09E-04	1.42E-04	1.99E-04	2.79E-04	2.79E-04	8.58E-07	5.83E-06	2.75E-05	1.08E-04	0.00E+00
Puerto Rico	Hatillo Municipio	72065	U	1.71E-04	1.71E-04	1.79E-04	2.22E-04	3.80E-04	2.67E-04	1.22E-03	1.22E-03	0.00E+00	2.82E-04	2.52E-05	7.23E-05	0.00E+00
Puerto Rico	Hormigueros Municipio	72067	U	1.53E-03	1.53E-03	2.72E-03	3.97E-03	3.64E-03	4.55E-03	5.08E-03	5.08E-03	0.00E+00	3.51E-03	3.76E-05	9.21E-05	0.00E+00
Puerto Rico	Humacao Municipio	72069	U	3.45E-05	4.28E-05	4.90E-05	7.00E-05	7.18E-05	9.56E-05	9.93E-05	1.06E-04	7.13E-07	2.59E-06	1.81E-05	5.04E-05	0.00E+00

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State	County	FIPS	Urban or Rural	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
Puerto Rico	Isabela Municipio	72071	R	1.93E-04	1.93E-04	1.97E-04	2.07E-04	2.10E-04	2.15E-04	2.51E-04	2.51E-04	0.00E+00	1.23E-04	1.86E-05	6.84E-05	0.00E+00
Puerto Rico	Jayuya Municipio	72073	R	1.41E-03	1.41E-03	1.41E-03	1.67E-03	1.62E-03	1.76E-03	1.76E-03	1.76E-03	0.00E+00	1.54E-03	1.16E-05	6.38E-05	0.00E+00
Puerto Rico	Juana Diaz Municipio	72075	U	5.59E-04	7.30E-04	7.46E-04	8.91E-04	8.76E-04	9.72E-04	1.06E-03	1.13E-03	0.00E+00	7.63E-04	2.91E-05	8.34E-05	0.00E+00
Puerto Rico	Juncos Municipio	72077	U	6.88E-05	6.88E-05	7.87E-05	1.06E-04	1.06E-04	1.22E-04	1.58E-04	1.58E-04	6.30E-07	5.09E-06	2.53E-05	7.55E-05	0.00E+00
Puerto Rico	Lajas Municipio	72079	R	2.34E-03	2.34E-03	3.27E-03	3.28E-03	3.21E-03	3.49E-03	3.70E-03	3.70E-03	0.00E+00	3.17E-03	8.46E-06	4.11E-05	0.00E+00
Puerto Rico	Lares Municipio	72081	R	1.37E-03	1.37E-03	1.50E-03	1.56E-03	1.61E-03	1.68E-03	2.05E-03	2.05E-03	0.00E+00	1.53E-03	1.74E-05	6.43E-05	0.00E+00
Puerto Rico	Las Marias Municipio	72083	R	1.42E-03	1.42E-03	1.42E-03	1.57E-03	1.53E-03	1.60E-03	1.60E-03	1.60E-03	0.00E+00	1.49E-03	9.30E-06	3.48E-05	0.00E+00
Puerto Rico	Las Piedras Municipio	72085	U	5.46E-05	5.46E-05	6.37E-05	7.56E-05	8.32E-05	1.11E-04	1.18E-04	1.18E-04	6.82E-07	4.05E-06	1.77E-05	6.07E-05	0.00E+00
Puerto Rico	Loiza Municipio	72087	U	3.41E-05	3.93E-05	4.50E-05	8.98E-05	1.01E-04	1.61E-04	1.76E-04	1.88E-04	7.45E-07	2.23E-06	1.48E-05	8.30E-05	0.00E+00
Puerto Rico	Luquillo Municipio	72089	U	4.48E-05	4.48E-05	4.70E-05	5.02E-05	6.01E-05	5.52E-05	1.03E-04	1.03E-04	3.45E-07	1.71E-06	1.44E-05	4.36E-05	0.00E+00
Puerto Rico	Manati Municipio	72091	U	1.27E-04	1.27E-04	1.60E-04	2.17E-04	2.18E-04	2.52E-04	3.61E-04	3.61E-04	8.57E-06	4.01E-05	4.01E-05	1.30E-04	0.00E+00
Puerto Rico	Maricao Municipio	72093	R	1.96E-03	1.96E-03	1.96E-03	2.05E-03	2.05E-03	2.14E-03	2.14E-03	2.14E-03	0.00E+00	2.01E-03	8.82E-06	3.41E-05	0.00E+00
Puerto Rico	Maunabo Municipio	72095	R	5.20E-05	5.20E-05	5.20E-05	8.52E-05	7.42E-05	8.55E-05	8.55E-05	8.55E-05	6.48E-06	2.48E-06	5.36E-06	5.99E-05	0.00E+00
Puerto Rico	Mayaguez Municipio	72097	U	4.92E-04	5.19E-04	5.79E-04	6.68E-04	8.93E-04	8.13E-04	2.21E-03	2.54E-03	0.00E+00	7.43E-04	2.54E-05	1.25E-04	0.00E+00
Puerto Rico	Moca Municipio	72099	R	2.16E-04	2.16E-04	2.53E-04	2.71E-04	2.64E-04	2.84E-04	2.87E-04	2.87E-04	0.00E+00	1.88E-04	1.45E-05	6.12E-05	0.00E+00
Puerto Rico	Morovis Municipio	72101	U	1.50E-04	1.50E-04	1.54E-04	1.83E-04	2.69E-04	2.06E-04	6.53E-04	6.53E-04	6.36E-06	1.23E-04	2.23E-05	1.18E-04	0.00E+00
Puerto Rico	Naguabo Municipio	72103	U	3.22E-05	3.22E-05	3.59E-05	4.12E-05	4.01E-05	4.44E-05	4.59E-05	4.59E-05	4.84E-07	1.89E-06	7.42E-06	3.03E-05	0.00E+00
Puerto Rico	Naranjito Municipio	72105	U	1.25E-04	1.25E-04	1.26E-04	1.26E-04	1.30E-04	1.31E-04	1.43E-04	1.43E-04	2.40E-06	1.16E-05	2.80E-05	8.81E-05	0.00E+00
Puerto Rico	Orocovis Municipio	72107	R	5.05E-04	5.05E-04	5.21E-04	5.54E-04	5.87E-04	6.37E-04	7.66E-04	7.66E-04	2.11E-06	5.01E-04	1.63E-05	6.79E-05	0.00E+00
Puerto Rico	Patillas Municipio	72109	R	4.24E-05	4.24E-05	4.61E-05	5.65E-05	5.58E-05	6.55E-05	6.78E-05	6.78E-05	7.50E-06	2.36E-06	7.66E-06	3.83E-05	0.00E+00
Puerto Rico	Penuelas Municipio	72111	U	5.74E-03	5.74E-03	6.32E-03	7.65E-03	1.10E-02	1.05E-02	2.82E-02	2.82E-02	0.00E+00	1.09E-02	2.62E-05	8.14E-05	0.00E+00
Puerto Rico	Ponce Municipio	72113	U	1.48E-03	1.73E-03	2.18E-03	2.89E-03	3.79E-03	3.92E-03	6.77E-03	8.55E-03	0.00E+00	3.64E-03	2.78E-05	1.25E-04	0.00E+00
Puerto Rico	Quebradillas Municipio	72115	R	2.26E-04	2.26E-04	2.35E-04	2.47E-04	2.43E-04	2.51E-04	2.52E-04	2.52E-04	0.00E+00	1.50E-04	2.04E-05	7.26E-05	0.00E+00
Puerto Rico	Rincon Municipio	72117	R	2.52E-04	2.52E-04	2.52E-04	2.66E-04	2.71E-04	2.94E-04	2.94E-04	2.94E-04	0.00E+00	1.81E-04	1.69E-05	7.31E-05	0.00E+00
Puerto Rico	Rio Grande Municipio	72119	U	4.94E-05	4.94E-05	6.37E-05	7.98E-05	9.59E-05	8.81E-05	2.54E-04	2.54E-04	5.31E-07	3.05E-06	1.95E-05	7.28E-05	0.00E+00
Puerto Rico	Sabana Grande Municipio	72121	U	4.01E-03	4.01E-03	4.30E-03	4.44E-03	4.86E-03	5.24E-03	6.72E-03	6.72E-03	0.00E+00	4.76E-03	1.64E-05	8.35E-05	0.00E+00
Puerto Rico	Salinas Municipio	72123	R	4.96E-05	4.96E-05	5.83E-05	2.93E-04	2.24E-04	3.80E-04	4.10E-04	4.10E-04	3.29E-06	1.37E-04	2.05E-05	6.39E-05	0.00E+00
Puerto Rico	San German Municipio	72125	U	4.17E-03	4.17E-03	4.24E-03	4.52E-03	5.53E-03	5.51E-03	1.08E-02	1.08E-02	0.00E+00	5.45E-03	1.80E-05	5.66E-05	0.00E+00
Puerto Rico	San Juan Municipio	72127	U	1.30E-04	1.59E-04	2.10E-04	2.62E-04	2.96E-04	3.49E-04	4.35E-04	5.34E-04	2.65E-06	1.45E-05	5.97E-05	2.19E-04	0.00E+00
Puerto Rico	San Lorenzo Municipio	72129	U	5.06E-05	5.06E-05	6.87E-05	8.48E-05	9.68E-05	1.31E-04	1.55E-04	1.55E-04	1.19E-06	4.23E-06	1.82E-05	7.32E-05	0.00E+00
Puerto Rico	San Sebastian Municipio	72131	R	2.47E-04	2.47E-04	3.01E-04	3.33E-04	6.34E-04	1.24E-03	1.39E-03	1.39E-03	0.00E+00	5.52E-04	1.57E-05	6.69E-05	0.00E+00
Puerto Rico	Santa Isabel Municipio	72133	R	3.71E-04	3.71E-04	3.72E-04	4.29E-04	4.21E-04	4.67E-04	4.67E-04	4.67E-04	0.00E+00	3.55E-04	1.65E-05	4.99E-05	0.00E+00
Puerto Rico	Toa Alta Municipio	72135	U	1.44E-04	1.44E-04	1.66E-04	2.15E-04	1.97E-04	2.23E-04	2.26E-04	2.26E-04	1.62E-05	6.43E-06	3.47E-05	1.40E-04	0.00E+00
Puerto Rico	Toa Baja Municipio	72137	U	1.37E-04	1.53E-04	1.86E-04	2.38E-04	2.49E-04	3.09E-04	3.24E-04	3.76E-04	3.11E-05	8.74E-06	5.38E-05	1.55E-04	0.00E+00
Puerto Rico	Trujillo Alto Municipio	72139	U	9.51E-05	9.60E-05	1.16E-04	1.49E-04	1.63E-04	2.20E-04	2.49E-04	2.50E-04	8.47E-07	7.19E-06	2.37E-05	1.31E-04	0.00E+00
Puerto Rico	Utado Municipio	72141	R	1.31E-03	1.31E-03	1.44E-03	1.56E-03	1.54E-03	1.61E-03	1.76E-03	1.76E-03	0.00E+00	1.47E-03	1.34E-05	5.57E-05	0.00E+00
Puerto Rico	Vega Alta Municipio	72143	U	1.19E-04	1.19E-04	1.46E-04	1.75E-04	1.68E-04	1.94E-04	1.98E-04	1.98E-04	1.74E-05	6.48E-06	4.03E-05	1.04E-04	0.00E+00
Puerto Rico	Vega Baja Municipio	72145	U	1.18E-04	1.43E-04	1.52E-04	1.66E-04	1.85E-04	2.15E-04	2.61E-04	2.95E-04	1.06E-05	7.30E-06	4.49E-05	1.22E-04	0.00E+00
Puerto Rico	Vieques Municipio	72147	R	3.59E-06	3.59E-06	5.15E-06	1.37E-05	1.66E-05	2.81E-05	3.55E-05	3.55E-05	1.13E-07	4.56E-07	2.03E-06	1.40E-05	0.00E+00
Puerto Rico	Villalba Municipio	72149	U	6.58E-04	6.58E-04	8.48E-04	8.76E-04	8.62E-04	9.58E-04	9.71E-04	9.71E-04	7.69E-07	7.48E-04	2.14E-05	9.17E-05	0.00E+00
Puerto Rico	Yabucoa Municipio	72151	U	4.34E-05	4.34E-05	5.33E-05	6.04E-05	8.82E-05	1.13E-04	2.09E-04	2.09E-04	1.81E-05	2.93E-06	1.23E-05	5.49E-05	0.00E+00
Puerto Rico	Yauco Municipio	72153	U	3.05E-03	3.99E-03	5.15E-03	8.65E-03	7.65E-03	9.47E-03	9.96E-03	1.16E-02	0.00E+00	7.54E-03	2.19E-05	7.91E-05	0.00E+00
Virgin Islands	Statewide	N/A	N/A	1.86E-05	4.68E-05	8.78E-05	1.74E-04	2.24E-04	3.35E-04	5.26E-04	5.71E-04	5.68E-05	1.13E-05	1.07E-04	4.84E-05	0.00E+00
Virgin Islands	All Urban Counties	N/A	U	4.68E-05	5.16E-05	6.91E-05	1.82E-04	2.34E-04	3.81E-04	5.26E-04	5.71E-04	0.00E+00	1.58E-05	1.49E-04	6.97E-05	0.00E+00
Virgin Islands	All Rural Counties	N/A	R	2.15E-06	1.86E-05	1.05E-04	1.50E-04	2.15E-04	2.95E-04	5.39E-04	5.97E-04	1.05E-04	7.46E-06	7.26E-05	3.06E-05	0.00E+00
Virgin Islands	St. Croix	78010	R	8.78E-05	1.05E-04	1.19E-04	2.01E-04	2.52E-04	3.15E-04	5.39E-04	5.97E-04	1.24E-04	8.69E-06	8.39E-05	3.55E-05	0.00E+00
Virgin Islands	St. John	78020	R	2.15E-06	2.15E-06	2.15E-06	1.86E-05	1.72E-05	3.09E-05	3.09E-05	3.09E-05	0.00E+00	9.08E-07	1.22E-05	4.13E-06	0.00E+00
Virgin Islands	St. Thomas	78030	U	4.68E-05	5.16E-05	6.91E-05	1.82E-04	2.34E-04	3.81E-04	5.26E-04	5.71E-04	0.00E+00	1.58E-05	1.49E-04	6.97E-05	0.00E+00