

US EPA ARCHIVE DOCUMENT

## 1996 Modeled Exposure Concentrations for 1,3-Butadiene (includes secondary formed 1,3-Butadiene)

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

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

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| National | Nationwide           | -     | -                    | 3.73E-03                                                                | 8.12E-03 | 2.02E-02 | 4.79E-02 | 6.27E-02 | 8.23E-02 | 1.28E-01 | 1.65E-01 | 1.15E-03                         | 6.44E-03          | 4.26E-02         | 1.24E-02          | 0.00E+00                |
| National | All Urban Counties   | -     | U                    | 8.06E-03                                                                | 1.55E-02 | 3.26E-02 | 5.93E-02 | 7.15E-02 | 9.28E-02 | 1.39E-01 | 1.76E-01 | 1.36E-03                         | 5.93E-03          | 4.97E-02         | 1.46E-02          | 0.00E+00                |
| National | All Rural Counties   | -     | R                    | 9.86E-04                                                                | 3.13E-03 | 7.35E-03 | 1.30E-02 | 2.25E-02 | 2.56E-02 | 4.48E-02 | 6.01E-02 | 1.97E-04                         | 8.74E-03          | 1.08E-02         | 2.84E-03          | 0.00E+00                |
| Alabama  | Statewide            | 01000 | -                    | 7.43E-03                                                                | 8.61E-03 | 1.38E-02 | 3.44E-02 | 4.55E-02 | 6.91E-02 | 9.69E-02 | 1.11E-01 | 1.04E-04                         | 4.68E-03          | 3.45E-02         | 6.22E-03          | 0.00E+00                |
| Alabama  | State Urban Counties | 01000 | U                    | 1.22E-02                                                                | 1.63E-02 | 2.89E-02 | 5.90E-02 | 5.85E-02 | 8.10E-02 | 1.06E-01 | 1.17E-01 | 1.22E-04                         | 4.27E-03          | 4.55E-02         | 8.60E-03          | 0.00E+00                |
| Alabama  | State Rural Counties | 01000 | R                    | 6.39E-03                                                                | 7.18E-03 | 8.55E-03 | 1.22E-02 | 1.83E-02 | 2.17E-02 | 3.69E-02 | 5.16E-02 | 6.65E-05                         | 5.53E-03          | 1.15E-02         | 1.25E-03          | 0.00E+00                |
| Alabama  | Autauga County       | 01001 | U                    | 1.32E-02                                                                | 1.39E-02 | 1.65E-02 | 3.90E-02 | 3.78E-02 | 5.51E-02 | 6.89E-02 | 7.16E-02 | 4.34E-09                         | 8.22E-03          | 2.37E-02         | 5.94E-03          | 0.00E+00                |
| Alabama  | Baldwin County       | 01003 | U                    | 8.04E-03                                                                | 8.40E-03 | 1.22E-02 | 1.64E-02 | 2.05E-02 | 2.52E-02 | 3.54E-02 | 5.40E-02 | 6.21E-05                         | 5.32E-03          | 8.90E-03         | 6.18E-03          | 0.00E+00                |
| Alabama  | Barbour County       | 01005 | U                    | 5.65E-03                                                                | 5.74E-03 | 6.42E-03 | 1.04E-02 | 2.22E-02 | 4.47E-02 | 4.75E-02 | 4.98E-02 | 9.60E-05                         | 1.48E-02          | 5.96E-03         | 1.33E-03          | 0.00E+00                |
| Alabama  | Bibb County          | 01007 | R                    | 9.83E-03                                                                | 9.92E-03 | 1.02E-02 | 1.10E-02 | 1.27E-02 | 1.30E-02 | 1.54E-02 | 1.61E-02 | 4.10E-06                         | 4.75E-03          | 6.60E-03         | 1.31E-03          | 0.00E+00                |
| Alabama  | Blount County        | 01009 | U                    | 1.04E-02                                                                | 1.05E-02 | 1.12E-02 | 1.92E-02 | 1.78E-02 | 2.02E-02 | 2.26E-02 | 2.37E-02 | 2.10E-05                         | 3.02E-03          | 1.31E-02         | 1.64E-03          | 0.00E+00                |
| Alabama  | Bullock County       | 01011 | R                    | 6.39E-03                                                                | 6.47E-03 | 6.72E-03 | 7.06E-03 | 6.95E-03 | 7.26E-03 | 7.28E-03 | 7.28E-03 | 2.64E-04                         | 3.80E-03          | 2.57E-03         | 3.12E-04          | 0.00E+00                |
| Alabama  | Butler County        | 01013 | R                    | 9.29E-03                                                                | 9.35E-03 | 9.70E-03 | 1.46E-02 | 2.18E-02 | 2.95E-02 | 4.39E-02 | 5.85E-02 | 1.62E-06                         | 1.34E-02          | 7.62E-03         | 7.04E-04          | 0.00E+00                |
| Alabama  | Calhoun County       | 01015 | R                    | 2.42E-02                                                                | 2.47E-02 | 3.19E-02 | 4.18E-02 | 4.30E-02 | 5.47E-02 | 7.31E-02 | 7.68E-02 | 2.55E-06                         | 5.56E-03          | 3.35E-02         | 3.98E-03          | 0.00E+00                |
| Alabama  | Chambers County      | 01017 | U                    | 9.37E-03                                                                | 1.01E-02 | 1.13E-02 | 2.28E-02 | 2.58E-02 | 2.75E-02 | 5.68E-02 | 6.19E-02 | 0.00E+00                         | 1.07E-02          | 1.26E-02         | 2.57E-03          | 0.00E+00                |
| Alabama  | Cherokee County      | 01019 | R                    | 9.37E-03                                                                | 9.37E-03 | 9.38E-03 | 9.83E-03 | 1.07E-02 | 1.00E-02 | 1.41E-02 | 1.54E-02 | 1.91E-05                         | 3.68E-03          | 6.19E-03         | 7.87E-04          | 0.00E+00                |
| Alabama  | Chilton County       | 01021 | R                    | 1.04E-02                                                                | 1.14E-02 | 1.22E-02 | 1.39E-02 | 1.65E-02 | 1.50E-02 | 2.44E-02 | 2.49E-02 | 3.76E-06                         | 4.92E-03          | 1.02E-02         | 1.37E-03          | 0.00E+00                |
| Alabama  | Choctaw County       | 01023 | R                    | 7.03E-03                                                                | 7.35E-03 | 8.31E-03 | 8.90E-03 | 8.36E-03 | 9.07E-03 | 9.28E-03 | 9.35E-03 | 1.28E-08                         | 5.68E-03          | 2.44E-03         | 2.33E-04          | 0.00E+00                |
| Alabama  | Clarke County        | 01025 | R                    | 6.56E-03                                                                | 6.57E-03 | 6.99E-03 | 8.37E-03 | 9.14E-03 | 1.09E-02 | 1.79E-02 | 2.10E-02 | 2.06E-06                         | 6.44E-03          | 2.33E-03         | 3.69E-04          | 0.00E+00                |
| Alabama  | Clay County          | 01027 | R                    | 8.51E-03                                                                | 8.60E-03 | 8.85E-03 | 9.04E-03 | 1.04E-02 | 1.07E-02 | 1.37E-02 | 1.47E-02 | 2.92E-07                         | 5.63E-03          | 4.33E-03         | 4.06E-04          | 0.00E+00                |
| Alabama  | Cleburne County      | 01029 | R                    | 1.01E-02                                                                | 1.01E-02 | 1.01E-02 | 1.09E-02 | 1.27E-02 | 1.31E-02 | 1.56E-02 | 1.64E-02 | 1.84E-07                         | 6.58E-03          | 5.45E-03         | 6.31E-04          | 0.00E+00                |
| Alabama  | Coffee County        | 01031 | U                    | 7.93E-03                                                                | 8.29E-03 | 8.81E-03 | 1.28E-02 | 1.84E-02 | 2.82E-02 | 3.19E-02 | 3.67E-02 | 3.98E-05                         | 6.00E-03          | 9.72E-03         | 2.60E-03          | 0.00E+00                |
| Alabama  | Colbert County       | 01033 | U                    | 1.20E-02                                                                | 1.33E-02 | 1.63E-02 | 5.17E-02 | 3.41E-02 | 6.31E-02 | 6.98E-02 | 7.27E-02 | 1.68E-05                         | 4.48E-03          | 2.62E-02         | 3.40E-03          | 0.00E+00                |
| Alabama  | Conecuh County       | 01035 | R                    | 6.12E-03                                                                | 6.19E-03 | 6.68E-03 | 7.73E-03 | 8.82E-03 | 7.88E-03 | 1.42E-02 | 1.74E-02 | 0.00E+00                         | 6.36E-03          | 2.23E-03         | 2.38E-04          | 0.00E+00                |
| Alabama  | Coosa County         | 01037 | R                    | 9.38E-03                                                                | 9.64E-03 | 1.04E-02 | 1.17E-02 | 1.18E-02 | 1.28E-02 | 1.35E-02 | 1.37E-02 | 1.05E-06                         | 6.32E-03          | 4.58E-03         | 8.49E-04          | 0.00E+00                |
| Alabama  | Covington County     | 01039 | R                    | 6.72E-03                                                                | 6.97E-03 | 7.52E-03 | 1.08E-02 | 1.44E-02 | 2.45E-02 | 2.59E-02 | 2.98E-02 | 2.01E-06                         | 8.30E-03          | 5.28E-03         | 7.98E-04          | 0.00E+00                |
| Alabama  | Crenshaw County      | 01041 | R                    | 6.85E-03                                                                | 7.21E-03 | 8.18E-03 | 9.79E-03 | 9.48E-03 | 1.08E-02 | 1.15E-02 | 1.18E-02 | 1.56E-04                         | 4.72E-03          | 4.01E-03         | 6.01E-04          | 0.00E+00                |
| Alabama  | Cullman County       | 01043 | R                    | 1.24E-02                                                                | 1.27E-02 | 1.34E-02 | 1.52E-02 | 1.91E-02 | 1.74E-02 | 2.91E-02 | 4.02E-02 | 1.34E-05                         | 2.46E-03          | 1.53E-02         | 1.33E-03          | 0.00E+00                |
| Alabama  | Dale County          | 01045 | R                    | 5.10E-03                                                                | 7.95E-03 | 9.24E-03 | 1.24E-02 | 1.94E-02 | 2.81E-02 | 2.95E-02 | 3.54E-02 | 1.01E-04                         | 6.11E-03          | 1.21E-02         | 1.13E-03          | 0.00E+00                |
| Alabama  | Dallas County        | 01047 | R                    | 7.01E-03                                                                | 7.45E-03 | 8.63E-03 | 1.55E-02 | 2.21E-02 | 3.09E-02 | 3.60E-02 | 4.26E-02 | 2.95E-08                         | 8.72E-03          | 1.24E-02         | 1.00E-03          | 0.00E+00                |
| Alabama  | DeKalb County        | 01049 | R                    | 8.66E-03                                                                | 9.13E-03 | 9.88E-03 | 1.14E-02 | 1.36E-02 | 1.92E-02 | 2.13E-02 | 2.38E-02 | 1.30E-04                         | 3.72E-03          | 8.85E-03         | 8.89E-04          | 0.00E+00                |
| Alabama  | Elmore County        | 01051 | U                    | 1.42E-02                                                                | 1.50E-02 | 1.72E-02 | 1.93E-02 | 2.18E-02 | 2.62E-02 | 2.85E-02 | 3.34E-02 | 6.53E-08                         | 4.23E-03          | 1.47E-02         | 2.94E-03          | 0.00E+00                |
| Alabama  | Escambia County      | 01053 | R                    | 8.01E-03                                                                | 8.93E-03 | 9.70E-03 | 2.03E-02 | 2.03E-02 | 2.09E-02 | 3.61E-02 | 5.41E-02 | 5.86E-07                         | 1.19E-02          | 7.14E-03         | 1.19E-03          | 0.00E+00                |
| Alabama  | Etowah County        | 01055 | U                    | 2.02E-02                                                                | 2.19E-02 | 3.23E-02 | 4.84E-02 | 4.21E-02 | 5.68E-02 | 7.82E-02 | 9.94E-02 | 2.39E-04                         | 3.61E-03          | 3.43E-02         | 3.94E-03          | 0.00E+00                |
| Alabama  | Fayette County       | 01057 | R                    | 8.25E-03                                                                | 8.29E-03 | 8.41E-03 | 1.14E-02 | 1.20E-02 | 1.49E-02 | 1.50E-02 | 1.50E-02 | 6.25E-07                         | 6.58E-03          | 4.85E-03         | 5.37E-04          | 0.00E+00                |

| State   | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Alabama | Franklin County      | 01059 | R                    | 7.23E-03                                                                | 7.30E-03 | 7.97E-03 | 1.21E-02 | 1.69E-02 | 1.39E-02 | 3.46E-02 | 3.50E-02 | 2.42E-06                         | 7.42E-03          | 8.61E-03         | 8.11E-04          | 0.00E+00                |
| Alabama | Geneva County        | 01061 | R                    | 7.46E-03                                                                | 7.55E-03 | 7.90E-03 | 8.95E-03 | 1.05E-02 | 1.22E-02 | 1.59E-02 | 1.73E-02 | 4.27E-07                         | 3.54E-03          | 6.11E-03         | 8.55E-04          | 0.00E+00                |
| Alabama | Greene County        | 01063 | R                    | 6.42E-03                                                                | 6.55E-03 | 6.93E-03 | 7.30E-03 | 7.28E-03 | 7.47E-03 | 7.51E-03 | 7.53E-03 | 3.77E-07                         | 3.82E-03          | 3.00E-03         | 4.63E-04          | 0.00E+00                |
| Alabama | Hale County          | 01065 | R                    | 5.03E-03                                                                | 5.32E-03 | 6.47E-03 | 8.86E-03 | 1.15E-02 | 1.43E-02 | 1.59E-02 | 1.59E-02 | 1.42E-06                         | 4.86E-03          | 5.76E-03         | 9.10E-04          | 0.00E+00                |
| Alabama | Henry County         | 01067 | R                    | 5.33E-03                                                                | 5.50E-03 | 5.90E-03 | 6.74E-03 | 8.11E-03 | 9.31E-03 | 1.06E-02 | 1.10E-02 | 4.33E-07                         | 3.41E-03          | 4.05E-03         | 6.51E-04          | 0.00E+00                |
| Alabama | Houston County       | 01069 | U                    | 1.36E-02                                                                | 1.50E-02 | 1.59E-02 | 2.98E-02 | 3.51E-02 | 5.58E-02 | 5.82E-02 | 6.62E-02 | 4.62E-07                         | 2.36E-03          | 2.83E-02         | 4.42E-03          | 0.00E+00                |
| Alabama | Jackson County       | 01071 | R                    | 6.92E-03                                                                | 7.47E-03 | 8.03E-03 | 8.52E-03 | 1.32E-02 | 1.62E-02 | 2.65E-02 | 3.07E-02 | 1.33E-04                         | 4.98E-03          | 7.23E-03         | 8.91E-04          | 0.00E+00                |
| Alabama | Jefferson County     | 01073 | U                    | 4.42E-02                                                                | 5.79E-02 | 7.78E-02 | 9.52E-02 | 9.35E-02 | 1.09E-01 | 1.26E-01 | 1.48E-01 | 1.79E-04                         | 2.57E-03          | 7.87E-02         | 1.20E-02          | 0.00E+00                |
| Alabama | Lamar County         | 01075 | R                    | 8.25E-03                                                                | 8.31E-03 | 8.48E-03 | 8.76E-03 | 8.70E-03 | 8.93E-03 | 9.03E-03 | 9.06E-03 | 9.72E-09                         | 4.90E-03          | 3.52E-03         | 2.71E-04          | 0.00E+00                |
| Alabama | Lauderdale County    | 01077 | R                    | 1.25E-02                                                                | 1.42E-02 | 1.70E-02 | 4.34E-02 | 3.34E-02 | 5.86E-02 | 6.59E-02 | 7.92E-02 | 1.26E-05                         | 3.01E-03          | 2.87E-02         | 1.70E-03          | 0.00E+00                |
| Alabama | Lawrence County      | 01079 | R                    | 8.06E-03                                                                | 8.43E-03 | 9.81E-03 | 1.18E-02 | 1.25E-02 | 1.61E-02 | 1.63E-02 | 1.65E-02 | 2.42E-04                         | 2.32E-03          | 8.75E-03         | 1.20E-03          | 0.00E+00                |
| Alabama | Lee County           | 01081 | U                    | 2.21E-02                                                                | 2.26E-02 | 2.78E-02 | 6.54E-02 | 6.10E-02 | 9.63E-02 | 1.06E-01 | 1.09E-01 | 0.00E+00                         | 8.54E-03          | 4.33E-02         | 9.16E-03          | 0.00E+00                |
| Alabama | Limestone County     | 01083 | U                    | 1.16E-02                                                                | 1.21E-02 | 1.24E-02 | 1.57E-02 | 1.90E-02 | 2.81E-02 | 4.12E-02 | 5.07E-02 | 1.57E-04                         | 1.73E-03          | 1.44E-02         | 2.66E-03          | 0.00E+00                |
| Alabama | Lowndes County       | 01085 | R                    | 8.68E-03                                                                | 8.76E-03 | 9.01E-03 | 9.39E-03 | 9.53E-03 | 9.41E-03 | 1.00E-02 | 1.02E-02 | 5.43E-07                         | 2.74E-03          | 5.66E-03         | 1.12E-03          | 0.00E+00                |
| Alabama | Macon County         | 01087 | R                    | 9.85E-03                                                                | 1.16E-02 | 1.36E-02 | 2.18E-02 | 2.53E-02 | 4.16E-02 | 5.03E-02 | 5.09E-02 | 8.63E-07                         | 1.12E-02          | 1.30E-02         | 1.10E-03          | 0.00E+00                |
| Alabama | Madison County       | 01089 | U                    | 2.24E-02                                                                | 2.42E-02 | 3.64E-02 | 6.07E-02 | 5.58E-02 | 7.15E-02 | 8.49E-02 | 9.57E-02 | 1.79E-05                         | 2.36E-03          | 4.42E-02         | 9.19E-03          | 0.00E+00                |
| Alabama | Marengo County       | 01091 | R                    | 5.37E-03                                                                | 5.57E-03 | 5.89E-03 | 6.54E-03 | 9.63E-03 | 1.18E-02 | 1.32E-02 | 1.32E-02 | 3.40E-08                         | 5.58E-03          | 3.64E-03         | 4.22E-04          | 0.00E+00                |
| Alabama | Marion County        | 01093 | R                    | 7.97E-03                                                                | 8.25E-03 | 9.57E-03 | 1.07E-02 | 1.21E-02 | 1.40E-02 | 1.47E-02 | 1.53E-02 | 3.25E-07                         | 6.29E-03          | 5.29E-03         | 5.61E-04          | 0.00E+00                |
| Alabama | Marshall County      | 01095 | R                    | 1.04E-02                                                                | 1.14E-02 | 1.22E-02 | 1.46E-02 | 1.54E-02 | 1.65E-02 | 2.32E-02 | 2.75E-02 | 4.16E-06                         | 2.27E-03          | 1.10E-02         | 2.17E-03          | 0.00E+00                |
| Alabama | Mobile County        | 01097 | U                    | 2.27E-02                                                                | 2.98E-02 | 4.84E-02 | 6.16E-02 | 5.86E-02 | 7.57E-02 | 9.21E-02 | 1.04E-01 | 2.73E-04                         | 2.63E-03          | 4.60E-02         | 9.69E-03          | 0.00E+00                |
| Alabama | Monroe County        | 01099 | R                    | 6.33E-03                                                                | 6.76E-03 | 7.42E-03 | 7.72E-03 | 1.53E-02 | 1.66E-02 | 2.56E-02 | 2.59E-02 | 5.09E-07                         | 9.72E-03          | 5.15E-03         | 4.56E-04          | 0.00E+00                |
| Alabama | Montgomery County    | 01101 | U                    | 2.52E-02                                                                | 3.11E-02 | 5.43E-02 | 6.39E-02 | 6.62E-02 | 7.82E-02 | 9.23E-02 | 9.53E-02 | 1.76E-06                         | 2.24E-03          | 5.17E-02         | 1.22E-02          | 0.00E+00                |
| Alabama | Morgan County        | 01103 | U                    | 1.97E-02                                                                | 2.08E-02 | 2.40E-02 | 3.73E-02 | 4.33E-02 | 6.27E-02 | 7.63E-02 | 8.13E-02 | 5.64E-04                         | 2.44E-03          | 3.40E-02         | 6.30E-03          | 0.00E+00                |
| Alabama | Perry County         | 01105 | R                    | 4.56E-03                                                                | 5.47E-03 | 8.21E-03 | 8.79E-03 | 7.31E-03 | 8.93E-03 | 1.12E-02 | 1.19E-02 | 4.94E-07                         | 4.11E-03          | 2.83E-03         | 3.77E-04          | 0.00E+00                |
| Alabama | Pickens County       | 01107 | R                    | 8.22E-03                                                                | 8.41E-03 | 8.83E-03 | 9.18E-03 | 9.33E-03 | 9.42E-03 | 1.03E-02 | 1.08E-02 | 7.75E-07                         | 4.40E-03          | 4.28E-03         | 6.43E-04          | 0.00E+00                |
| Alabama | Pike County          | 01109 | R                    | 7.78E-03                                                                | 7.94E-03 | 8.15E-03 | 9.87E-03 | 1.97E-02 | 2.82E-02 | 2.85E-02 | 2.88E-02 | 1.83E-03                         | 9.43E-03          | 7.75E-03         | 7.12E-04          | 0.00E+00                |
| Alabama | Randolph County      | 01111 | R                    | 8.19E-03                                                                | 8.65E-03 | 9.58E-03 | 9.64E-03 | 1.31E-02 | 1.56E-02 | 1.76E-02 | 1.76E-02 | 4.05E-09                         | 6.35E-03          | 6.10E-03         | 6.93E-04          | 0.00E+00                |
| Alabama | Russell County       | 01113 | U                    | 1.82E-02                                                                | 2.13E-02 | 4.07E-02 | 5.41E-02 | 6.05E-02 | 7.59E-02 | 1.23E-01 | 1.33E-01 | 2.68E-07                         | 7.97E-03          | 4.58E-02         | 6.72E-03          | 0.00E+00                |
| Alabama | St. Clair County     | 01115 | U                    | 1.50E-02                                                                | 1.69E-02 | 1.94E-02 | 2.14E-02 | 2.37E-02 | 3.12E-02 | 3.16E-02 | 3.16E-02 | 2.00E-05                         | 4.74E-03          | 1.58E-02         | 3.08E-03          | 0.00E+00                |
| Alabama | Shelby County        | 01117 | U                    | 1.71E-02                                                                | 1.86E-02 | 2.21E-02 | 3.37E-02 | 4.53E-02 | 5.97E-02 | 7.18E-02 | 7.37E-02 | 2.43E-05                         | 5.60E-03          | 3.05E-02         | 9.15E-03          | 0.00E+00                |
| Alabama | Sumter County        | 01119 | R                    | 4.67E-03                                                                | 4.83E-03 | 5.23E-03 | 5.94E-03 | 6.49E-03 | 7.00E-03 | 1.05E-02 | 1.21E-02 | 1.27E-07                         | 4.33E-03          | 1.91E-03         | 2.59E-04          | 0.00E+00                |
| Alabama | Talladega County     | 01121 | U                    | 1.02E-02                                                                | 1.12E-02 | 1.18E-02 | 2.85E-02 | 2.71E-02 | 3.83E-02 | 5.36E-02 | 6.00E-02 | 1.96E-06                         | 7.53E-03          | 1.65E-02         | 3.05E-03          | 0.00E+00                |
| Alabama | Tallapoosa County    | 01123 | U                    | 1.19E-02                                                                | 1.25E-02 | 1.28E-02 | 1.63E-02 | 1.92E-02 | 1.93E-02 | 3.23E-02 | 3.37E-02 | 1.27E-07                         | 8.79E-03          | 8.45E-03         | 1.95E-03          | 0.00E+00                |
| Alabama | Tuscaloosa County    | 01125 | U                    | 2.76E-02                                                                | 2.98E-02 | 6.80E-02 | 7.61E-02 | 7.77E-02 | 1.12E-01 | 1.35E-01 | 1.42E-01 | 2.26E-05                         | 1.27E-02          | 5.29E-02         | 1.20E-02          | 0.00E+00                |
| Alabama | Walker County        | 01127 | R                    | 1.26E-02                                                                | 1.29E-02 | 1.44E-02 | 2.16E-02 | 2.02E-02 | 2.37E-02 | 2.61E-02 | 3.01E-02 | 8.82E-06                         | 4.59E-03          | 1.42E-02         | 1.41E-03          | 0.00E+00                |
| Alabama | Washington County    | 01129 | R                    | 6.85E-03                                                                | 6.97E-03 | 7.32E-03 | 7.91E-03 | 7.77E-03 | 8.06E-03 | 8.48E-03 | 8.62E-03 | 6.21E-05                         | 4.69E-03          | 2.64E-03         | 3.82E-04          | 0.00E+00                |
| Alabama | Wilcox County        | 01131 | R                    | 6.71E-03                                                                | 6.72E-03 | 6.73E-03 | 6.75E-03 | 7.40E-03 | 8.30E-03 | 8.31E-03 | 8.31E-03 | 0.00E+00                         | 4.69E-03          | 2.42E-03         | 2.95E-04          | 0.00E+00                |
| Alabama | Winston County       | 01133 | R                    | 8.83E-03                                                                | 8.88E-03 | 9.02E-03 | 9.78E-03 | 1.54E-02 | 2.14E-02 | 2.53E-02 | 2.66E-02 | 5.60E-07                         | 7.86E-03          | 6.77E-03         | 7.53E-04          | 0.00E+00                |
| Arizona | Statewide            | 04000 | -                    | 2.50E-03                                                                | 5.06E-03 | 2.41E-02 | 5.11E-02 | 5.20E-02 | 6.95E-02 | 8.50E-02 | 9.66E-02 | 1.68E-07                         | 4.45E-03          | 2.88E-02         | 1.87E-02          | 0.00E+00                |
| Arizona | State Urban Counties | 04000 | U                    | 3.47E-03                                                                | 7.78E-03 | 3.29E-02 | 5.41E-02 | 5.43E-02 | 7.18E-02 | 8.62E-02 | 1.00E-01 | 1.80E-07                         | 3.85E-03          | 3.05E-02         | 1.99E-02          | 0.00E+00                |
| Arizona | State Rural Counties | 04000 | R                    | 0.00E+00                                                                | 1.05E-03 | 2.63E-03 | 7.90E-03 | 1.68E-02 | 1.73E-02 | 3.96E-02 | 5.96E-02 | 3.32E-12                         | 1.35E-02          | 3.05E-03         | 2.82E-04          | 0.00E+00                |
| Arizona | Apache County        | 04001 | R                    | 1.90E-03                                                                | 2.41E-03 | 3.00E-03 | 5.48E-03 | 8.51E-03 | 9.90E-03 | 1.35E-02 | 1.75E-02 | 1.23E-11                         | 6.94E-03          | 1.48E-03         | 9.07E-05          | 0.00E+00                |
| Arizona | Cochise County       | 04003 | U                    | 1.12E-03                                                                | 1.17E-03 | 2.17E-03 | 4.82E-03 | 7.78E-03 | 1.02E-02 | 1.48E-02 | 1.75E-02 | 0.00E+00                         | 1.15E-03          | 5.20E-03         | 1.42E-03          | 0.00E+00                |
| Arizona | Coconino County      | 04005 | U                    | 5.61E-03                                                                | 7.01E-03 | 4.57E-02 | 7.83E-02 | 7.85E-02 | 1.03E-01 | 1.25E-01 | 1.46E-01 | 0.00E+00                         | 6.06E-02          | 7.72E-03         | 1.03E-02          | 0.00E+00                |
| Arizona | Gila County          | 04007 | R                    | 4.88E-03                                                                | 7.69E-03 | 1.21E-02 | 1.77E-02 | 3.46E-02 | 4.23E-02 | 5.97E-02 | 5.99E-02 | 0.00E+00                         | 2.96E-02          | 4.37E-03         | 6.23E-04          | 0.00E+00                |
| Arizona | Graham County        | 04009 | R                    | 0.00E+00                                                                | 0.00E+00 | 2.54E-03 | 1.05E-02 | 3.13E-02 | 2.46E-02 | 5.98E-02 | 6.95E-02 | 0.00E+00                         | 2.40E-02          | 6.90E-03         | 4.83E-04          | 0.00E+00                |
| Arizona | Greenlee County      | 04011 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.01E-03 | 1.25E-02 | 1.73E-02 | 1.74E-02 | 1.74E-02 | 0.00E+00                         | 1.14E-02          | 1.09E-03         | 4.09E-05          | 0.00E+00                |
| Arizona | La Paz County        | 04012 | R                    | 9.74E-04                                                                | 9.99E-04 | 1.44E-03 | 2.62E-03 | 8.11E-03 | 6.51E-03 | 1.56E-02 | 1.94E-02 | 0.00E+00                         | 3.42E-04          | 7.39E-03         | 3.83E-04          | 0.00E+00                |
| Arizona | Maricopa County      | 04013 | U                    | 2.92E-02                                                                | 3.58E-02 | 5.10E-02 | 6.50E-02 | 6.74E-02 | 7.78E-02 | 9.09E-02 | 1.07E-01 | 0.00E+00                         | 9.42E-04          | 4.15E-02         | 2.50E-02          | 0.00E+00                |
| Arizona | Mohave County        | 04015 | U                    | 6.69E-04                                                                | 8.90E-04 | 2.89E-03 | 7.02E-03 | 1.22E-02 | 1.37E-02 | 1.85E-02 | 2.60E-02 | 0.00E+00                         | 4.91E-03          | 3.84E-03         | 3.49E-03          | 0.00E+00                |
| Arizona | Navajo County        | 04017 | R                    | 1.34E-03                                                                | 1.45E-03 | 2.70E-03 | 5.17E-03 | 1.12E-02 | 1.59E-02 | 2.70E-02 | 2.98E-02 | 3.31E-14                         | 9.30E-03          | 1.72E-03         | 1.95E-04          | 0.00E+00                |
| Arizona | Pima County          | 04019 | U                    | 1.13E-02                                                                | 1.78E-02 | 3.45E-02 | 4.32E-02 | 4.14E-02 | 5.22E-02 | 6.18E-02 | 6.61E-02 | 0.00E+00                         | 3.87E-03          | 1.90E-02         | 1.85E-02          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Arizona  | Pinal County         | 04021 | U                    | 1.98E-03                                                                | 2.44E-03 | 4.03E-03 | 9.97E-03 | 1.27E-02 | 1.68E-02 | 2.41E-02 | 2.99E-02 | 0.00E+00                         | 1.99E-03          | 8.40E-03         | 2.34E-03          | 0.00E+00                |
| Arizona  | Santa Cruz County    | 04023 | U                    | 2.67E-03                                                                | 2.77E-03 | 3.08E-03 | 7.46E-03 | 8.66E-03 | 1.31E-02 | 1.45E-02 | 1.50E-02 | 0.00E+00                         | 1.11E-03          | 4.75E-03         | 2.80E-03          | 0.00E+00                |
| Arizona  | Yavapai County       | 04025 | U                    | 3.33E-03                                                                | 4.08E-03 | 7.35E-03 | 1.79E-02 | 2.47E-02 | 3.74E-02 | 5.12E-02 | 5.30E-02 | 0.00E+00                         | 1.82E-02          | 4.34E-03         | 2.18E-03          | 0.00E+00                |
| Arizona  | Yuma County          | 04027 | U                    | 9.91E-04                                                                | 1.95E-03 | 4.54E-03 | 1.70E-02 | 1.99E-02 | 2.82E-02 | 3.42E-02 | 4.32E-02 | 5.77E-06                         | 8.58E-05          | 8.76E-03         | 1.10E-02          | 0.00E+00                |
| Arkansas | Statewide            | 05000 | -                    | 4.03E-03                                                                | 5.36E-03 | 8.64E-03 | 2.02E-02 | 3.28E-02 | 4.31E-02 | 7.27E-02 | 9.77E-02 | 6.23E-05                         | 6.43E-03          | 2.16E-02         | 4.67E-03          | 0.00E+00                |
| Arkansas | State Urban Counties | 05000 | U                    | 5.01E-03                                                                | 8.22E-03 | 1.64E-02 | 3.36E-02 | 4.35E-02 | 6.23E-02 | 9.29E-02 | 1.12E-01 | 1.11E-04                         | 3.79E-03          | 3.20E-02         | 7.55E-03          | 0.00E+00                |
| Arkansas | State Rural Counties | 05000 | R                    | 3.54E-03                                                                | 4.61E-03 | 6.45E-03 | 1.15E-02 | 1.96E-02 | 2.26E-02 | 4.45E-02 | 5.57E-02 | 2.76E-06                         | 9.66E-03          | 8.78E-03         | 1.11E-03          | 0.00E+00                |
| Arkansas | Arkansas County      | 05001 | U                    | 4.39E-03                                                                | 4.48E-03 | 4.95E-03 | 1.05E-02 | 1.68E-02 | 2.45E-02 | 2.65E-02 | 2.66E-02 | 0.00E+00                         | 5.26E-03          | 7.55E-03         | 3.98E-03          | 0.00E+00                |
| Arkansas | Ashley County        | 05003 | R                    | 5.07E-03                                                                | 5.16E-03 | 6.71E-03 | 8.19E-03 | 1.51E-02 | 1.87E-02 | 2.50E-02 | 2.65E-02 | 0.00E+00                         | 1.07E-02          | 4.04E-03         | 3.81E-04          | 0.00E+00                |
| Arkansas | Baxter County        | 05005 | R                    | 1.19E-02                                                                | 1.23E-02 | 1.31E-02 | 2.25E-02 | 2.65E-02 | 4.25E-02 | 4.65E-02 | 4.88E-02 | 0.00E+00                         | 8.83E-03          | 1.15E-02         | 6.18E-03          | 0.00E+00                |
| Arkansas | Benton County        | 05007 | U                    | 9.45E-03                                                                | 9.69E-03 | 1.51E-02 | 2.13E-02 | 2.35E-02 | 3.03E-02 | 3.84E-02 | 4.08E-02 | 0.00E+00                         | 3.50E-03          | 1.63E-02         | 3.69E-03          | 0.00E+00                |
| Arkansas | Boone County         | 05009 | R                    | 5.64E-03                                                                | 5.76E-03 | 6.13E-03 | 6.93E-03 | 1.51E-02 | 2.23E-02 | 3.02E-02 | 3.17E-02 | 0.00E+00                         | 4.89E-03          | 9.23E-03         | 9.77E-04          | 0.00E+00                |
| Arkansas | Bradley County       | 05011 | U                    | 1.29E-02                                                                | 1.95E-02 | 3.92E-02 | 3.92E-02 | 3.15E-02 | 3.98E-02 | 4.02E-02 | 4.03E-02 | 0.00E+00                         | 2.58E-02          | 4.86E-03         | 8.75E-04          | 0.00E+00                |
| Arkansas | Calhoun County       | 05013 | R                    | 1.50E-02                                                                | 1.51E-02 | 1.52E-02 | 1.54E-02 | 1.54E-02 | 1.56E-02 | 1.58E-02 | 1.58E-02 | 0.00E+00                         | 1.18E-02          | 3.36E-03         | 2.96E-04          | 0.00E+00                |
| Arkansas | Carroll County       | 05015 | R                    | 4.85E-03                                                                | 5.07E-03 | 5.74E-03 | 1.35E-02 | 1.05E-02 | 1.60E-02 | 1.61E-02 | 1.62E-02 | 0.00E+00                         | 5.58E-03          | 4.50E-03         | 4.39E-04          | 0.00E+00                |
| Arkansas | Chicot County        | 05017 | U                    | 1.13E-03                                                                | 2.26E-03 | 5.65E-03 | 9.50E-03 | 9.03E-03 | 1.05E-02 | 1.06E-02 | 1.06E-02 | 0.00E+00                         | 4.18E-03          | 3.33E-03         | 1.52E-03          | 0.00E+00                |
| Arkansas | Clark County         | 05019 | R                    | 6.46E-03                                                                | 6.58E-03 | 6.93E-03 | 2.41E-02 | 2.66E-02 | 4.20E-02 | 4.39E-02 | 4.45E-02 | 0.00E+00                         | 1.95E-02          | 6.34E-03         | 7.36E-04          | 0.00E+00                |
| Arkansas | Clay County          | 05021 | R                    | 4.38E-03                                                                | 4.51E-03 | 5.00E-03 | 7.07E-03 | 9.49E-03 | 1.24E-02 | 1.64E-02 | 1.77E-02 | 0.00E+00                         | 3.87E-03          | 5.00E-03         | 6.14E-04          | 0.00E+00                |
| Arkansas | Cleburne County      | 05023 | R                    | 5.47E-03                                                                | 5.70E-03 | 6.40E-03 | 1.11E-02 | 2.21E-02 | 4.36E-02 | 4.54E-02 | 4.61E-02 | 0.00E+00                         | 1.21E-02          | 8.97E-03         | 1.02E-03          | 0.00E+00                |
| Arkansas | Cleveland County     | 05025 | R                    | 9.56E-03                                                                | 9.73E-03 | 1.02E-02 | 1.10E-02 | 1.11E-02 | 1.18E-02 | 1.23E-02 | 1.25E-02 | 0.00E+00                         | 6.48E-03          | 4.00E-03         | 6.48E-04          | 0.00E+00                |
| Arkansas | Columbia County      | 05027 | R                    | 1.06E-02                                                                | 1.17E-02 | 1.50E-02 | 1.57E-02 | 4.94E-02 | 9.09E-02 | 9.45E-02 | 9.57E-02 | 0.00E+00                         | 3.24E-02          | 1.57E-02         | 1.23E-03          | 0.00E+00                |
| Arkansas | Conway County        | 05029 | R                    | 6.66E-03                                                                | 6.89E-03 | 7.66E-03 | 1.06E-02 | 1.07E-02 | 1.33E-02 | 1.57E-02 | 1.68E-02 | 0.00E+00                         | 3.80E-03          | 6.12E-03         | 7.71E-04          | 0.00E+00                |
| Arkansas | Craighead County     | 05031 | U                    | 5.38E-03                                                                | 5.65E-03 | 9.00E-03 | 1.28E-02 | 1.91E-02 | 2.50E-02 | 3.31E-02 | 3.68E-02 | 1.24E-06                         | 2.46E-03          | 1.26E-02         | 4.08E-03          | 0.00E+00                |
| Arkansas | Crawford County      | 05033 | R                    | 1.20E-02                                                                | 1.24E-02 | 1.56E-02 | 1.79E-02 | 3.10E-02 | 3.89E-02 | 5.26E-02 | 5.39E-02 | 0.00E+00                         | 5.25E-03          | 2.33E-02         | 2.39E-03          | 0.00E+00                |
| Arkansas | Crittenden County    | 05035 | U                    | 8.03E-03                                                                | 9.16E-03 | 1.23E-02 | 2.30E-02 | 2.98E-02 | 4.04E-02 | 5.34E-02 | 5.45E-02 | 2.85E-03                         | 7.13E-04          | 2.14E-02         | 4.89E-03          | 0.00E+00                |
| Arkansas | Cross County         | 05037 | R                    | 4.58E-03                                                                | 4.58E-03 | 4.82E-03 | 6.29E-03 | 1.38E-02 | 1.94E-02 | 2.35E-02 | 2.35E-02 | 6.16E-05                         | 3.93E-03          | 9.11E-03         | 6.87E-04          | 0.00E+00                |
| Arkansas | Dallas County        | 05039 | R                    | 7.20E-03                                                                | 7.23E-03 | 7.31E-03 | 7.44E-03 | 1.44E-02 | 1.38E-02 | 1.77E-02 | 1.90E-02 | 0.00E+00                         | 1.13E-02          | 2.91E-03         | 2.16E-04          | 0.00E+00                |
| Arkansas | Desha County         | 05041 | U                    | 4.96E-03                                                                | 5.22E-03 | 6.00E-03 | 6.06E-03 | 7.78E-03 | 1.08E-02 | 1.09E-02 | 1.09E-02 | 0.00E+00                         | 2.52E-03          | 3.69E-03         | 1.57E-03          | 0.00E+00                |
| Arkansas | Drew County          | 05043 | R                    | 1.18E-03                                                                | 2.36E-03 | 5.57E-03 | 3.20E-02 | 3.83E-02 | 5.59E-02 | 5.72E-02 | 5.78E-02 | 0.00E+00                         | 3.01E-02          | 7.34E-03         | 7.92E-04          | 0.00E+00                |
| Arkansas | Faulkner County      | 05045 | U                    | 1.08E-02                                                                | 1.17E-02 | 1.89E-02 | 2.57E-02 | 2.90E-02 | 4.51E-02 | 5.15E-02 | 5.28E-02 | 0.00E+00                         | 1.99E-03          | 2.24E-02         | 4.56E-03          | 0.00E+00                |
| Arkansas | Franklin County      | 05047 | R                    | 6.97E-03                                                                | 7.27E-03 | 8.17E-03 | 9.67E-03 | 9.20E-03 | 9.85E-03 | 9.95E-03 | 9.99E-03 | 0.00E+00                         | 4.39E-03          | 4.38E-03         | 4.31E-04          | 0.00E+00                |
| Arkansas | Fulton County        | 05049 | R                    | 4.95E-03                                                                | 5.01E-03 | 5.18E-03 | 5.46E-03 | 5.44E-03 | 5.74E-03 | 5.91E-03 | 5.97E-03 | 0.00E+00                         | 3.10E-03          | 2.07E-03         | 2.80E-04          | 0.00E+00                |
| Arkansas | Garland County       | 05051 | R                    | 1.30E-02                                                                | 1.39E-02 | 1.55E-02 | 2.75E-02 | 2.64E-02 | 3.21E-02 | 4.32E-02 | 4.79E-02 | 0.00E+00                         | 7.88E-03          | 1.59E-02         | 2.58E-03          | 0.00E+00                |
| Arkansas | Grant County         | 05053 | R                    | 1.02E-02                                                                | 1.09E-02 | 1.29E-02 | 2.81E-02 | 2.68E-02 | 4.23E-02 | 4.24E-02 | 4.25E-02 | 0.00E+00                         | 1.71E-02          | 8.46E-03         | 1.29E-03          | 0.00E+00                |
| Arkansas | Greene County        | 05055 | U                    | 5.48E-03                                                                | 5.91E-03 | 7.29E-03 | 1.72E-02 | 2.06E-02 | 2.49E-02 | 3.47E-02 | 3.50E-02 | 1.17E-06                         | 3.62E-03          | 1.34E-02         | 3.57E-03          | 0.00E+00                |
| Arkansas | Hempstead County     | 05057 | R                    | 6.58E-03                                                                | 6.87E-03 | 7.75E-03 | 9.50E-03 | 2.08E-02 | 3.55E-02 | 3.59E-02 | 3.60E-02 | 0.00E+00                         | 1.21E-02          | 8.03E-03         | 6.85E-04          | 0.00E+00                |
| Arkansas | Hot Spring County    | 05059 | R                    | 1.21E-02                                                                | 1.24E-02 | 1.29E-02 | 1.52E-02 | 3.32E-02 | 5.88E-02 | 6.98E-02 | 7.13E-02 | 0.00E+00                         | 1.76E-02          | 1.44E-02         | 1.20E-03          | 0.00E+00                |
| Arkansas | Howard County        | 05061 | R                    | 5.50E-03                                                                | 5.56E-03 | 5.75E-03 | 6.06E-03 | 2.04E-02 | 2.63E-02 | 3.84E-02 | 4.25E-02 | 0.00E+00                         | 1.53E-02          | 4.61E-03         | 4.57E-04          | 0.00E+00                |
| Arkansas | Independence County  | 05063 | R                    | 6.68E-03                                                                | 6.96E-03 | 8.14E-03 | 1.83E-02 | 1.89E-02 | 3.20E-02 | 4.42E-02 | 4.68E-02 | 0.00E+00                         | 8.73E-03          | 9.46E-03         | 7.34E-04          | 0.00E+00                |
| Arkansas | Izard County         | 05065 | R                    | 5.59E-03                                                                | 5.72E-03 | 6.11E-03 | 6.91E-03 | 6.65E-03 | 7.60E-03 | 7.80E-03 | 7.86E-03 | 0.00E+00                         | 3.75E-03          | 2.49E-03         | 4.07E-04          | 0.00E+00                |
| Arkansas | Jackson County       | 05067 | R                    | 3.23E-03                                                                | 3.32E-03 | 3.58E-03 | 9.91E-03 | 9.56E-03 | 1.47E-02 | 1.47E-02 | 1.47E-02 | 4.41E-07                         | 2.31E-03          | 6.57E-03         | 6.82E-04          | 0.00E+00                |
| Arkansas | Jefferson County     | 05069 | U                    | 7.87E-03                                                                | 1.04E-02 | 1.62E-02 | 3.06E-02 | 4.00E-02 | 5.37E-02 | 6.51E-02 | 6.76E-02 | 0.00E+00                         | 7.60E-03          | 2.76E-02         | 4.76E-03          | 0.00E+00                |
| Arkansas | Johnson County       | 05071 | R                    | 8.81E-03                                                                | 9.06E-03 | 9.78E-03 | 1.64E-02 | 1.57E-02 | 2.36E-02 | 2.65E-02 | 2.78E-02 | 0.00E+00                         | 8.22E-03          | 6.83E-03         | 6.57E-04          | 0.00E+00                |
| Arkansas | Lafayette County     | 05073 | R                    | 8.06E-03                                                                | 8.62E-03 | 1.03E-02 | 1.31E-02 | 1.16E-02 | 1.32E-02 | 1.32E-02 | 1.33E-02 | 0.00E+00                         | 7.21E-03          | 3.89E-03         | 4.81E-04          | 0.00E+00                |
| Arkansas | Lawrence County      | 05075 | R                    | 4.39E-03                                                                | 4.63E-03 | 5.35E-03 | 6.05E-03 | 8.14E-03 | 6.63E-03 | 9.52E-03 | 1.05E-02 | 5.57E-07                         | 1.36E-03          | 6.13E-03         | 6.50E-04          | 0.00E+00                |
| Arkansas | Lee County           | 05077 | R                    | 2.73E-03                                                                | 2.73E-03 | 2.75E-03 | 2.85E-03 | 1.06E-02 | 6.96E-03 | 1.42E-02 | 1.66E-02 | 2.36E-06                         | 1.63E-03          | 3.90E-03         | 5.37E-04          | 0.00E+00                |
| Arkansas | Lincoln County       | 05079 | R                    | 4.88E-03                                                                | 5.03E-03 | 5.48E-03 | 9.06E-03 | 1.29E-02 | 1.07E-02 | 2.85E-02 | 3.45E-02 | 0.00E+00                         | 6.96E-03          | 5.35E-03         | 5.62E-04          | 0.00E+00                |
| Arkansas | Little River County  | 05081 | R                    | 6.19E-03                                                                | 6.22E-03 | 6.32E-03 | 6.49E-03 | 6.93E-03 | 8.15E-03 | 9.14E-03 | 9.47E-03 | 0.00E+00                         | 3.22E-03          | 3.07E-03         | 6.34E-04          | 0.00E+00                |
| Arkansas | Logan County         | 05083 | R                    | 4.62E-03                                                                | 5.83E-03 | 8.29E-03 | 1.41E-02 | 1.98E-02 | 2.14E-02 | 3.88E-02 | 4.72E-02 | 0.00E+00                         | 1.22E-02          | 6.82E-03         | 7.36E-04          | 0.00E+00                |
| Arkansas | Lonoke County        | 05085 | U                    | 4.79E-03                                                                | 4.80E-03 | 6.99E-03 | 8.20E-03 | 1.29E-02 | 1.03E-02 | 1.72E-02 | 2.08E-02 | 0.00E+00                         | 1.66E-03          | 8.85E-03         | 2.34E-03          | 0.00E+00                |
| Arkansas | Madison County       | 05087 | R                    | 5.74E-03                                                                | 5.82E-03 | 6.06E-03 | 1.00E-02 | 1.68E-02 | 2.20E-02 | 3.66E-02 | 4.15E-02 | 0.00E+00                         | 1.20E-02          | 4.09E-03         | 6.74E-04          | 0.00E+00                |
| Arkansas | Marion County        | 05089 | R                    | 6.44E-03                                                                | 6.49E-03 | 6.65E-03 | 6.92E-03 | 9.15E-03 | 9.48E-03 | 1.10E-02 | 1.15E-02 | 0.00E+00                         | 4.79E-03          | 3.12E-03         | 1.24E-03          | 0.00E+00                |

| State      | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|            |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|            |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Arkansas   | Miller County        | 05091 | U                    | 1.27E-02                                                                | 1.35E-02 | 3.22E-02 | 5.54E-02 | 4.28E-02 | 6.73E-02 | 7.59E-02 | 8.45E-02 | 3.50E-13                         | 9.91E-03          | 2.67E-02         | 6.23E-03          | 0.00E+00                |
| Arkansas   | Mississippi County   | 05093 | U                    | 3.92E-03                                                                | 4.01E-03 | 4.35E-03 | 2.25E-02 | 1.81E-02 | 2.31E-02 | 2.38E-02 | 3.25E-02 | 1.53E-05                         | 1.43E-03          | 1.29E-02         | 3.80E-03          | 0.00E+00                |
| Arkansas   | Monroe County        | 05095 | R                    | 4.70E-03                                                                | 4.74E-03 | 4.84E-03 | 5.00E-03 | 5.79E-03 | 6.82E-03 | 7.91E-03 | 8.28E-03 | 2.10E-07                         | 2.79E-03          | 2.45E-03         | 5.61E-04          | 0.00E+00                |
| Arkansas   | Montgomery County    | 05097 | R                    | 6.47E-03                                                                | 6.52E-03 | 6.69E-03 | 6.98E-03 | 7.33E-03 | 7.64E-03 | 8.04E-03 | 8.17E-03 | 0.00E+00                         | 5.49E-03          | 1.57E-03         | 2.65E-04          | 0.00E+00                |
| Arkansas   | Nevada County        | 05099 | R                    | 5.20E-03                                                                | 5.32E-03 | 5.69E-03 | 6.30E-03 | 6.43E-03 | 8.42E-03 | 9.68E-03 | 1.01E-02 | 0.00E+00                         | 4.31E-03          | 1.93E-03         | 1.88E-04          | 0.00E+00                |
| Arkansas   | Newton County        | 05101 | R                    | 3.06E-03                                                                | 3.71E-03 | 5.66E-03 | 8.90E-03 | 8.09E-03 | 1.22E-02 | 1.41E-02 | 1.48E-02 | 0.00E+00                         | 6.21E-03          | 1.72E-03         | 1.54E-04          | 0.00E+00                |
| Arkansas   | Ouachita County      | 05103 | R                    | 1.47E-02                                                                | 1.52E-02 | 1.66E-02 | 2.93E-02 | 3.22E-02 | 4.60E-02 | 5.24E-02 | 5.47E-02 | 0.00E+00                         | 1.88E-02          | 1.23E-02         | 1.08E-03          | 0.00E+00                |
| Arkansas   | Perry County         | 05105 | R                    | 7.98E-03                                                                | 8.01E-03 | 8.10E-03 | 8.26E-03 | 8.42E-03 | 8.51E-03 | 8.67E-03 | 8.72E-03 | 0.00E+00                         | 3.09E-03          | 4.21E-03         | 1.12E-03          | 0.00E+00                |
| Arkansas   | Phillips County      | 05107 | U                    | 3.89E-03                                                                | 3.93E-03 | 7.33E-03 | 1.74E-02 | 1.55E-02 | 2.26E-02 | 2.44E-02 | 2.44E-02 | 2.80E-06                         | 4.45E-03          | 8.36E-03         | 2.71E-03          | 0.00E+00                |
| Arkansas   | Pike County          | 05109 | R                    | 7.01E-03                                                                | 7.10E-03 | 7.37E-03 | 7.81E-03 | 9.24E-03 | 1.05E-02 | 1.21E-02 | 1.27E-02 | 0.00E+00                         | 6.42E-03          | 2.51E-03         | 3.12E-04          | 0.00E+00                |
| Arkansas   | Poinsett County      | 05111 | R                    | 3.49E-03                                                                | 3.55E-03 | 3.92E-03 | 5.21E-03 | 7.54E-03 | 1.12E-02 | 1.40E-02 | 1.40E-02 | 2.97E-05                         | 6.46E-04          | 6.18E-03         | 6.89E-04          | 0.00E+00                |
| Arkansas   | Polk County          | 05113 | R                    | 2.77E-03                                                                | 3.32E-03 | 4.91E-03 | 1.04E-02 | 1.26E-02 | 1.63E-02 | 1.87E-02 | 1.96E-02 | 0.00E+00                         | 8.47E-03          | 3.80E-03         | 3.12E-04          | 0.00E+00                |
| Arkansas   | Pope County          | 05115 | U                    | 9.68E-03                                                                | 1.00E-02 | 1.02E-02 | 1.68E-02 | 2.26E-02 | 3.05E-02 | 3.70E-02 | 3.85E-02 | 0.00E+00                         | 5.31E-03          | 1.47E-02         | 2.58E-03          | 0.00E+00                |
| Arkansas   | Prairie County       | 05117 | R                    | 3.45E-03                                                                | 3.48E-03 | 3.57E-03 | 3.70E-03 | 3.60E-03 | 3.73E-03 | 3.74E-03 | 3.74E-03 | 0.00E+00                         | 1.07E-03          | 1.99E-03         | 5.39E-04          | 0.00E+00                |
| Arkansas   | Pulaski County       | 05119 | U                    | 3.22E-02                                                                | 4.01E-02 | 6.17E-02 | 8.10E-02 | 8.16E-02 | 1.09E-01 | 1.31E-01 | 1.35E-01 | 0.00E+00                         | 2.74E-03          | 6.32E-02         | 1.57E-02          | 0.00E+00                |
| Arkansas   | Randolph County      | 05121 | R                    | 6.07E-03                                                                | 6.26E-03 | 6.83E-03 | 7.77E-03 | 1.36E-02 | 1.54E-02 | 2.00E-02 | 2.15E-02 | 0.00E+00                         | 7.07E-03          | 5.89E-03         | 5.98E-04          | 0.00E+00                |
| Arkansas   | St. Francis County   | 05123 | R                    | 3.92E-03                                                                | 3.95E-03 | 5.38E-03 | 1.21E-02 | 1.52E-02 | 2.61E-02 | 3.02E-02 | 3.03E-02 | 3.26E-05                         | 4.83E-03          | 9.46E-03         | 8.84E-04          | 0.00E+00                |
| Arkansas   | Saline County        | 05125 | U                    | 1.99E-02                                                                | 2.29E-02 | 2.46E-02 | 3.30E-02 | 3.65E-02 | 3.87E-02 | 5.63E-02 | 6.84E-02 | 0.00E+00                         | 8.69E-03          | 2.27E-02         | 5.11E-03          | 0.00E+00                |
| Arkansas   | Scott County         | 05127 | R                    | 4.94E-03                                                                | 5.43E-03 | 6.91E-03 | 9.38E-03 | 2.03E-02 | 2.67E-02 | 3.70E-02 | 4.05E-02 | 0.00E+00                         | 1.65E-02          | 3.40E-03         | 3.05E-04          | 0.00E+00                |
| Arkansas   | Searcy County        | 05129 | R                    | 3.04E-03                                                                | 3.32E-03 | 4.16E-03 | 5.57E-03 | 7.80E-03 | 9.15E-03 | 1.13E-02 | 1.20E-02 | 0.00E+00                         | 5.63E-03          | 1.97E-03         | 2.06E-04          | 0.00E+00                |
| Arkansas   | Sebastian County     | 05131 | U                    | 1.59E-02                                                                | 2.02E-02 | 3.53E-02 | 4.42E-02 | 4.46E-02 | 5.90E-02 | 6.76E-02 | 7.02E-02 | 0.00E+00                         | 2.35E-03          | 3.56E-02         | 6.60E-03          | 0.00E+00                |
| Arkansas   | Sevier County        | 05133 | R                    | 7.43E-04                                                                | 1.49E-03 | 3.72E-03 | 6.90E-03 | 8.94E-03 | 9.63E-03 | 1.21E-02 | 1.29E-02 | 0.00E+00                         | 3.47E-03          | 4.99E-03         | 4.82E-04          | 0.00E+00                |
| Arkansas   | Sharp County         | 05135 | R                    | 5.54E-03                                                                | 5.72E-03 | 6.24E-03 | 6.64E-03 | 1.04E-02 | 9.67E-03 | 1.49E-02 | 1.67E-02 | 0.00E+00                         | 5.95E-03          | 4.14E-03         | 2.95E-04          | 0.00E+00                |
| Arkansas   | Stone County         | 05137 | R                    | 6.01E-03                                                                | 6.17E-03 | 6.65E-03 | 7.44E-03 | 7.92E-03 | 8.24E-03 | 8.71E-03 | 8.87E-03 | 0.00E+00                         | 5.67E-03          | 2.06E-03         | 1.95E-04          | 0.00E+00                |
| Arkansas   | Union County         | 05139 | R                    | 1.49E-02                                                                | 1.85E-02 | 2.25E-02 | 4.65E-02 | 5.43E-02 | 8.80E-02 | 9.98E-02 | 1.04E-01 | 0.00E+00                         | 3.17E-02          | 2.09E-02         | 1.69E-03          | 0.00E+00                |
| Arkansas   | Van Buren County     | 05141 | R                    | 7.07E-03                                                                | 7.07E-03 | 7.07E-03 | 7.38E-03 | 7.54E-03 | 7.79E-03 | 7.96E-03 | 8.02E-03 | 0.00E+00                         | 3.92E-03          | 3.20E-03         | 4.20E-04          | 0.00E+00                |
| Arkansas   | Washington County    | 05143 | U                    | 1.41E-02                                                                | 1.50E-02 | 2.13E-02 | 3.34E-02 | 3.94E-02 | 5.16E-02 | 7.03E-02 | 7.74E-02 | 0.00E+00                         | 2.73E-03          | 3.00E-02         | 6.71E-03          | 0.00E+00                |
| Arkansas   | White County         | 05145 | R                    | 7.23E-03                                                                | 7.75E-03 | 9.18E-03 | 1.23E-02 | 1.91E-02 | 2.90E-02 | 3.95E-02 | 4.44E-02 | 0.00E+00                         | 5.99E-03          | 1.18E-02         | 1.31E-03          | 0.00E+00                |
| Arkansas   | Woodruff County      | 05147 | R                    | 3.04E-03                                                                | 3.05E-03 | 3.08E-03 | 3.13E-03 | 3.11E-03 | 3.18E-03 | 3.21E-03 | 3.22E-03 | 1.28E-06                         | 1.13E-03          | 1.70E-03         | 2.75E-04          | 0.00E+00                |
| Arkansas   | Yell County          | 05149 | R                    | 7.49E-03                                                                | 7.53E-03 | 7.65E-03 | 1.07E-02 | 1.03E-02 | 1.43E-02 | 1.53E-02 | 1.56E-02 | 0.00E+00                         | 5.14E-03          | 4.48E-03         | 6.89E-04          | 0.00E+00                |
| California | Statewide            | 06000 | -                    | 4.59E-03                                                                | 1.14E-02 | 2.52E-02 | 5.27E-02 | 5.81E-02 | 7.80E-02 | 1.01E-01 | 1.19E-01 | 1.09E-03                         | 2.95E-03          | 4.85E-02         | 5.54E-03          | 0.00E+00                |
| California | State Urban Counties | 06000 | U                    | 4.97E-03                                                                | 1.27E-02 | 2.70E-02 | 5.45E-02 | 5.94E-02 | 7.90E-02 | 1.02E-01 | 1.20E-01 | 1.13E-03                         | 2.49E-03          | 5.00E-02         | 5.73E-03          | 0.00E+00                |
| California | State Rural Counties | 06000 | R                    | 3.69E-03                                                                | 5.01E-03 | 8.48E-03 | 1.48E-02 | 2.26E-02 | 2.73E-02 | 4.76E-02 | 5.99E-02 | 6.20E-08                         | 1.59E-02          | 6.30E-03         | 4.05E-04          | 0.00E+00                |
| California | Alameda County       | 06001 | U                    | 1.87E-02                                                                | 3.34E-02 | 5.07E-02 | 6.20E-02 | 6.28E-02 | 7.32E-02 | 8.33E-02 | 9.43E-02 | 4.85E-05                         | 1.68E-03          | 5.77E-02         | 3.43E-03          | 0.00E+00                |
| California | Alpine County        | 06003 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 6.25E-03 | 8.33E-03 | 0.00E+00                         | 8.54E-03          | 1.50E-03         | 3.82E-04          | 0.00E+00                |
| California | Amador County        | 06005 | R                    | 6.76E-03                                                                | 7.32E-03 | 8.99E-03 | 1.68E-02 | 1.47E-02 | 2.48E-02 | 2.49E-02 | 2.49E-02 | 3.16E-08                         | 1.03E-02          | 4.29E-03         | 1.40E-04          | 0.00E+00                |
| California | Butte County         | 06007 | R                    | 4.52E-03                                                                | 7.58E-03 | 1.04E-02 | 1.62E-02 | 2.15E-02 | 3.23E-02 | 4.00E-02 | 5.81E-02 | 0.00E+00                         | 1.36E-02          | 7.35E-03         | 5.58E-04          | 0.00E+00                |
| California | Calaveras County     | 06009 | R                    | 6.75E-03                                                                | 7.81E-03 | 1.10E-02 | 1.11E-02 | 1.13E-02 | 1.40E-02 | 1.63E-02 | 1.70E-02 | 1.52E-06                         | 8.16E-03          | 3.07E-03         | 1.14E-04          | 0.00E+00                |
| California | Colusa County        | 06011 | R                    | 3.14E-03                                                                | 3.48E-03 | 4.48E-03 | 4.63E-03 | 4.90E-03 | 6.35E-03 | 6.40E-03 | 6.41E-03 | 5.74E-08                         | 2.94E-03          | 1.86E-03         | 9.56E-05          | 0.00E+00                |
| California | Contra Costa County  | 06013 | U                    | 1.60E-02                                                                | 1.89E-02 | 2.82E-02 | 3.44E-02 | 3.62E-02 | 4.25E-02 | 5.35E-02 | 5.89E-02 | 6.06E-04                         | 2.00E-03          | 3.20E-02         | 1.58E-03          | 0.00E+00                |
| California | Del Norte County     | 06015 | R                    | 8.02E-03                                                                | 8.20E-03 | 8.74E-03 | 9.65E-03 | 1.38E-02 | 1.32E-02 | 1.53E-02 | 1.61E-02 | 0.00E+00                         | 1.12E-02          | 2.32E-03         | 3.57E-04          | 0.00E+00                |
| California | El Dorado County     | 06017 | U                    | 0.00E+00                                                                | 9.29E-03 | 1.40E-02 | 2.61E-02 | 3.22E-02 | 4.17E-02 | 6.69E-02 | 8.50E-02 | 6.09E-14                         | 2.03E-02          | 1.16E-02         | 3.96E-04          | 0.00E+00                |
| California | Fresno County        | 06019 | U                    | 5.97E-03                                                                | 6.92E-03 | 1.02E-02 | 1.65E-02 | 1.79E-02 | 2.11E-02 | 2.54E-02 | 2.80E-02 | 3.29E-10                         | 2.02E-03          | 1.56E-02         | 3.00E-04          | 0.00E+00                |
| California | Glenn County         | 06021 | R                    | 4.43E-03                                                                | 4.60E-03 | 5.12E-03 | 1.28E-02 | 1.09E-02 | 1.40E-02 | 1.41E-02 | 1.41E-02 | 0.00E+00                         | 6.17E-03          | 4.36E-03         | 4.07E-04          | 0.00E+00                |
| California | Humboldt County      | 06023 | R                    | 1.41E-02                                                                | 1.43E-02 | 2.15E-02 | 2.58E-02 | 3.01E-02 | 3.58E-02 | 5.03E-02 | 5.63E-02 | 0.00E+00                         | 2.35E-02          | 5.80E-03         | 7.57E-04          | 0.00E+00                |
| California | Imperial County      | 06025 | U                    | 1.74E-03                                                                | 1.91E-03 | 2.70E-03 | 4.49E-03 | 5.81E-03 | 6.38E-03 | 1.00E-02 | 1.03E-02 | 2.57E-07                         | 5.32E-05          | 5.52E-03         | 2.46E-04          | 0.00E+00                |
| California | Inyo County          | 06027 | R                    | 2.01E-04                                                                | 2.61E-04 | 3.90E-04 | 3.79E-03 | 5.73E-03 | 7.44E-03 | 1.04E-02 | 1.07E-02 | 3.79E-12                         | 3.01E-03          | 2.28E-03         | 4.42E-04          | 0.00E+00                |
| California | Kern County          | 06029 | U                    | 3.99E-03                                                                | 5.01E-03 | 9.38E-03 | 1.42E-02 | 1.60E-02 | 2.16E-02 | 2.80E-02 | 3.35E-02 | 6.00E-05                         | 5.40E-03          | 1.03E-02         | 2.23E-04          | 0.00E+00                |
| California | Kings County         | 06031 | U                    | 3.20E-03                                                                | 3.63E-03 | 4.84E-03 | 8.47E-03 | 8.26E-03 | 1.06E-02 | 1.24E-02 | 1.31E-02 | 1.70E-08                         | 8.27E-04          | 7.11E-03         | 3.21E-04          | 0.00E+00                |
| California | Lake County          | 06033 | R                    | 7.82E-03                                                                | 8.70E-03 | 9.55E-03 | 1.74E-02 | 2.72E-02 | 2.82E-02 | 5.57E-02 | 6.16E-02 | 1.84E-07                         | 2.03E-02          | 6.64E-03         | 2.52E-04          | 0.00E+00                |
| California | Lassen County        | 06035 | R                    | 3.88E-03                                                                | 4.19E-03 | 5.79E-03 | 8.86E-03 | 1.11E-02 | 1.21E-02 | 1.42E-02 | 1.47E-02 | 0.00E+00                         | 9.79E-03          | 1.26E-03         | 6.25E-05          | 0.00E+00                |
| California | Los Angeles County   | 06037 | U                    | 4.68E-02                                                                | 5.52E-02 | 6.60E-02 | 8.05E-02 | 8.73E-02 | 9.63E-02 | 1.14E-01 | 1.29E-01 | 3.53E-03                         | 1.11E-03          | 7.28E-02         | 9.85E-03          | 0.00E+00                |

| State      | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|            |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|            |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| California | Madera County        | 06039 | U                    | 0.00E+00                                                                | 2.09E-03 | 3.98E-03 | 1.20E-02 | 1.48E-02 | 1.43E-02 | 2.54E-02 | 3.22E-02 | 7.13E-15                         | 6.59E-03          | 8.07E-03         | 1.22E-04          | 0.00E+00                |
| California | Marin County         | 06041 | U                    | 1.39E-02                                                                | 1.94E-02 | 2.36E-02 | 3.23E-02 | 3.37E-02 | 4.03E-02 | 4.60E-02 | 5.78E-02 | 1.97E-05                         | 7.96E-03          | 2.47E-02         | 1.06E-03          | 0.00E+00                |
| California | Mariposa County      | 06043 | R                    | 7.87E-03                                                                | 8.62E-03 | 1.09E-02 | 1.28E-02 | 1.25E-02 | 1.35E-02 | 1.35E-02 | 1.36E-02 | 8.32E-13                         | 1.06E-02          | 1.82E-03         | 5.30E-05          | 0.00E+00                |
| California | Mendocino County     | 06045 | R                    | 5.20E-03                                                                | 6.54E-03 | 7.84E-03 | 2.76E-02 | 3.65E-02 | 4.77E-02 | 6.74E-02 | 7.44E-02 | 1.23E-12                         | 3.03E-02          | 6.05E-03         | 1.71E-04          | 0.00E+00                |
| California | Merced County        | 06047 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 5.14E-03 | 1.09E-02 | 1.16E-02 | 1.52E-02 | 1.59E-02 | 8.50E-09                         | 2.85E-04          | 1.03E-02         | 3.42E-04          | 0.00E+00                |
| California | Modoc County         | 06049 | R                    | 8.72E-03                                                                | 1.18E-02 | 2.10E-02 | 3.64E-02 | 3.28E-02 | 5.17E-02 | 6.09E-02 | 6.40E-02 | 0.00E+00                         | 3.23E-02          | 4.40E-04         | 4.12E-05          | 0.00E+00                |
| California | Mono County          | 06051 | R                    | 2.62E-03                                                                | 3.35E-03 | 5.52E-03 | 9.14E-03 | 8.86E-03 | 1.28E-02 | 1.49E-02 | 1.57E-02 | 0.00E+00                         | 8.25E-03          | 5.82E-04         | 2.73E-05          | 0.00E+00                |
| California | Monterey County      | 06053 | U                    | 4.36E-03                                                                | 5.73E-03 | 1.17E-02 | 1.95E-02 | 1.93E-02 | 2.82E-02 | 3.23E-02 | 4.12E-02 | 9.84E-10                         | 4.70E-03          | 1.44E-02         | 1.95E-04          | 0.00E+00                |
| California | Napa County          | 06055 | U                    | 8.05E-03                                                                | 1.06E-02 | 1.16E-02 | 2.07E-02 | 2.21E-02 | 2.85E-02 | 3.53E-02 | 3.86E-02 | 1.68E-05                         | 9.26E-03          | 1.25E-02         | 3.06E-04          | 0.00E+00                |
| California | Nevada County        | 06057 | R                    | 1.52E-02                                                                | 1.67E-02 | 2.09E-02 | 3.05E-02 | 3.73E-02 | 4.28E-02 | 5.15E-02 | 5.54E-02 | 2.63E-09                         | 2.13E-02          | 1.55E-02         | 5.10E-04          | 0.00E+00                |
| California | Orange County        | 06059 | U                    | 4.63E-02                                                                | 5.26E-02 | 6.18E-02 | 7.57E-02 | 8.00E-02 | 9.25E-02 | 1.11E-01 | 1.22E-01 | 9.55E-05                         | 2.67E-03          | 6.78E-02         | 9.34E-03          | 0.00E+00                |
| California | Placer County        | 06061 | U                    | 9.57E-03                                                                | 1.17E-02 | 1.59E-02 | 2.28E-02 | 2.42E-02 | 3.30E-02 | 4.95E-02 | 5.57E-02 | 1.63E-08                         | 8.44E-03          | 1.53E-02         | 3.86E-04          | 0.00E+00                |
| California | Plumas County        | 06063 | R                    | 1.22E-02                                                                | 1.27E-02 | 1.43E-02 | 1.66E-02 | 3.18E-02 | 1.90E-02 | 5.18E-02 | 6.28E-02 | 0.00E+00                         | 2.98E-02          | 1.82E-03         | 1.67E-04          | 0.00E+00                |
| California | Riverside County     | 06065 | U                    | 1.29E-02                                                                | 1.54E-02 | 2.00E-02 | 2.69E-02 | 2.92E-02 | 3.43E-02 | 4.29E-02 | 5.17E-02 | 8.80E-06                         | 2.42E-03          | 2.46E-02         | 2.18E-03          | 0.00E+00                |
| California | Sacramento County    | 06067 | U                    | 1.64E-02                                                                | 2.25E-02 | 2.87E-02 | 3.28E-02 | 3.36E-02 | 3.92E-02 | 4.68E-02 | 5.35E-02 | 2.78E-06                         | 6.69E-04          | 3.20E-02         | 8.79E-04          | 0.00E+00                |
| California | San Benito County    | 06069 | U                    | 1.58E-03                                                                | 3.17E-03 | 5.61E-03 | 1.36E-02 | 2.07E-02 | 2.89E-02 | 3.49E-02 | 4.59E-02 | 2.36E-08                         | 1.14E-02          | 9.07E-03         | 2.69E-04          | 0.00E+00                |
| California | San Bernardino Count | 06071 | U                    | 6.38E-03                                                                | 1.09E-02 | 1.78E-02 | 2.33E-02 | 2.63E-02 | 3.19E-02 | 4.32E-02 | 4.99E-02 | 9.87E-05                         | 1.78E-03          | 2.26E-02         | 1.88E-03          | 0.00E+00                |
| California | San Diego County     | 06073 | U                    | 2.56E-02                                                                | 3.04E-02 | 3.84E-02 | 4.95E-02 | 5.15E-02 | 6.39E-02 | 8.19E-02 | 9.65E-02 | 2.25E-05                         | 1.87E-03          | 4.32E-02         | 6.47E-03          | 0.00E+00                |
| California | San Francisco County | 06075 | U                    | 7.54E-02                                                                | 8.60E-02 | 1.07E-01 | 1.43E-01 | 1.54E-01 | 1.76E-01 | 2.20E-01 | 2.41E-01 | 1.48E-05                         | 4.28E-04          | 1.43E-01         | 1.06E-02          | 0.00E+00                |
| California | San Joaquin County   | 06077 | U                    | 8.03E-03                                                                | 1.11E-02 | 1.62E-02 | 2.16E-02 | 2.34E-02 | 2.65E-02 | 3.44E-02 | 3.60E-02 | 2.43E-05                         | 9.91E-04          | 2.16E-02         | 8.04E-04          | 0.00E+00                |
| California | San Luis Obispo Coun | 06079 | U                    | 1.30E-03                                                                | 5.43E-03 | 7.95E-03 | 1.58E-02 | 2.24E-02 | 2.94E-02 | 4.31E-02 | 4.62E-02 | 1.44E-06                         | 1.40E-02          | 7.65E-03         | 8.24E-04          | 0.00E+00                |
| California | San Mateo County     | 06081 | U                    | 0.00E+00                                                                | 2.85E-02 | 4.32E-02 | 5.69E-02 | 6.07E-02 | 6.62E-02 | 8.38E-02 | 9.17E-02 | 3.69E-06                         | 1.11E-03          | 5.09E-02         | 8.65E-03          | 0.00E+00                |
| California | Santa Barbara County | 06083 | U                    | 6.25E-03                                                                | 1.01E-02 | 1.94E-02 | 2.87E-02 | 3.42E-02 | 4.38E-02 | 7.15E-02 | 8.43E-02 | 1.53E-07                         | 1.41E-02          | 1.82E-02         | 1.95E-03          | 0.00E+00                |
| California | Santa Clara County   | 06085 | U                    | 0.00E+00                                                                | 0.00E+00 | 3.54E-02 | 5.53E-02 | 6.38E-02 | 6.82E-02 | 7.95E-02 | 8.84E-02 | 1.34E-06                         | 3.65E-03          | 5.39E-02         | 6.22E-03          | 0.00E+00                |
| California | Santa Cruz County    | 06087 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.38E-02 | 2.79E-02 | 2.97E-02 | 3.70E-02 | 3.89E-02 | 2.38E-07                         | 3.39E-03          | 2.37E-02         | 7.92E-04          | 0.00E+00                |
| California | Shasta County        | 06089 | U                    | 4.06E-03                                                                | 1.07E-02 | 2.39E-02 | 3.52E-02 | 3.53E-02 | 4.48E-02 | 5.24E-02 | 6.45E-02 | 0.00E+00                         | 2.11E-02          | 1.39E-02         | 4.31E-04          | 0.00E+00                |
| California | Sierra County        | 06091 | R                    | 1.90E-02                                                                | 1.90E-02 | 1.90E-02 | 1.90E-02 | 1.90E-02 | 1.90E-02 | 1.90E-02 | 1.90E-02 | 0.00E+00                         | 1.57E-02          | 2.76E-03         | 5.58E-04          | 0.00E+00                |
| California | Siskiyou County      | 06093 | R                    | 5.09E-03                                                                | 5.51E-03 | 1.02E-02 | 1.41E-02 | 1.61E-02 | 2.08E-02 | 2.56E-02 | 3.27E-02 | 0.00E+00                         | 1.50E-02          | 1.06E-03         | 6.19E-05          | 0.00E+00                |
| California | Solano County        | 06095 | U                    | 7.78E-03                                                                | 1.10E-02 | 1.69E-02 | 2.24E-02 | 2.28E-02 | 2.90E-02 | 3.28E-02 | 3.55E-02 | 1.03E-04                         | 2.05E-03          | 2.00E-02         | 6.50E-04          | 0.00E+00                |
| California | Sonoma County        | 06097 | U                    | 1.00E-02                                                                | 1.16E-02 | 1.62E-02 | 2.25E-02 | 2.28E-02 | 2.72E-02 | 3.34E-02 | 3.90E-02 | 1.46E-06                         | 5.00E-03          | 1.73E-02         | 4.96E-04          | 0.00E+00                |
| California | Stanislaus County    | 06099 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.20E-03 | 1.62E-02 | 1.83E-02 | 2.09E-02 | 2.48E-02 | 2.68E-02 | 4.47E-07                         | 4.33E-04          | 1.74E-02         | 5.02E-04          | 0.00E+00                |
| California | Sutter County        | 06101 | R                    | 5.00E-03                                                                | 5.43E-03 | 6.09E-03 | 1.29E-02 | 1.33E-02 | 1.56E-02 | 1.57E-02 | 1.87E-02 | 4.61E-08                         | 1.84E-03          | 1.11E-02         | 3.61E-04          | 0.00E+00                |
| California | Tehama County        | 06103 | R                    | 2.75E-03                                                                | 5.10E-03 | 8.76E-03 | 1.49E-02 | 2.02E-02 | 2.16E-02 | 3.09E-02 | 4.18E-02 | 0.00E+00                         | 1.53E-02          | 4.64E-03         | 2.19E-04          | 0.00E+00                |
| California | Trinity County       | 06105 | R                    | 8.03E-03                                                                | 8.28E-03 | 9.02E-03 | 9.82E-03 | 1.00E-02 | 1.03E-02 | 1.06E-02 | 1.07E-02 | 0.00E+00                         | 9.76E-03          | 2.52E-04         | 2.74E-05          | 0.00E+00                |
| California | Tulare County        | 06107 | U                    | 6.66E-03                                                                | 7.76E-03 | 1.40E-02 | 2.08E-02 | 2.45E-02 | 3.20E-02 | 4.17E-02 | 5.49E-02 | 1.88E-07                         | 1.02E-02          | 1.41E-02         | 2.46E-04          | 0.00E+00                |
| California | Tuolumne County      | 06109 | R                    | 1.03E-02                                                                | 1.20E-02 | 2.70E-02 | 3.59E-02 | 3.70E-02 | 5.14E-02 | 5.70E-02 | 6.33E-02 | 4.52E-12                         | 2.95E-02          | 6.63E-03         | 8.94E-04          | 0.00E+00                |
| California | Ventura County       | 06111 | U                    | 1.49E-02                                                                | 1.72E-02 | 2.33E-02 | 3.45E-02 | 3.62E-02 | 4.49E-02 | 5.25E-02 | 5.80E-02 | 1.89E-05                         | 2.62E-03          | 3.20E-02         | 1.53E-03          | 0.00E+00                |
| California | Yolo County          | 06113 | U                    | 8.38E-03                                                                | 8.67E-03 | 1.43E-02 | 1.74E-02 | 1.89E-02 | 2.30E-02 | 2.96E-02 | 3.08E-02 | 1.96E-06                         | 7.58E-04          | 1.74E-02         | 7.31E-04          | 0.00E+00                |
| California | Yuba County          | 06115 | R                    | 5.99E-03                                                                | 6.53E-03 | 7.46E-03 | 9.90E-03 | 1.10E-02 | 1.33E-02 | 1.41E-02 | 1.44E-02 | 0.00E+00                         | 2.70E-03          | 7.80E-03         | 4.94E-04          | 0.00E+00                |
| Colorado   | Statewide            | 08000 | -                    | 0.00E+00                                                                | 5.97E-04 | 1.80E-02 | 6.26E-02 | 8.31E-02 | 1.13E-01 | 1.57E-01 | 1.84E-01 | 4.77E-09                         | 4.27E-03          | 6.76E-02         | 1.12E-02          | 0.00E+00                |
| Colorado   | State Urban Counties | 08000 | U                    | 0.00E+00                                                                | 0.00E+00 | 3.33E-02 | 7.56E-02 | 9.22E-02 | 1.21E-01 | 1.64E-01 | 1.93E-01 | 5.58E-09                         | 2.32E-03          | 7.71E-02         | 1.28E-02          | 0.00E+00                |
| Colorado   | State Rural Counties | 08000 | R                    | 5.06E-04                                                                | 6.90E-04 | 6.19E-03 | 1.52E-02 | 2.98E-02 | 3.58E-02 | 5.99E-02 | 7.47E-02 | 3.35E-11                         | 1.56E-02          | 1.27E-02         | 1.52E-03          | 0.00E+00                |
| Colorado   | Adams County         | 08001 | U                    | 0.00E+00                                                                | 0.00E+00 | 4.37E-02 | 7.64E-02 | 8.19E-02 | 8.61E-02 | 1.15E-01 | 1.24E-01 | 1.12E-08                         | 6.10E-04          | 7.02E-02         | 1.11E-02          | 0.00E+00                |
| Colorado   | Alamosa County       | 08003 | U                    | 1.49E-02                                                                | 1.87E-02 | 3.00E-02 | 3.65E-02 | 3.48E-02 | 3.69E-02 | 3.73E-02 | 3.74E-02 | 0.00E+00                         | 5.63E-03          | 2.43E-02         | 4.83E-03          | 0.00E+00                |
| Colorado   | Arapahoe County      | 08005 | U                    | 0.00E+00                                                                | 0.00E+00 | 8.98E-02 | 1.13E-01 | 1.17E-01 | 1.27E-01 | 1.49E-01 | 1.71E-01 | 4.85E-09                         | 1.50E-03          | 9.83E-02         | 1.70E-02          | 0.00E+00                |
| Colorado   | Archuleta County     | 08007 | R                    | 6.83E-03                                                                | 6.91E-03 | 7.18E-03 | 7.63E-03 | 1.86E-02 | 2.74E-02 | 3.93E-02 | 4.33E-02 | 3.16E-13                         | 1.60E-02          | 2.50E-03         | 1.12E-04          | 0.00E+00                |
| Colorado   | Baca County          | 08009 | R                    | 3.34E-04                                                                | 3.61E-04 | 4.40E-04 | 5.41E-04 | 5.63E-04 | 6.00E-04 | 6.02E-04 | 6.03E-04 | 0.00E+00                         | 4.46E-06          | 5.34E-04         | 2.53E-05          | 0.00E+00                |
| Colorado   | Bent County          | 08011 | U                    | 1.56E-03                                                                | 1.67E-03 | 2.03E-03 | 2.61E-03 | 3.29E-03 | 3.20E-03 | 3.55E-03 | 3.66E-03 | 0.00E+00                         | 5.97E-04          | 2.41E-03         | 2.78E-04          | 0.00E+00                |
| Colorado   | Boulder County       | 08013 | U                    | 2.61E-02                                                                | 2.79E-02 | 4.36E-02 | 6.78E-02 | 6.77E-02 | 8.06E-02 | 9.24E-02 | 1.01E-01 | 9.97E-10                         | 5.73E-03          | 5.15E-02         | 1.04E-02          | 0.00E+00                |
| Colorado   | Chaffee County       | 08015 | R                    | 1.58E-02                                                                | 1.64E-02 | 1.83E-02 | 3.45E-02 | 5.00E-02 | 7.14E-02 | 1.11E-01 | 1.24E-01 | 0.00E+00                         | 2.80E-02          | 1.31E-02         | 8.90E-03          | 0.00E+00                |
| Colorado   | Cheyenne County      | 08017 | R                    | 3.38E-04                                                                | 3.40E-04 | 3.47E-04 | 3.57E-04 | 3.66E-04 | 3.67E-04 | 3.74E-04 | 3.76E-04 | 0.00E+00                         | 2.97E-06          | 3.32E-04         | 3.08E-05          | 0.00E+00                |
| Colorado   | Clear Creek County   | 08019 | R                    | 1.33E-02                                                                | 1.43E-02 | 1.73E-02 | 2.24E-02 | 2.98E-02 | 4.48E-02 | 5.82E-02 | 6.27E-02 | 6.91E-10                         | 1.29E-02          | 1.54E-02         | 1.52E-03          | 0.00E+00                |

| State    | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Colorado | Conejos County    | 08021 | R                    | 9.89E-03                                                                | 1.03E-02 | 1.14E-02 | 1.22E-02 | 1.40E-02 | 1.42E-02 | 1.76E-02 | 1.88E-02 | 0.00E+00                         | 7.66E-03          | 5.94E-03         | 3.82E-04          | 0.00E+00                |
| Colorado | Costilla County   | 08023 | R                    | 3.98E-03                                                                | 4.04E-03 | 4.22E-03 | 4.54E-03 | 4.39E-03 | 4.85E-03 | 5.03E-03 | 5.10E-03 | 0.00E+00                         | 3.07E-03          | 1.18E-03         | 1.42E-04          | 0.00E+00                |
| Colorado | Crowley County    | 08025 | R                    | 3.35E-03                                                                | 3.35E-03 | 3.35E-03 | 3.35E-03 | 3.35E-03 | 3.35E-03 | 3.35E-03 | 3.35E-03 | 0.00E+00                         | 5.75E-04          | 2.50E-03         | 2.72E-04          | 0.00E+00                |
| Colorado | Custer County     | 08027 | R                    | 6.67E-03                                                                | 6.67E-03 | 6.67E-03 | 6.67E-03 | 6.67E-03 | 6.67E-03 | 6.67E-03 | 6.67E-03 | 0.00E+00                         | 4.98E-03          | 1.49E-03         | 2.02E-04          | 0.00E+00                |
| Colorado | Delta County      | 08029 | R                    | 1.01E-02                                                                | 1.11E-02 | 1.41E-02 | 1.53E-02 | 1.40E-02 | 1.55E-02 | 1.78E-02 | 1.85E-02 | 0.00E+00                         | 6.09E-03          | 7.41E-03         | 4.95E-04          | 0.00E+00                |
| Colorado | Denver County     | 08031 | U                    | 0.00E+00                                                                | 0.00E+00 | 8.31E-02 | 1.50E-01 | 1.71E-01 | 1.81E-01 | 2.06E-01 | 2.49E-01 | 1.91E-08                         | 9.23E-04          | 1.49E-01         | 2.02E-02          | 0.00E+00                |
| Colorado | Dolores County    | 08033 | R                    | 4.60E-03                                                                | 4.60E-03 | 4.60E-03 | 4.60E-03 | 4.60E-03 | 4.60E-03 | 4.60E-03 | 4.60E-03 | 0.00E+00                         | 4.05E-03          | 4.76E-04         | 7.31E-05          | 0.00E+00                |
| Colorado | Douglas County    | 08035 | U                    | 1.74E-02                                                                | 2.22E-02 | 2.51E-02 | 4.02E-02 | 5.45E-02 | 5.08E-02 | 8.27E-02 | 8.54E-02 | 2.09E-09                         | 1.50E-03          | 4.02E-02         | 1.28E-02          | 0.00E+00                |
| Colorado | Eagle County      | 08037 | R                    | 8.20E-03                                                                | 1.09E-02 | 1.80E-02 | 2.54E-02 | 2.50E-02 | 4.60E-02 | 6.13E-02 | 6.48E-02 | 0.00E+00                         | 1.71E-02          | 7.10E-03         | 7.61E-04          | 0.00E+00                |
| Colorado | Elbert County     | 08039 | R                    | 1.60E-03                                                                | 1.99E-03 | 3.17E-03 | 5.12E-03 | 7.79E-03 | 7.08E-03 | 8.26E-03 | 8.65E-03 | 5.03E-10                         | 4.33E-04          | 6.33E-03         | 1.03E-03          | 0.00E+00                |
| Colorado | El Paso County    | 08041 | U                    | 2.57E-02                                                                | 4.13E-02 | 5.63E-02 | 6.52E-02 | 6.35E-02 | 7.53E-02 | 8.91E-02 | 1.02E-01 | 1.87E-11                         | 2.87E-03          | 5.01E-02         | 1.06E-02          | 0.00E+00                |
| Colorado | Fremont County    | 08043 | R                    | 7.59E-03                                                                | 8.58E-03 | 2.50E-02 | 4.11E-02 | 3.84E-02 | 5.09E-02 | 5.63E-02 | 6.16E-02 | 0.00E+00                         | 2.13E-02          | 1.61E-02         | 9.85E-04          | 0.00E+00                |
| Colorado | Garfield County   | 08045 | R                    | 1.28E-02                                                                | 1.41E-02 | 1.68E-02 | 1.89E-02 | 3.06E-02 | 2.20E-02 | 5.39E-02 | 6.96E-02 | 0.00E+00                         | 2.11E-02          | 8.17E-03         | 1.30E-03          | 0.00E+00                |
| Colorado | Gilpin County     | 08047 | R                    | 2.41E-02                                                                | 2.41E-02 | 2.41E-02 | 2.41E-02 | 2.41E-02 | 2.41E-02 | 2.41E-02 | 2.41E-02 | 1.20E-09                         | 5.48E-03          | 1.64E-02         | 2.20E-03          | 0.00E+00                |
| Colorado | Grand County      | 08049 | R                    | 7.21E-03                                                                | 8.99E-03 | 1.34E-02 | 2.06E-02 | 1.99E-02 | 3.16E-02 | 3.69E-02 | 3.85E-02 | 1.64E-11                         | 1.61E-02          | 3.58E-03         | 2.49E-04          | 0.00E+00                |
| Colorado | Gunnison County   | 08051 | R                    | 1.12E-02                                                                | 1.35E-02 | 2.04E-02 | 2.47E-02 | 1.03E-01 | 6.63E-02 | 1.40E-01 | 1.65E-01 | 0.00E+00                         | 8.51E-02          | 9.66E-03         | 8.31E-03          | 0.00E+00                |
| Colorado | Hinsdale County   | 08053 | R                    | 6.11E-03                                                                | 6.11E-03 | 6.11E-03 | 6.11E-03 | 6.11E-03 | 6.11E-03 | 6.11E-03 | 6.11E-03 | 0.00E+00                         | 5.66E-03          | 3.03E-04         | 1.44E-04          | 0.00E+00                |
| Colorado | Huerfano County   | 08055 | U                    | 1.95E-03                                                                | 2.27E-03 | 3.24E-03 | 4.85E-03 | 2.62E-03 | 4.96E-03 | 5.04E-03 | 5.06E-03 | 0.00E+00                         | 1.67E-03          | 8.26E-04         | 1.27E-04          | 0.00E+00                |
| Colorado | Jackson County    | 08057 | R                    | 4.13E-03                                                                | 4.13E-03 | 4.13E-03 | 4.13E-03 | 4.13E-03 | 4.13E-03 | 4.13E-03 | 4.13E-03 | 0.00E+00                         | 3.85E-03          | 2.39E-04         | 3.61E-05          | 0.00E+00                |
| Colorado | Jefferson County  | 08059 | U                    | 0.00E+00                                                                | 0.00E+00 | 8.22E-02 | 1.04E-01 | 1.10E-01 | 1.21E-01 | 1.42E-01 | 1.65E-01 | 3.36E-09                         | 1.66E-03          | 9.39E-02         | 1.40E-02          | 0.00E+00                |
| Colorado | Kiowa County      | 08061 | R                    | 3.82E-04                                                                | 3.82E-04 | 3.82E-04 | 3.82E-04 | 3.82E-04 | 3.82E-04 | 3.82E-04 | 3.82E-04 | 0.00E+00                         | 1.71E-05          | 2.95E-04         | 7.02E-05          | 0.00E+00                |
| Colorado | Kit Carson County | 08063 | R                    | 5.95E-04                                                                | 6.00E-04 | 6.13E-04 | 6.36E-04 | 6.53E-04 | 6.57E-04 | 6.69E-04 | 6.73E-04 | 0.00E+00                         | 8.42E-05          | 4.95E-04         | 7.41E-05          | 0.00E+00                |
| Colorado | Lake County       | 08065 | R                    | 1.03E-02                                                                | 1.10E-02 | 1.32E-02 | 1.67E-02 | 3.93E-02 | 3.06E-02 | 3.89E-02 | 4.17E-02 | 0.00E+00                         | 2.41E-02          | 1.42E-02         | 9.96E-04          | 0.00E+00                |
| Colorado | La Plata County   | 08067 | R                    | 1.27E-02                                                                | 1.30E-02 | 1.36E-02 | 3.12E-02 | 4.51E-02 | 8.60E-02 | 9.84E-02 | 1.06E-01 | 3.59E-12                         | 2.73E-02          | 1.70E-02         | 7.71E-04          | 0.00E+00                |
| Colorado | Larimer County    | 08069 | U                    | 1.52E-02                                                                | 2.00E-02 | 3.16E-02 | 4.62E-02 | 4.44E-02 | 6.02E-02 | 6.30E-02 | 6.79E-02 | 7.65E-11                         | 5.29E-03          | 2.98E-02         | 9.22E-03          | 0.00E+00                |
| Colorado | Las Animas County | 08071 | U                    | 1.13E-03                                                                | 1.14E-03 | 1.82E-03 | 6.41E-03 | 2.65E-02 | 1.78E-02 | 5.13E-02 | 6.65E-02 | 0.00E+00                         | 2.27E-02          | 3.15E-03         | 6.61E-04          | 0.00E+00                |
| Colorado | Lincoln County    | 08073 | R                    | 4.10E-04                                                                | 4.24E-04 | 4.69E-04 | 5.14E-04 | 6.67E-04 | 6.10E-04 | 7.48E-04 | 7.94E-04 | 0.00E+00                         | 2.20E-05          | 6.11E-04         | 3.46E-05          | 0.00E+00                |
| Colorado | Logan County      | 08075 | U                    | 1.52E-03                                                                | 1.54E-03 | 1.84E-03 | 2.80E-03 | 1.05E-02 | 1.26E-02 | 1.50E-02 | 1.52E-02 | 0.00E+00                         | 1.60E-04          | 7.75E-03         | 2.57E-03          | 0.00E+00                |
| Colorado | Mesa County       | 08077 | R                    | 1.13E-02                                                                | 1.46E-02 | 3.06E-02 | 4.52E-02 | 4.14E-02 | 5.03E-02 | 6.89E-02 | 7.55E-02 | 0.00E+00                         | 1.31E-02          | 2.66E-02         | 1.68E-03          | 0.00E+00                |
| Colorado | Mineral County    | 08079 | R                    | 6.96E-03                                                                | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 0.00E+00                         | 6.05E-03          | 3.77E-04         | 5.24E-04          | 0.00E+00                |
| Colorado | Moffat County     | 08081 | U                    | 3.42E-03                                                                | 5.09E-03 | 1.01E-02 | 1.44E-02 | 1.46E-02 | 1.60E-02 | 1.60E-02 | 1.60E-02 | 0.00E+00                         | 8.89E-03          | 4.22E-03         | 1.50E-03          | 0.00E+00                |
| Colorado | Montezuma County  | 08083 | R                    | 7.12E-03                                                                | 7.61E-03 | 9.32E-03 | 1.34E-02 | 3.44E-02 | 4.86E-02 | 5.99E-02 | 6.01E-02 | 2.58E-13                         | 2.06E-02          | 1.09E-02         | 2.97E-03          | 0.00E+00                |
| Colorado | Montrose County   | 08085 | R                    | 7.39E-03                                                                | 7.86E-03 | 1.24E-02 | 2.37E-02 | 3.71E-02 | 5.91E-02 | 7.17E-02 | 7.22E-02 | 0.00E+00                         | 1.70E-02          | 1.92E-02         | 9.62E-04          | 0.00E+00                |
| Colorado | Morgan County     | 08087 | U                    | 2.53E-03                                                                | 3.07E-03 | 4.72E-03 | 8.03E-03 | 1.31E-02 | 1.38E-02 | 2.83E-02 | 2.91E-02 | 2.80E-11                         | 1.31E-04          | 1.01E-02         | 2.85E-03          | 0.00E+00                |
| Colorado | Otero County      | 08089 | U                    | 3.97E-03                                                                | 4.12E-03 | 6.36E-03 | 9.02E-03 | 1.59E-02 | 1.17E-02 | 2.07E-02 | 2.74E-02 | 0.00E+00                         | 2.25E-03          | 1.16E-02         | 2.08E-03          | 0.00E+00                |
| Colorado | Ouray County      | 08091 | R                    | 6.63E-03                                                                | 6.63E-03 | 6.63E-03 | 6.63E-03 | 6.63E-03 | 6.63E-03 | 6.63E-03 | 6.63E-03 | 0.00E+00                         | 4.36E-03          | 1.58E-03         | 6.92E-04          | 0.00E+00                |
| Colorado | Park County       | 08093 | R                    | 5.40E-03                                                                | 5.46E-03 | 5.64E-03 | 5.94E-03 | 1.56E-02 | 1.28E-02 | 1.69E-02 | 1.83E-02 | 2.34E-10                         | 5.65E-03          | 8.27E-03         | 1.68E-03          | 0.00E+00                |
| Colorado | Phillips County   | 08095 | R                    | 1.34E-03                                                                | 1.35E-03 | 1.38E-03 | 1.43E-03 | 1.40E-03 | 1.49E-03 | 1.52E-03 | 1.53E-03 | 0.00E+00                         | 1.19E-04          | 1.18E-03         | 1.09E-04          | 0.00E+00                |
| Colorado | Pitkin County     | 08097 | R                    | 1.09E-02                                                                | 1.24E-02 | 1.71E-02 | 1.80E-02 | 2.55E-02 | 2.16E-02 | 7.39E-02 | 9.13E-02 | 0.00E+00                         | 1.27E-02          | 1.03E-02         | 2.46E-03          | 0.00E+00                |
| Colorado | Prowers County    | 08099 | U                    | 1.21E-03                                                                | 1.40E-03 | 1.97E-03 | 2.59E-03 | 7.60E-03 | 8.35E-03 | 1.03E-02 | 1.04E-02 | 0.00E+00                         | 6.09E-04          | 5.45E-03         | 1.54E-03          | 0.00E+00                |
| Colorado | Pueblo County     | 08101 | U                    | 9.96E-03                                                                | 1.56E-02 | 2.51E-02 | 4.41E-02 | 4.50E-02 | 5.55E-02 | 6.67E-02 | 7.94E-02 | 0.00E+00                         | 5.19E-04          | 3.61E-02         | 8.42E-03          | 0.00E+00                |
| Colorado | Rio Blanco County | 08103 | R                    | 3.24E-03                                                                | 3.31E-03 | 3.51E-03 | 3.86E-03 | 3.80E-03 | 4.21E-03 | 4.41E-03 | 4.48E-03 | 0.00E+00                         | 3.09E-03          | 6.76E-04         | 3.19E-05          | 0.00E+00                |
| Colorado | Rio Grande County | 08105 | R                    | 1.36E-03                                                                | 2.73E-03 | 6.82E-03 | 7.72E-03 | 1.12E-02 | 2.00E-02 | 2.02E-02 | 2.03E-02 | 0.00E+00                         | 5.71E-03          | 5.22E-03         | 2.93E-04          | 0.00E+00                |
| Colorado | Routt County      | 08107 | R                    | 6.17E-03                                                                | 6.59E-03 | 8.05E-03 | 1.18E-02 | 2.84E-02 | 2.87E-02 | 3.88E-02 | 4.14E-02 | 0.00E+00                         | 2.37E-02          | 4.10E-03         | 5.64E-04          | 0.00E+00                |
| Colorado | Saguache County   | 08109 | R                    | 5.45E-03                                                                | 5.83E-03 | 6.94E-03 | 8.80E-03 | 9.57E-03 | 1.07E-02 | 1.18E-02 | 1.21E-02 | 0.00E+00                         | 7.61E-03          | 1.76E-03         | 2.09E-04          | 0.00E+00                |
| Colorado | San Juan County   | 08111 | R                    | 5.65E-03                                                                | 5.65E-03 | 5.65E-03 | 5.65E-03 | 5.65E-03 | 5.65E-03 | 5.65E-03 | 5.65E-03 | 0.00E+00                         | 5.13E-03          | 4.77E-04         | 3.80E-05          | 0.00E+00                |
| Colorado | San Miguel County | 08113 | R                    | 6.38E-03                                                                | 6.49E-03 | 6.82E-03 | 7.38E-03 | 7.01E-03 | 7.93E-03 | 8.26E-03 | 8.37E-03 | 0.00E+00                         | 5.47E-03          | 1.32E-03         | 2.23E-04          | 0.00E+00                |
| Colorado | Sedgwick County   | 08115 | R                    | 1.72E-03                                                                | 1.83E-03 | 2.14E-03 | 2.67E-03 | 3.32E-03 | 3.19E-03 | 3.51E-03 | 3.62E-03 | 0.00E+00                         | 4.83E-04          | 2.60E-03         | 2.40E-04          | 0.00E+00                |
| Colorado | Summit County     | 08117 | R                    | 2.07E-02                                                                | 2.24E-02 | 2.75E-02 | 2.75E-02 | 3.18E-02 | 3.89E-02 | 4.41E-02 | 4.58E-02 | 3.11E-11                         | 1.49E-02          | 1.59E-02         | 1.01E-03          | 0.00E+00                |
| Colorado | Teller County     | 08119 | R                    | 1.42E-02                                                                | 1.46E-02 | 1.56E-02 | 1.74E-02 | 2.98E-02 | 2.94E-02 | 3.66E-02 | 3.90E-02 | 1.25E-11                         | 1.18E-02          | 1.28E-02         | 5.14E-03          | 0.00E+00                |
| Colorado | Washington County | 08121 | R                    | 5.05E-04                                                                | 5.15E-04 | 5.45E-04 | 6.31E-04 | 9.25E-04 | 1.00E-03 | 1.55E-03 | 1.73E-03 | 0.00E+00                         | 7.79E-05          | 7.53E-04         | 9.41E-05          | 0.00E+00                |
| Colorado | Weld County       | 08123 | U                    | 4.41E-03                                                                | 6.62E-03 | 9.02E-03 | 2.01E-02 | 3.36E-02 | 5.24E-02 | 6.36E-02 | 7.61E-02 | 2.59E-10                         | 3.57E-03          | 2.56E-02         | 4.44E-03          | 0.00E+00                |

| State               | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                     |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                     |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Colorado            | Yuma County          | 08125 | R                    | 7.02E-04                                                                | 7.29E-04 | 8.12E-04 | 9.49E-04 | 8.41E-04 | 9.74E-04 | 9.89E-04 | 9.94E-04 | 0.00E+00                         | 1.47E-04          | 6.20E-04         | 7.42E-05          | 0.00E+00                |
| Connecticut         | Statewide            | 09000 | -                    | 1.63E-02                                                                | 2.02E-02 | 3.27E-02 | 4.41E-02 | 4.69E-02 | 5.97E-02 | 7.78E-02 | 8.93E-02 | 1.21E-06                         | 1.96E-03          | 3.78E-02         | 7.09E-03          | 0.00E+00                |
| Connecticut         | State Urban Counties | 09000 | U                    | 1.63E-02                                                                | 2.02E-02 | 3.27E-02 | 4.41E-02 | 4.69E-02 | 5.97E-02 | 7.78E-02 | 8.93E-02 | 1.21E-06                         | 1.96E-03          | 3.78E-02         | 7.09E-03          | 0.00E+00                |
| Connecticut         | Fairfield County     | 09001 | U                    | 3.53E-02                                                                | 3.78E-02 | 4.32E-02 | 5.16E-02 | 5.62E-02 | 6.72E-02 | 8.26E-02 | 9.19E-02 | 1.71E-08                         | 1.32E-03          | 4.61E-02         | 8.80E-03          | 0.00E+00                |
| Connecticut         | Hartford County      | 09003 | U                    | 3.54E-02                                                                | 3.95E-02 | 4.42E-02 | 5.27E-02 | 5.93E-02 | 7.26E-02 | 9.12E-02 | 1.08E-01 | 9.00E-09                         | 1.44E-03          | 4.71E-02         | 1.07E-02          | 0.00E+00                |
| Connecticut         | Litchfield County    | 09005 | U                    | 9.68E-03                                                                | 1.02E-02 | 1.34E-02 | 1.81E-02 | 2.07E-02 | 2.52E-02 | 3.08E-02 | 3.70E-02 | 1.84E-09                         | 4.29E-03          | 1.32E-02         | 3.25E-03          | 0.00E+00                |
| Connecticut         | Middlesex County     | 09007 | U                    | 1.98E-02                                                                | 2.06E-02 | 2.31E-02 | 3.09E-02 | 3.24E-02 | 4.25E-02 | 5.10E-02 | 6.55E-02 | 1.68E-07                         | 3.26E-03          | 2.53E-02         | 3.77E-03          | 0.00E+00                |
| Connecticut         | New Haven County     | 09009 | U                    | 2.86E-02                                                                | 3.04E-02 | 3.50E-02 | 4.15E-02 | 4.51E-02 | 5.36E-02 | 6.64E-02 | 7.74E-02 | 6.70E-09                         | 1.66E-03          | 3.85E-02         | 4.95E-03          | 0.00E+00                |
| Connecticut         | New London County    | 09011 | U                    | 1.64E-02                                                                | 1.69E-02 | 1.90E-02 | 2.50E-02 | 2.84E-02 | 3.24E-02 | 5.78E-02 | 7.05E-02 | 1.51E-05                         | 2.77E-03          | 2.11E-02         | 4.47E-03          | 0.00E+00                |
| Connecticut         | Tolland County       | 09013 | U                    | 1.66E-02                                                                | 1.72E-02 | 2.03E-02 | 2.42E-02 | 2.79E-02 | 3.05E-02 | 3.53E-02 | 4.06E-02 | 6.17E-08                         | 3.64E-03          | 2.04E-02         | 3.92E-03          | 0.00E+00                |
| Connecticut         | Windham County       | 09015 | U                    | 8.39E-03                                                                | 9.51E-03 | 1.07E-02 | 1.30E-02 | 1.68E-02 | 2.00E-02 | 2.94E-02 | 3.17E-02 | 5.64E-07                         | 3.90E-03          | 1.12E-02         | 1.67E-03          | 0.00E+00                |
| Delaware            | Statewide            | 10000 | -                    | 8.61E-03                                                                | 1.14E-02 | 2.88E-02 | 6.98E-02 | 6.75E-02 | 9.95E-02 | 1.36E-01 | 1.67E-01 | 1.62E-03                         | 9.02E-04          | 5.56E-02         | 9.31E-03          | 0.00E+00                |
| Delaware            | State Urban Counties | 10000 | U                    | 4.69E-02                                                                | 5.20E-02 | 6.80E-02 | 8.35E-02 | 9.00E-02 | 1.12E-01 | 1.42E-01 | 1.75E-01 | 4.79E-05                         | 5.56E-04          | 7.61E-02         | 1.33E-02          | 0.00E+00                |
| Delaware            | State Rural Counties | 10000 | R                    | 0.00E+00                                                                | 6.64E-03 | 1.09E-02 | 1.55E-02 | 2.30E-02 | 2.67E-02 | 5.79E-02 | 6.82E-02 | 4.71E-03                         | 1.58E-03          | 1.53E-02         | 1.40E-03          | 0.00E+00                |
| Delaware            | Kent County          | 10001 | R                    | 1.24E-02                                                                | 1.42E-02 | 1.51E-02 | 2.62E-02 | 3.38E-02 | 4.38E-02 | 6.47E-02 | 7.65E-02 | 9.47E-03                         | 2.78E-03          | 1.99E-02         | 1.60E-03          | 0.00E+00                |
| Delaware            | New Castle County    | 10003 | U                    | 4.69E-02                                                                | 5.20E-02 | 6.80E-02 | 8.35E-02 | 9.00E-02 | 1.12E-01 | 1.42E-01 | 1.75E-01 | 4.79E-05                         | 5.56E-04          | 7.61E-02         | 1.33E-02          | 0.00E+00                |
| Delaware            | Sussex County        | 10005 | R                    | 0.00E+00                                                                | 0.00E+00 | 7.71E-03 | 1.05E-02 | 1.24E-02 | 1.43E-02 | 1.63E-02 | 1.77E-02 | 5.34E-05                         | 4.13E-04          | 1.08E-02         | 1.20E-03          | 0.00E+00                |
| District Of Colum   | Statewide            | 11000 | -                    | 5.63E-02                                                                | 6.58E-02 | 7.59E-02 | 8.95E-02 | 9.76E-02 | 1.12E-01 | 1.29E-01 | 1.42E-01 | 7.95E-14                         | 5.34E-04          | 7.79E-02         | 1.92E-02          | 0.00E+00                |
| District Of Columbi | State Urban Counties | 11000 | U                    | 5.63E-02                                                                | 6.58E-02 | 7.59E-02 | 8.95E-02 | 9.76E-02 | 1.12E-01 | 1.29E-01 | 1.42E-01 | 7.95E-14                         | 5.34E-04          | 7.79E-02         | 1.92E-02          | 0.00E+00                |
| District Of Columbi | District of Columbia | 11001 | U                    | 5.63E-02                                                                | 6.58E-02 | 7.59E-02 | 8.95E-02 | 9.76E-02 | 1.12E-01 | 1.29E-01 | 1.42E-01 | 7.95E-14                         | 5.34E-04          | 7.79E-02         | 1.92E-02          | 0.00E+00                |
| Florida             | Statewide            | 12000 | -                    | 1.26E-02                                                                | 1.84E-02 | 3.18E-02 | 5.05E-02 | 5.62E-02 | 7.01E-02 | 9.04E-02 | 1.05E-01 | 4.80E-09                         | 6.93E-03          | 3.30E-02         | 1.62E-02          | 0.00E+00                |
| Florida             | State Urban Counties | 12000 | U                    | 1.68E-02                                                                | 2.32E-02 | 3.84E-02 | 5.43E-02 | 5.95E-02 | 7.26E-02 | 9.26E-02 | 1.07E-01 | 5.44E-09                         | 5.49E-03          | 3.60E-02         | 1.80E-02          | 0.00E+00                |
| Florida             | State Rural Counties | 12000 | R                    | 7.23E-03                                                                | 9.08E-03 | 1.42E-02 | 2.42E-02 | 3.13E-02 | 3.46E-02 | 5.46E-02 | 7.33E-02 | 1.53E-11                         | 1.78E-02          | 1.05E-02         | 3.00E-03          | 0.00E+00                |
| Florida             | Alachua County       | 12001 | U                    | 1.65E-02                                                                | 1.82E-02 | 3.24E-02 | 4.00E-02 | 3.76E-02 | 4.68E-02 | 5.85E-02 | 6.83E-02 | 0.00E+00                         | 8.03E-03          | 2.03E-02         | 9.24E-03          | 0.00E+00                |
| Florida             | Baker County         | 12003 | R                    | 2.04E-02                                                                | 2.15E-02 | 2.45E-02 | 2.96E-02 | 3.07E-02 | 3.47E-02 | 3.78E-02 | 3.88E-02 | 0.00E+00                         | 2.31E-02          | 6.26E-03         | 1.28E-03          | 0.00E+00                |
| Florida             | Bay County           | 12005 | U                    | 8.19E-03                                                                | 1.15E-02 | 1.65E-02 | 3.83E-02 | 3.49E-02 | 4.47E-02 | 4.62E-02 | 5.57E-02 | 0.00E+00                         | 8.41E-03          | 1.92E-02         | 7.30E-03          | 0.00E+00                |
| Florida             | Bradford County      | 12007 | R                    | 1.36E-02                                                                | 1.39E-02 | 1.51E-02 | 2.03E-02 | 2.30E-02 | 2.83E-02 | 3.46E-02 | 3.67E-02 | 0.00E+00                         | 1.23E-02          | 9.09E-03         | 1.67E-03          | 0.00E+00                |
| Florida             | Brevard County       | 12009 | U                    | 1.57E-02                                                                | 2.09E-02 | 3.23E-02 | 4.81E-02 | 5.23E-02 | 6.21E-02 | 7.44E-02 | 8.24E-02 | 0.00E+00                         | 1.44E-02          | 2.64E-02         | 1.15E-02          | 0.00E+00                |
| Florida             | Broward County       | 12011 | U                    | 4.37E-02                                                                | 4.95E-02 | 6.02E-02 | 7.22E-02 | 7.33E-02 | 8.54E-02 | 1.00E-01 | 1.14E-01 | 0.00E+00                         | 2.60E-03          | 5.00E-02         | 2.07E-02          | 0.00E+00                |
| Florida             | Calhoun County       | 12013 | R                    | 1.33E-02                                                                | 1.35E-02 | 1.41E-02 | 1.51E-02 | 3.05E-02 | 2.78E-02 | 3.54E-02 | 3.80E-02 | 0.00E+00                         | 2.69E-02          | 3.06E-03         | 4.82E-04          | 0.00E+00                |
| Florida             | Charlotte County     | 12015 | R                    | 1.41E-02                                                                | 2.07E-02 | 2.70E-02 | 3.11E-02 | 4.41E-02 | 4.49E-02 | 6.65E-02 | 6.82E-02 | 0.00E+00                         | 2.32E-02          | 1.69E-02         | 3.89E-03          | 0.00E+00                |
| Florida             | Citrus County        | 12017 | R                    | 1.11E-02                                                                | 1.18E-02 | 1.69E-02 | 2.50E-02 | 2.83E-02 | 2.88E-02 | 3.79E-02 | 4.64E-02 | 0.00E+00                         | 1.27E-02          | 1.15E-02         | 4.17E-03          | 0.00E+00                |
| Florida             | Clay County          | 12019 | U                    | 1.17E-02                                                                | 1.66E-02 | 2.15E-02 | 2.60E-02 | 3.99E-02 | 4.47E-02 | 5.95E-02 | 6.62E-02 | 0.00E+00                         | 7.08E-03          | 2.29E-02         | 9.89E-03          | 0.00E+00                |
| Florida             | Collier County       | 12021 | R                    | 1.37E-02                                                                | 1.58E-02 | 2.42E-02 | 3.23E-02 | 3.86E-02 | 4.23E-02 | 5.51E-02 | 5.74E-02 | 0.00E+00                         | 2.02E-02          | 1.28E-02         | 5.61E-03          | 0.00E+00                |
| Florida             | Columbia County      | 12023 | R                    | 1.58E-02                                                                | 1.70E-02 | 1.85E-02 | 2.91E-02 | 3.93E-02 | 6.01E-02 | 8.06E-02 | 9.54E-02 | 0.00E+00                         | 3.04E-02          | 7.82E-03         | 1.03E-03          | 0.00E+00                |
| Florida             | Dade County          | 12025 | U                    | 3.83E-02                                                                | 4.76E-02 | 6.10E-02 | 7.81E-02 | 8.19E-02 | 9.70E-02 | 1.19E-01 | 1.34E-01 | 0.00E+00                         | 1.40E-03          | 5.40E-02         | 2.66E-02          | 0.00E+00                |
| Florida             | DeSoto County        | 12027 | R                    | 3.86E-02                                                                | 3.90E-02 | 4.03E-02 | 8.12E-02 | 9.78E-02 | 1.53E-01 | 2.11E-01 | 2.30E-01 | 0.00E+00                         | 8.93E-02          | 7.28E-03         | 1.29E-03          | 0.00E+00                |
| Florida             | Dixie County         | 12029 | R                    | 2.22E-02                                                                | 2.23E-02 | 2.25E-02 | 2.29E-02 | 2.27E-02 | 4.56E-02 | 5.92E-02 | 6.37E-02 | 0.00E+00                         | 2.08E-02          | 1.01E-03         | 8.66E-04          | 0.00E+00                |
| Florida             | Duval County         | 12031 | U                    | 2.42E-02                                                                | 3.42E-02 | 4.55E-02 | 6.00E-02 | 6.14E-02 | 7.37E-02 | 8.21E-02 | 8.80E-02 | 0.00E+00                         | 2.62E-03          | 4.42E-02         | 1.46E-02          | 0.00E+00                |
| Florida             | Escambia County      | 12033 | U                    | 1.34E-02                                                                | 2.27E-02 | 3.71E-02 | 5.04E-02 | 5.47E-02 | 6.84E-02 | 7.44E-02 | 7.87E-02 | 1.89E-07                         | 3.96E-03          | 3.90E-02         | 1.17E-02          | 0.00E+00                |
| Florida             | Flagler County       | 12035 | U                    | 9.79E-03                                                                | 1.04E-02 | 1.21E-02 | 1.49E-02 | 1.38E-02 | 1.76E-02 | 1.92E-02 | 1.98E-02 | 0.00E+00                         | 7.63E-03          | 3.09E-03         | 3.09E-03          | 0.00E+00                |
| Florida             | Franklin County      | 12037 | R                    | 9.30E-03                                                                | 9.73E-03 | 1.10E-02 | 1.32E-02 | 1.21E-02 | 1.33E-02 | 1.34E-02 | 1.34E-02 | 0.00E+00                         | 8.69E-03          | 1.07E-03         | 2.32E-03          | 0.00E+00                |
| Florida             | Gadsden County       | 12039 | U                    | 1.42E-02                                                                | 1.55E-02 | 1.68E-02 | 1.84E-02 | 2.31E-02 | 2.82E-02 | 3.33E-02 | 4.34E-02 | 0.00E+00                         | 1.33E-02          | 7.91E-03         | 1.97E-03          | 0.00E+00                |
| Florida             | Gilchrist County     | 12041 | R                    | 1.43E-02                                                                | 1.43E-02 | 1.44E-02 | 1.46E-02 | 1.44E-02 | 1.48E-02 | 1.49E-02 | 1.49E-02 | 0.00E+00                         | 1.12E-02          | 2.53E-03         | 7.45E-04          | 0.00E+00                |
| Florida             | Glades County        | 12043 | R                    | 5.27E-03                                                                | 5.85E-03 | 7.59E-03 | 1.05E-02 | 1.21E-02 | 1.34E-02 | 1.51E-02 | 1.57E-02 | 0.00E+00                         | 1.00E-02          | 1.02E-03         | 1.01E-03          | 0.00E+00                |
| Florida             | Gulf County          | 12045 | R                    | 6.04E-03                                                                | 6.40E-03 | 7.50E-03 | 9.33E-03 | 1.16E-02 | 1.53E-02 | 1.89E-02 | 2.01E-02 | 0.00E+00                         | 8.86E-03          | 1.52E-03         | 1.21E-03          | 0.00E+00                |
| Florida             | Hamilton County      | 12047 | R                    | 1.09E-02                                                                | 1.11E-02 | 1.19E-02 | 1.32E-02 | 1.40E-02 | 2.01E-02 | 2.42E-02 | 2.56E-02 | 0.00E+00                         | 1.12E-02          | 2.42E-03         | 3.00E-04          | 0.00E+00                |
| Florida             | Hardee County        | 12049 | R                    | 2.44E-02                                                                | 2.56E-02 | 2.93E-02 | 5.47E-02 | 5.22E-02 | 8.05E-02 | 8.47E-02 | 8.61E-02 | 0.00E+00                         | 4.42E-02          | 6.18E-03         | 1.74E-03          | 0.00E+00                |
| Florida             | Hendry County        | 12051 | R                    | 7.37E-03                                                                | 7.88E-03 | 9.42E-03 | 1.13E-02 | 1.22E-02 | 1.42E-02 | 1.75E-02 | 1.87E-02 | 0.00E+00                         | 8.24E-03          | 2.55E-03         | 1.40E-03          | 0.00E+00                |
| Florida             | Hernando County      | 12053 | U                    | 1.63E-02                                                                | 1.66E-02 | 2.23E-02 | 3.62E-02 | 4.47E-02 | 6.19E-02 | 6.68E-02 | 7.61E-02 | 0.00E+00                         | 1.75E-02          | 1.97E-02         | 7.48E-03          | 0.00E+00                |
| Florida             | Highlands County     | 12055 | R                    | 1.36E-02                                                                | 1.76E-02 | 1.94E-02 | 3.65E-02 | 4.51E-02 | 6.13E-02 | 7.98E-02 | 9.81E-02 | 0.00E+00                         | 3.27E-02          | 1.01E-02         | 2.32E-03          | 0.00E+00                |
| Florida             | Hillsborough County  | 12057 | U                    | 2.36E-02                                                                | 2.97E-02 | 4.07E-02 | 5.71E-02 | 5.58E-02 | 7.22E-02 | 8.59E-02 | 9.27E-02 | 0.00E+00                         | 1.94E-03          | 3.53E-02         | 1.86E-02          | 0.00E+00                |

| State   | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Florida | Holmes County        | 12059 | R                    | 7.68E-03                                                                | 7.72E-03 | 7.85E-03 | 8.42E-03 | 8.46E-03 | 9.05E-03 | 9.29E-03 | 9.37E-03 | 0.00E+00                         | 5.06E-03          | 2.96E-03         | 4.43E-04          | 0.00E+00                |
| Florida | Indian River County  | 12061 | R                    | 1.15E-02                                                                | 1.28E-02 | 2.18E-02 | 2.67E-02 | 2.75E-02 | 3.09E-02 | 3.90E-02 | 4.13E-02 | 0.00E+00                         | 7.28E-03          | 1.51E-02         | 5.12E-03          | 0.00E+00                |
| Florida | Jackson County       | 12063 | R                    | 7.51E-03                                                                | 7.60E-03 | 8.26E-03 | 8.59E-03 | 1.35E-02 | 1.44E-02 | 2.49E-02 | 2.77E-02 | 0.00E+00                         | 8.57E-03          | 4.20E-03         | 7.42E-04          | 0.00E+00                |
| Florida | Jefferson County     | 12065 | R                    | 2.33E-02                                                                | 2.33E-02 | 2.35E-02 | 2.38E-02 | 2.40E-02 | 2.41E-02 | 2.43E-02 | 2.44E-02 | 0.00E+00                         | 1.89E-02          | 3.76E-03         | 1.34E-03          | 0.00E+00                |
| Florida | Lafayette County     | 12067 | R                    | 1.07E-02                                                                | 1.10E-02 | 1.19E-02 | 1.34E-02 | 1.21E-02 | 1.50E-02 | 1.59E-02 | 1.62E-02 | 0.00E+00                         | 1.07E-02          | 1.23E-03         | 1.99E-04          | 0.00E+00                |
| Florida | Lake County          | 12069 | U                    | 1.06E-02                                                                | 1.19E-02 | 1.50E-02 | 2.06E-02 | 2.20E-02 | 2.54E-02 | 2.96E-02 | 4.02E-02 | 0.00E+00                         | 4.03E-03          | 1.03E-02         | 7.68E-03          | 0.00E+00                |
| Florida | Lee County           | 12071 | U                    | 1.00E-02                                                                | 1.27E-02 | 2.30E-02 | 3.56E-02 | 4.07E-02 | 5.11E-02 | 5.95E-02 | 6.33E-02 | 0.00E+00                         | 4.75E-03          | 2.10E-02         | 1.50E-02          | 0.00E+00                |
| Florida | Leon County          | 12073 | U                    | 3.77E-02                                                                | 4.71E-02 | 5.78E-02 | 7.87E-02 | 9.25E-02 | 1.15E-01 | 1.63E-01 | 1.97E-01 | 0.00E+00                         | 4.85E-02          | 3.21E-02         | 1.18E-02          | 0.00E+00                |
| Florida | Levy County          | 12075 | R                    | 7.81E-03                                                                | 1.11E-02 | 1.64E-02 | 1.90E-02 | 2.32E-02 | 3.08E-02 | 3.35E-02 | 3.40E-02 | 0.00E+00                         | 1.76E-02          | 3.71E-03         | 1.82E-03          | 0.00E+00                |
| Florida | Liberty County       | 12077 | R                    | 3.20E-02                                                                | 3.20E-02 | 3.21E-02 | 3.22E-02 | 3.21E-02 | 3.23E-02 | 3.24E-02 | 3.24E-02 | 0.00E+00                         | 2.75E-02          | 3.51E-03         | 1.02E-03          | 0.00E+00                |
| Florida | Madison County       | 12079 | R                    | 1.28E-02                                                                | 1.30E-02 | 1.35E-02 | 1.42E-02 | 1.96E-02 | 1.74E-02 | 2.26E-02 | 2.43E-02 | 0.00E+00                         | 1.55E-02          | 3.56E-03         | 4.95E-04          | 0.00E+00                |
| Florida | Manatee County       | 12081 | U                    | 1.19E-02                                                                | 2.18E-02 | 3.22E-02 | 4.15E-02 | 4.24E-02 | 4.99E-02 | 6.23E-02 | 6.40E-02 | 0.00E+00                         | 8.74E-03          | 2.01E-02         | 1.36E-02          | 0.00E+00                |
| Florida | Marion County        | 12083 | R                    | 1.65E-02                                                                | 1.70E-02 | 1.99E-02 | 2.41E-02 | 2.68E-02 | 3.28E-02 | 3.56E-02 | 5.14E-02 | 0.00E+00                         | 8.56E-03          | 1.59E-02         | 2.37E-03          | 0.00E+00                |
| Florida | Martin County        | 12085 | U                    | 1.08E-02                                                                | 1.29E-02 | 2.33E-02 | 3.15E-02 | 3.36E-02 | 4.50E-02 | 5.63E-02 | 6.21E-02 | 0.00E+00                         | 2.93E-03          | 1.57E-02         | 1.51E-02          | 0.00E+00                |
| Florida | Monroe County        | 12087 | R                    | 3.41E-03                                                                | 3.73E-03 | 6.05E-03 | 9.58E-03 | 1.41E-02 | 1.79E-02 | 2.59E-02 | 3.59E-02 | 0.00E+00                         | 9.42E-04          | 7.03E-03         | 6.13E-03          | 0.00E+00                |
| Florida | Nassau County        | 12089 | U                    | 9.86E-03                                                                | 1.01E-02 | 1.08E-02 | 1.31E-02 | 1.31E-02 | 1.54E-02 | 1.74E-02 | 1.81E-02 | 0.00E+00                         | 5.14E-03          | 5.95E-03         | 2.01E-03          | 0.00E+00                |
| Florida | Okaloosa County      | 12091 | R                    | 2.15E-02                                                                | 2.46E-02 | 3.31E-02 | 3.82E-02 | 5.04E-02 | 6.25E-02 | 9.33E-02 | 1.13E-01 | 0.00E+00                         | 3.13E-02          | 1.56E-02         | 3.51E-03          | 0.00E+00                |
| Florida | Okeechobee County    | 12093 | R                    | 1.10E-02                                                                | 1.23E-02 | 1.54E-02 | 1.83E-02 | 1.80E-02 | 2.06E-02 | 2.64E-02 | 2.92E-02 | 0.00E+00                         | 7.01E-03          | 7.15E-03         | 3.81E-03          | 0.00E+00                |
| Florida | Orange County        | 12095 | U                    | 3.86E-02                                                                | 5.34E-02 | 6.15E-02 | 7.58E-02 | 7.23E-02 | 8.80E-02 | 1.04E-01 | 1.13E-01 | 0.00E+00                         | 5.43E-03          | 3.90E-02         | 2.79E-02          | 0.00E+00                |
| Florida | Osceola County       | 12097 | U                    | 2.44E-02                                                                | 3.10E-02 | 4.44E-02 | 6.31E-02 | 7.05E-02 | 9.61E-02 | 1.29E-01 | 1.91E-01 | 0.00E+00                         | 4.41E-02          | 1.23E-02         | 1.41E-02          | 0.00E+00                |
| Florida | Palm Beach County    | 12099 | U                    | 2.16E-02                                                                | 2.54E-02 | 3.74E-02 | 4.67E-02 | 5.37E-02 | 6.00E-02 | 8.21E-02 | 9.51E-02 | 0.00E+00                         | 4.40E-03          | 2.61E-02         | 2.33E-02          | 0.00E+00                |
| Florida | Pasco County         | 12101 | U                    | 1.74E-02                                                                | 1.87E-02 | 2.26E-02 | 3.98E-02 | 4.45E-02 | 5.94E-02 | 7.51E-02 | 8.44E-02 | 0.00E+00                         | 6.03E-03          | 2.74E-02         | 1.10E-02          | 0.00E+00                |
| Florida | Pinellas County      | 12103 | U                    | 2.93E-02                                                                | 3.28E-02 | 4.52E-02 | 5.35E-02 | 5.31E-02 | 6.08E-02 | 7.34E-02 | 7.83E-02 | 0.00E+00                         | 4.72E-04          | 3.65E-02         | 1.62E-02          | 0.00E+00                |
| Florida | Polk County          | 12105 | U                    | 1.62E-02                                                                | 1.77E-02 | 2.74E-02 | 3.77E-02 | 3.71E-02 | 5.14E-02 | 6.29E-02 | 6.75E-02 | 0.00E+00                         | 6.92E-03          | 2.22E-02         | 7.99E-03          | 0.00E+00                |
| Florida | Putnam County        | 12107 | R                    | 1.15E-02                                                                | 1.23E-02 | 1.33E-02 | 2.10E-02 | 2.11E-02 | 2.62E-02 | 2.87E-02 | 3.44E-02 | 0.00E+00                         | 7.98E-03          | 1.14E-02         | 1.81E-03          | 0.00E+00                |
| Florida | St. Johns County     | 12109 | U                    | 1.45E-02                                                                | 1.68E-02 | 2.13E-02 | 2.47E-02 | 2.78E-02 | 4.32E-02 | 5.03E-02 | 5.16E-02 | 0.00E+00                         | 6.98E-03          | 1.11E-02         | 9.67E-03          | 0.00E+00                |
| Florida | St. Lucie County     | 12111 | U                    | 1.35E-02                                                                | 1.65E-02 | 2.67E-02 | 4.04E-02 | 4.77E-02 | 5.50E-02 | 7.21E-02 | 7.42E-02 | 0.00E+00                         | 9.79E-03          | 2.83E-02         | 9.57E-03          | 0.00E+00                |
| Florida | Santa Rosa County    | 12113 | U                    | 9.89E-03                                                                | 1.66E-02 | 1.98E-02 | 2.24E-02 | 3.22E-02 | 2.95E-02 | 3.60E-02 | 6.79E-02 | 1.51E-07                         | 1.60E-02          | 1.13E-02         | 4.91E-03          | 0.00E+00                |
| Florida | Sarasota County      | 12115 | U                    | 1.28E-02                                                                | 1.72E-02 | 2.71E-02 | 3.97E-02 | 4.18E-02 | 4.60E-02 | 6.04E-02 | 9.39E-02 | 0.00E+00                         | 7.36E-03          | 1.98E-02         | 1.47E-02          | 0.00E+00                |
| Florida | Seminole County      | 12117 | U                    | 3.37E-02                                                                | 4.34E-02 | 5.23E-02 | 6.64E-02 | 6.60E-02 | 7.20E-02 | 8.91E-02 | 1.16E-01 | 0.00E+00                         | 2.88E-03          | 4.18E-02         | 2.13E-02          | 0.00E+00                |
| Florida | Sumter County        | 12119 | R                    | 8.32E-03                                                                | 9.03E-03 | 1.19E-02 | 1.97E-02 | 2.16E-02 | 2.19E-02 | 3.05E-02 | 3.65E-02 | 0.00E+00                         | 1.37E-02          | 6.04E-03         | 1.85E-03          | 0.00E+00                |
| Florida | Suwannee County      | 12121 | R                    | 1.36E-02                                                                | 1.40E-02 | 1.49E-02 | 1.75E-02 | 2.96E-02 | 3.81E-02 | 5.12E-02 | 5.46E-02 | 0.00E+00                         | 2.44E-02          | 4.59E-03         | 6.01E-04          | 0.00E+00                |
| Florida | Taylor County        | 12123 | R                    | 1.18E-02                                                                | 1.39E-02 | 2.03E-02 | 2.62E-02 | 4.03E-02 | 4.10E-02 | 6.34E-02 | 7.09E-02 | 0.00E+00                         | 3.61E-02          | 2.66E-03         | 1.54E-03          | 0.00E+00                |
| Florida | Union County         | 12125 | R                    | 1.19E-02                                                                | 1.19E-02 | 1.20E-02 | 1.20E-02 | 1.20E-02 | 1.21E-02 | 1.21E-02 | 1.21E-02 | 0.00E+00                         | 7.29E-03          | 3.93E-03         | 7.41E-04          | 0.00E+00                |
| Florida | Volusia County       | 12127 | U                    | 1.62E-02                                                                | 2.08E-02 | 3.50E-02 | 4.96E-02 | 4.80E-02 | 5.87E-02 | 7.91E-02 | 9.12E-02 | 0.00E+00                         | 9.29E-03          | 2.80E-02         | 1.07E-02          | 0.00E+00                |
| Florida | Wakulla County       | 12129 | R                    | 2.06E-02                                                                | 2.09E-02 | 2.16E-02 | 2.29E-02 | 2.39E-02 | 2.41E-02 | 2.49E-02 | 2.51E-02 | 0.00E+00                         | 1.70E-02          | 4.75E-03         | 2.19E-03          | 0.00E+00                |
| Florida | Walton County        | 12131 | R                    | 9.67E-03                                                                | 1.03E-02 | 1.15E-02 | 1.23E-02 | 1.72E-02 | 2.48E-02 | 2.88E-02 | 2.88E-02 | 8.37E-10                         | 1.24E-02          | 3.24E-03         | 1.62E-03          | 0.00E+00                |
| Florida | Washington County    | 12133 | R                    | 8.39E-03                                                                | 8.46E-03 | 8.66E-03 | 9.00E-03 | 9.84E-03 | 1.03E-02 | 1.11E-02 | 1.13E-02 | 0.00E+00                         | 6.57E-03          | 2.64E-03         | 6.28E-04          | 0.00E+00                |
| Georgia | Statewide            | 13000 | -                    | 7.10E-03                                                                | 8.93E-03 | 1.55E-02 | 4.50E-02 | 6.89E-02 | 1.04E-01 | 1.37E-01 | 1.57E-01 | 5.00E-04                         | 5.37E-03          | 5.19E-02         | 1.11E-02          | 0.00E+00                |
| Georgia | State Urban Counties | 13000 | U                    | 1.38E-02                                                                | 2.11E-02 | 4.50E-02 | 8.69E-02 | 8.80E-02 | 1.26E-01 | 1.52E-01 | 1.73E-01 | 1.42E-04                         | 4.05E-03          | 6.86E-02         | 1.52E-02          | 0.00E+00                |
| Georgia | State Rural Counties | 13000 | R                    | 5.66E-03                                                                | 7.12E-03 | 9.40E-03 | 1.45E-02 | 2.56E-02 | 2.64E-02 | 4.85E-02 | 6.45E-02 | 1.31E-03                         | 8.36E-03          | 1.40E-02         | 1.89E-03          | 0.00E+00                |
| Georgia | Appling County       | 13001 | R                    | 7.16E-03                                                                | 7.44E-03 | 8.28E-03 | 8.87E-03 | 1.84E-02 | 2.59E-02 | 2.67E-02 | 2.70E-02 | 0.00E+00                         | 1.19E-02          | 5.93E-03         | 5.16E-04          | 0.00E+00                |
| Georgia | Atkinson County      | 13003 | R                    | 7.25E-03                                                                | 7.37E-03 | 7.71E-03 | 8.28E-03 | 7.71E-03 | 8.59E-03 | 8.77E-03 | 8.83E-03 | 0.00E+00                         | 5.12E-03          | 2.33E-03         | 2.60E-04          | 0.00E+00                |
| Georgia | Bacon County         | 13005 | R                    | 1.39E-02                                                                | 1.39E-02 | 1.39E-02 | 1.40E-02 | 1.40E-02 | 1.40E-02 | 1.40E-02 | 1.40E-02 | 0.00E+00                         | 9.25E-03          | 4.28E-03         | 4.33E-04          | 0.00E+00                |
| Georgia | Baker County         | 13007 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 2.94E-03 | 6.76E-03 | 6.25E-03 | 6.90E-03 | 7.12E-03 | 0.00E+00                         | 3.34E-03          | 2.93E-03         | 4.81E-04          | 0.00E+00                |
| Georgia | Baldwin County       | 13009 | R                    | 1.73E-02                                                                | 1.81E-02 | 1.99E-02 | 3.38E-02 | 3.96E-02 | 4.50E-02 | 5.40E-02 | 5.97E-02 | 0.00E+00                         | 1.43E-02          | 2.20E-02         | 3.20E-03          | 0.00E+00                |
| Georgia | Banks County         | 13011 | R                    | 0.00E+00                                                                | 0.00E+00 | 5.99E-03 | 1.25E-02 | 1.40E-02 | 1.51E-02 | 1.61E-02 | 1.65E-02 | 0.00E+00                         | 4.46E-03          | 8.14E-03         | 1.43E-03          | 0.00E+00                |
| Georgia | Barrow County        | 13013 | U                    | 2.37E-02                                                                | 2.45E-02 | 2.68E-02 | 3.90E-02 | 3.63E-02 | 4.00E-02 | 4.13E-02 | 4.17E-02 | 0.00E+00                         | 4.09E-03          | 2.62E-02         | 6.02E-03          | 0.00E+00                |
| Georgia | Bartow County        | 13015 | U                    | 1.73E-02                                                                | 1.79E-02 | 1.91E-02 | 2.52E-02 | 3.35E-02 | 3.72E-02 | 5.37E-02 | 5.96E-02 | 5.59E-04                         | 7.12E-03          | 2.22E-02         | 3.62E-03          | 0.00E+00                |
| Georgia | Ben Hill County      | 13017 | U                    | 1.10E-02                                                                | 1.12E-02 | 1.19E-02 | 2.87E-02 | 3.07E-02 | 2.91E-02 | 4.23E-02 | 4.67E-02 | 0.00E+00                         | 1.42E-02          | 1.36E-02         | 2.84E-03          | 0.00E+00                |
| Georgia | Berrien County       | 13019 | R                    | 7.27E-03                                                                | 7.74E-03 | 9.14E-03 | 1.68E-02 | 1.72E-02 | 2.31E-02 | 2.31E-02 | 2.31E-02 | 0.00E+00                         | 1.01E-02          | 6.29E-03         | 8.32E-04          | 0.00E+00                |
| Georgia | Bibb County          | 13021 | U                    | 3.13E-02                                                                | 3.60E-02 | 6.83E-02 | 8.14E-02 | 8.15E-02 | 1.03E-01 | 1.26E-01 | 1.34E-01 | 0.00E+00                         | 4.94E-03          | 6.86E-02         | 7.94E-03          | 0.00E+00                |

| State   | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Georgia | Bleckley County      | 13023 | R                    | 9.04E-03                                                                | 9.84E-03 | 1.22E-02 | 1.62E-02 | 1.56E-02 | 1.63E-02 | 1.64E-02 | 1.64E-02 | 0.00E+00                         | 7.01E-03          | 7.70E-03         | 8.70E-04          | 0.00E+00                |
| Georgia | Brantley County      | 13025 | R                    | 7.28E-03                                                                | 7.61E-03 | 8.57E-03 | 1.02E-02 | 8.99E-03 | 1.02E-02 | 1.02E-02 | 1.02E-02 | 0.00E+00                         | 4.99E-03          | 3.59E-03         | 4.15E-04          | 0.00E+00                |
| Georgia | Brooks County        | 13027 | R                    | 8.68E-03                                                                | 8.79E-03 | 9.18E-03 | 1.04E-02 | 1.32E-02 | 1.58E-02 | 1.66E-02 | 1.66E-02 | 0.00E+00                         | 6.58E-03          | 5.96E-03         | 6.47E-04          | 0.00E+00                |
| Georgia | Bryan County         | 13029 | U                    | 1.31E-02                                                                | 1.32E-02 | 1.32E-02 | 1.33E-02 | 1.33E-02 | 1.72E-02 | 1.95E-02 | 2.02E-02 | 0.00E+00                         | 4.81E-03          | 7.12E-03         | 1.33E-03          | 0.00E+00                |
| Georgia | Bulloch County       | 13031 | R                    | 9.27E-03                                                                | 9.53E-03 | 1.03E-02 | 1.60E-02 | 3.17E-02 | 2.83E-02 | 5.97E-02 | 6.23E-02 | 0.00E+00                         | 9.89E-03          | 2.00E-02         | 1.82E-03          | 0.00E+00                |
| Georgia | Burke County         | 13033 | R                    | 6.56E-03                                                                | 6.99E-03 | 8.52E-03 | 1.07E-02 | 1.20E-02 | 1.28E-02 | 1.47E-02 | 1.61E-02 | 0.00E+00                         | 6.06E-03          | 5.34E-03         | 6.28E-04          | 0.00E+00                |
| Georgia | Butts County         | 13035 | R                    | 2.49E-03                                                                | 4.99E-03 | 1.25E-02 | 2.21E-02 | 2.46E-02 | 2.78E-02 | 2.80E-02 | 2.81E-02 | 0.00E+00                         | 8.75E-03          | 1.38E-02         | 2.10E-03          | 0.00E+00                |
| Georgia | Calhoun County       | 13037 | R                    | 5.74E-03                                                                | 5.85E-03 | 6.18E-03 | 7.81E-03 | 7.72E-03 | 9.34E-03 | 9.52E-03 | 9.58E-03 | 0.00E+00                         | 4.25E-03          | 3.02E-03         | 4.47E-04          | 0.00E+00                |
| Georgia | Camden County        | 13039 | U                    | 6.12E-03                                                                | 6.19E-03 | 6.89E-03 | 7.79E-03 | 1.07E-02 | 1.36E-02 | 1.57E-02 | 1.61E-02 | 0.00E+00                         | 5.63E-03          | 3.76E-03         | 1.30E-03          | 0.00E+00                |
| Georgia | Candler County       | 13043 | R                    | 7.16E-03                                                                | 7.19E-03 | 7.26E-03 | 7.38E-03 | 8.11E-03 | 9.31E-03 | 1.05E-02 | 1.09E-02 | 0.00E+00                         | 4.62E-03          | 3.07E-03         | 4.12E-04          | 0.00E+00                |
| Georgia | Carroll County       | 13045 | U                    | 1.50E-02                                                                | 1.53E-02 | 1.71E-02 | 2.04E-02 | 2.41E-02 | 2.28E-02 | 3.70E-02 | 4.09E-02 | 1.38E-05                         | 4.63E-03          | 1.67E-02         | 2.77E-03          | 0.00E+00                |
| Georgia | Catoosa County       | 13047 | U                    | 1.07E-02                                                                | 2.14E-02 | 3.34E-02 | 4.11E-02 | 5.47E-02 | 7.79E-02 | 9.29E-02 | 9.97E-02 | 1.76E-03                         | 4.67E-03          | 4.33E-02         | 4.97E-03          | 0.00E+00                |
| Georgia | Charlton County      | 13049 | R                    | 8.05E-03                                                                | 8.46E-03 | 9.69E-03 | 1.17E-02 | 9.55E-03 | 1.38E-02 | 1.50E-02 | 1.54E-02 | 0.00E+00                         | 6.19E-03          | 2.71E-03         | 6.54E-04          | 0.00E+00                |
| Georgia | Chatham County       | 13051 | U                    | 6.96E-03                                                                | 2.63E-02 | 4.95E-02 | 7.45E-02 | 7.97E-02 | 1.19E-01 | 1.53E-01 | 1.65E-01 | 0.00E+00                         | 2.63E-03          | 6.50E-02         | 1.21E-02          | 0.00E+00                |
| Georgia | Chattahoochee County | 13053 | U                    | 2.32E-02                                                                | 2.46E-02 | 2.90E-02 | 3.62E-02 | 4.68E-02 | 4.35E-02 | 4.79E-02 | 4.93E-02 | 0.00E+00                         | 9.63E-03          | 3.34E-02         | 3.84E-03          | 0.00E+00                |
| Georgia | Chattooga County     | 13055 | R                    | 1.41E-02                                                                | 1.46E-02 | 1.60E-02 | 1.89E-02 | 2.37E-02 | 2.86E-02 | 3.14E-02 | 3.14E-02 | 2.48E-03                         | 8.26E-03          | 1.21E-02         | 8.28E-04          | 0.00E+00                |
| Georgia | Cherokee County      | 13057 | U                    | 2.41E-02                                                                | 2.69E-02 | 3.86E-02 | 5.19E-02 | 5.41E-02 | 6.84E-02 | 7.91E-02 | 8.06E-02 | 1.80E-05                         | 4.68E-03          | 3.95E-02         | 9.91E-03          | 0.00E+00                |
| Georgia | Clarke County        | 13059 | U                    | 4.81E-02                                                                | 5.24E-02 | 6.43E-02 | 1.07E-01 | 1.02E-01 | 1.19E-01 | 1.52E-01 | 1.89E-01 | 0.00E+00                         | 4.46E-03          | 8.23E-02         | 1.55E-02          | 0.00E+00                |
| Georgia | Clay County          | 13061 | R                    | 6.16E-03                                                                | 6.36E-03 | 6.96E-03 | 7.97E-03 | 9.04E-03 | 8.98E-03 | 9.58E-03 | 9.78E-03 | 0.00E+00                         | 5.86E-03          | 2.65E-03         | 5.39E-04          | 0.00E+00                |
| Georgia | Clayton County       | 13063 | U                    | 7.96E-02                                                                | 8.29E-02 | 9.62E-02 | 1.22E-01 | 1.23E-01 | 1.38E-01 | 1.55E-01 | 1.77E-01 | 7.64E-08                         | 2.46E-03          | 1.03E-01         | 1.73E-02          | 0.00E+00                |
| Georgia | Clinch County        | 13065 | R                    | 6.82E-03                                                                | 6.96E-03 | 7.37E-03 | 8.05E-03 | 9.16E-03 | 8.73E-03 | 9.14E-03 | 9.28E-03 | 0.00E+00                         | 8.04E-03          | 9.37E-04         | 1.86E-04          | 0.00E+00                |
| Georgia | Cobb County          | 13067 | U                    | 8.36E-02                                                                | 8.69E-02 | 9.86E-02 | 1.11E-01 | 1.13E-01 | 1.22E-01 | 1.34E-01 | 1.69E-01 | 1.38E-06                         | 2.54E-03          | 8.82E-02         | 2.24E-02          | 0.00E+00                |
| Georgia | Coffee County        | 13069 | R                    | 7.70E-03                                                                | 7.86E-03 | 9.16E-03 | 1.43E-02 | 1.69E-02 | 1.91E-02 | 2.37E-02 | 2.56E-02 | 0.00E+00                         | 8.19E-03          | 7.90E-02         | 8.10E-04          | 0.00E+00                |
| Georgia | Colquitt County      | 13071 | R                    | 9.25E-03                                                                | 9.36E-03 | 1.03E-02 | 1.48E-02 | 2.53E-02 | 3.23E-02 | 4.06E-02 | 5.25E-02 | 0.00E+00                         | 8.88E-03          | 1.49E-02         | 1.48E-03          | 0.00E+00                |
| Georgia | Columbia County      | 13073 | U                    | 2.54E-02                                                                | 2.87E-02 | 4.62E-02 | 6.36E-02 | 5.56E-02 | 7.57E-02 | 9.45E-02 | 9.70E-02 | 0.00E+00                         | 8.07E-03          | 3.93E-02         | 8.25E-03          | 0.00E+00                |
| Georgia | Cook County          | 13075 | R                    | 8.76E-03                                                                | 9.02E-03 | 9.81E-03 | 1.63E-02 | 1.74E-02 | 2.25E-02 | 2.25E-02 | 2.25E-02 | 0.00E+00                         | 7.05E-03          | 9.12E-03         | 1.22E-03          | 0.00E+00                |
| Georgia | Coweta County        | 13077 | U                    | 1.90E-02                                                                | 1.98E-02 | 2.11E-02 | 3.18E-02 | 3.40E-02 | 4.53E-02 | 4.92E-02 | 5.07E-02 | 7.14E-11                         | 8.49E-03          | 2.12E-02         | 4.38E-03          | 0.00E+00                |
| Georgia | Crawford County      | 13079 | R                    | 1.11E-02                                                                | 1.13E-02 | 1.22E-02 | 1.36E-02 | 1.42E-02 | 1.51E-02 | 1.59E-02 | 1.62E-02 | 0.00E+00                         | 5.40E-03          | 7.82E-03         | 9.66E-04          | 0.00E+00                |
| Georgia | Crisp County         | 13081 | U                    | 1.01E-02                                                                | 1.03E-02 | 1.07E-02 | 1.98E-02 | 1.99E-02 | 2.06E-02 | 2.94E-02 | 3.23E-02 | 0.00E+00                         | 6.53E-03          | 1.12E-02         | 2.24E-03          | 0.00E+00                |
| Georgia | Dade County          | 13083 | U                    | 1.81E-03                                                                | 3.62E-03 | 9.05E-03 | 1.81E-02 | 2.26E-02 | 2.64E-02 | 3.14E-02 | 3.31E-02 | 2.44E-03                         | 5.32E-03          | 1.33E-02         | 1.58E-03          | 0.00E+00                |
| Georgia | Dawson County        | 13085 | R                    | 1.47E-02                                                                | 1.50E-02 | 1.61E-02 | 1.78E-02 | 1.91E-02 | 1.95E-02 | 2.06E-02 | 2.09E-02 | 3.22E-07                         | 5.43E-03          | 1.10E-02         | 2.64E-03          | 0.00E+00                |
| Georgia | Decatur County       | 13087 | R                    | 1.02E-02                                                                | 1.04E-02 | 1.27E-02 | 1.52E-02 | 2.80E-02 | 2.86E-02 | 4.94E-02 | 5.04E-02 | 0.00E+00                         | 1.38E-02          | 1.30E-02         | 1.15E-03          | 0.00E+00                |
| Georgia | DeKalb County        | 13089 | U                    | 1.02E-01                                                                | 1.06E-01 | 1.15E-01 | 1.31E-01 | 1.29E-01 | 1.43E-01 | 1.62E-01 | 1.84E-01 | 8.67E-09                         | 1.67E-03          | 1.04E-01         | 2.34E-02          | 0.00E+00                |
| Georgia | Dodge County         | 13091 | R                    | 8.25E-03                                                                | 8.26E-03 | 8.75E-03 | 1.18E-02 | 1.40E-02 | 1.81E-02 | 1.96E-02 | 1.96E-02 | 0.00E+00                         | 7.73E-03          | 5.71E-03         | 6.02E-04          | 0.00E+00                |
| Georgia | Dooly County         | 13093 | R                    | 5.78E-03                                                                | 5.80E-03 | 5.87E-03 | 5.98E-03 | 5.94E-03 | 6.18E-03 | 6.30E-03 | 6.35E-03 | 0.00E+00                         | 2.87E-03          | 2.62E-03         | 4.53E-04          | 0.00E+00                |
| Georgia | Dougherty County     | 13095 | U                    | 2.61E-02                                                                | 2.81E-02 | 4.24E-02 | 5.75E-02 | 5.72E-02 | 6.93E-02 | 7.54E-02 | 8.08E-02 | 0.00E+00                         | 4.86E-03          | 4.47E-02         | 7.62E-03          | 0.00E+00                |
| Georgia | Douglas County       | 13097 | U                    | 2.46E-02                                                                | 4.92E-02 | 5.95E-02 | 6.57E-02 | 7.69E-02 | 8.54E-02 | 9.57E-02 | 9.58E-02 | 1.64E-07                         | 5.50E-03          | 6.20E-02         | 9.45E-03          | 0.00E+00                |
| Georgia | Early County         | 13099 | R                    | 1.46E-03                                                                | 2.92E-03 | 5.91E-03 | 8.14E-03 | 1.12E-02 | 1.41E-02 | 1.54E-02 | 1.54E-02 | 0.00E+00                         | 7.11E-03          | 3.57E-03         | 5.32E-04          | 0.00E+00                |
| Georgia | Echols County        | 13101 | R                    | 1.18E-03                                                                | 2.35E-03 | 5.88E-03 | 1.18E-02 | 1.65E-02 | 1.69E-02 | 2.01E-02 | 2.11E-02 | 0.00E+00                         | 1.33E-02          | 2.74E-03         | 4.96E-04          | 0.00E+00                |
| Georgia | Effingham County     | 13103 | U                    | 1.09E-02                                                                | 1.14E-02 | 1.29E-02 | 2.02E-02 | 1.76E-02 | 2.22E-02 | 4.49E-02 | 5.24E-02 | 0.00E+00                         | 6.52E-03          | 9.57E-03         | 1.50E-03          | 0.00E+00                |
| Georgia | Elbert County        | 13105 | R                    | 9.91E-03                                                                | 9.96E-03 | 1.01E-02 | 1.11E-02 | 2.08E-02 | 1.20E-02 | 3.74E-02 | 4.59E-02 | 0.00E+00                         | 1.14E-02          | 8.55E-03         | 8.21E-04          | 0.00E+00                |
| Georgia | Emanuel County       | 13107 | R                    | 7.17E-03                                                                | 7.22E-03 | 7.91E-03 | 1.05E-02 | 1.94E-02 | 2.73E-02 | 2.75E-02 | 2.75E-02 | 0.00E+00                         | 1.34E-02          | 5.47E-03         | 5.10E-04          | 0.00E+00                |
| Georgia | Evans County         | 13109 | R                    | 1.73E-02                                                                | 1.81E-02 | 2.03E-02 | 2.40E-02 | 2.27E-02 | 2.42E-02 | 2.43E-02 | 2.44E-02 | 0.00E+00                         | 1.01E-02          | 1.17E-02         | 9.51E-04          | 0.00E+00                |
| Georgia | Fannin County        | 13111 | R                    | 2.67E-03                                                                | 5.34E-03 | 1.08E-02 | 1.27E-02 | 1.91E-02 | 2.09E-02 | 2.67E-02 | 2.85E-02 | 2.31E-05                         | 9.97E-03          | 8.37E-03         | 7.69E-04          | 0.00E+00                |
| Georgia | Fayette County       | 13113 | U                    | 2.79E-02                                                                | 2.90E-02 | 3.94E-02 | 4.14E-02 | 4.52E-02 | 4.95E-02 | 5.45E-02 | 5.49E-02 | 0.00E+00                         | 4.01E-03          | 3.21E-02         | 9.01E-03          | 0.00E+00                |
| Georgia | Floyd County         | 13115 | R                    | 1.08E-03                                                                | 2.16E-02 | 2.71E-02 | 4.40E-02 | 4.74E-02 | 7.25E-02 | 8.38E-02 | 8.80E-02 | 1.11E-04                         | 8.56E-03          | 3.61E-02         | 2.64E-03          | 0.00E+00                |
| Georgia | Forsyth County       | 13117 | U                    | 3.18E-02                                                                | 3.25E-02 | 3.53E-02 | 4.16E-02 | 4.13E-02 | 4.49E-02 | 4.66E-02 | 4.71E-02 | 5.16E-08                         | 3.60E-03          | 2.75E-02         | 1.01E-02          | 0.00E+00                |
| Georgia | Franklin County      | 13119 | R                    | 1.02E-02                                                                | 1.04E-02 | 1.10E-02 | 1.19E-02 | 1.19E-02 | 1.25E-02 | 1.27E-02 | 1.27E-02 | 0.00E+00                         | 3.62E-03          | 7.31E-03         | 9.33E-04          | 0.00E+00                |
| Georgia | Fulton County        | 13121 | U                    | 8.29E-02                                                                | 9.83E-02 | 1.14E-01 | 1.36E-01 | 1.26E-01 | 1.59E-01 | 1.79E-01 | 2.07E-01 | 5.10E-07                         | 1.98E-03          | 9.97E-02         | 2.38E-02          | 0.00E+00                |
| Georgia | Gilmer County        | 13123 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 4.53E-03 | 1.07E-02 | 1.04E-02 | 1.12E-02 | 1.14E-02 | 3.64E-04                         | 5.27E-03          | 4.57E-03         | 5.21E-04          | 0.00E+00                |
| Georgia | Glascok County       | 13125 | R                    | 8.08E-03                                                                | 8.15E-03 | 8.37E-03 | 8.74E-03 | 8.45E-03 | 9.10E-03 | 9.32E-03 | 9.40E-03 | 0.00E+00                         | 5.16E-03          | 2.99E-03         | 2.97E-04          | 0.00E+00                |
| Georgia | Glynn County         | 13127 | R                    | 5.39E-03                                                                | 1.08E-02 | 1.84E-02 | 3.29E-02 | 4.64E-02 | 5.38E-02 | 7.63E-02 | 7.73E-02 | 0.00E+00                         | 6.66E-03          | 3.38E-02         | 5.92E-03          | 0.00E+00                |

| State   | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Georgia | Gordon County     | 13129 | R                    | 1.96E-02                                                                | 2.04E-02 | 2.16E-02 | 3.68E-02 | 4.03E-02 | 5.30E-02 | 6.46E-02 | 8.52E-02 | 1.25E-02                         | 7.38E-03          | 1.87E-02         | 1.75E-03          | 0.00E+00                |
| Georgia | Grady County      | 13131 | R                    | 8.31E-03                                                                | 8.51E-03 | 9.35E-03 | 1.51E-02 | 1.96E-02 | 2.42E-02 | 2.62E-02 | 2.64E-02 | 0.00E+00                         | 9.72E-03          | 8.90E-03         | 9.84E-04          | 0.00E+00                |
| Georgia | Greene County     | 13133 | R                    | 9.37E-03                                                                | 9.42E-03 | 9.56E-03 | 1.24E-02 | 1.33E-02 | 1.37E-02 | 1.48E-02 | 1.52E-02 | 0.00E+00                         | 7.64E-03          | 4.60E-03         | 1.06E-03          | 0.00E+00                |
| Georgia | Gwinnett County   | 13135 | U                    | 6.18E-02                                                                | 7.28E-02 | 9.17E-02 | 1.10E-01 | 1.14E-01 | 1.26E-01 | 1.35E-01 | 1.70E-01 | 3.28E-08                         | 3.14E-03          | 8.28E-02         | 2.81E-02          | 0.00E+00                |
| Georgia | Habersham County  | 13137 | R                    | 1.65E-02                                                                | 1.66E-02 | 1.78E-02 | 2.60E-02 | 2.65E-02 | 3.24E-02 | 3.34E-02 | 3.38E-02 | 0.00E+00                         | 8.19E-03          | 1.62E-02         | 2.05E-03          | 0.00E+00                |
| Georgia | Hall County       | 13139 | R                    | 2.84E-02                                                                | 3.00E-02 | 3.26E-02 | 4.26E-02 | 4.07E-02 | 4.92E-02 | 5.68E-02 | 6.00E-02 | 1.13E-07                         | 4.86E-03          | 2.89E-02         | 6.88E-03          | 0.00E+00                |
| Georgia | Hancock County    | 13141 | R                    | 9.14E-03                                                                | 9.54E-03 | 1.07E-02 | 1.31E-02 | 1.07E-02 | 1.49E-02 | 1.54E-02 | 1.55E-02 | 0.00E+00                         | 6.23E-03          | 3.99E-03         | 5.21E-04          | 0.00E+00                |
| Georgia | Haralson County   | 13143 | R                    | 1.52E-02                                                                | 1.52E-02 | 1.53E-02 | 1.54E-02 | 1.62E-02 | 1.64E-02 | 1.69E-02 | 1.71E-02 | 7.88E-08                         | 5.57E-03          | 9.33E-03         | 1.25E-03          | 0.00E+00                |
| Georgia | Harris County     | 13145 | U                    | 2.83E-03                                                                | 5.65E-03 | 1.41E-02 | 1.52E-02 | 1.67E-02 | 1.61E-02 | 1.86E-02 | 1.95E-02 | 0.00E+00                         | 5.45E-03          | 9.63E-03         | 1.59E-03          | 0.00E+00                |
| Georgia | Hart County       | 13147 | R                    | 1.06E-02                                                                | 1.09E-02 | 1.16E-02 | 1.19E-02 | 1.56E-02 | 1.90E-02 | 1.90E-02 | 1.90E-02 | 0.00E+00                         | 3.96E-03          | 1.02E-02         | 1.44E-03          | 0.00E+00                |
| Georgia | Heard County      | 13149 | R                    | 1.18E-02                                                                | 1.18E-02 | 1.18E-02 | 1.19E-02 | 1.20E-02 | 1.21E-02 | 1.23E-02 | 1.23E-02 | 0.00E+00                         | 5.48E-03          | 5.62E-03         | 9.01E-04          | 0.00E+00                |
| Georgia | Henry County      | 13151 | U                    | 2.73E-02                                                                | 2.82E-02 | 3.11E-02 | 3.78E-02 | 4.85E-02 | 5.21E-02 | 6.24E-02 | 6.96E-02 | 0.00E+00                         | 3.82E-03          | 3.72E-02         | 7.49E-03          | 0.00E+00                |
| Georgia | Houston County    | 13153 | U                    | 1.50E-02                                                                | 1.70E-02 | 2.42E-02 | 4.41E-02 | 4.64E-02 | 6.03E-02 | 7.52E-02 | 7.79E-02 | 0.00E+00                         | 3.83E-03          | 3.54E-02         | 7.12E-03          | 0.00E+00                |
| Georgia | Irwin County      | 13155 | R                    | 5.46E-03                                                                | 5.58E-03 | 5.92E-03 | 6.50E-03 | 6.57E-03 | 8.47E-03 | 9.65E-03 | 1.00E-02 | 0.00E+00                         | 3.11E-03          | 2.93E-03         | 5.36E-04          | 0.00E+00                |
| Georgia | Jackson County    | 13157 | R                    | 1.51E-02                                                                | 1.55E-02 | 1.62E-02 | 1.73E-02 | 1.80E-02 | 1.83E-02 | 2.22E-02 | 2.46E-02 | 0.00E+00                         | 4.17E-03          | 1.18E-02         | 2.03E-03          | 0.00E+00                |
| Georgia | Jasper County     | 13159 | R                    | 9.16E-03                                                                | 9.34E-03 | 9.89E-03 | 1.02E-02 | 9.95E-03 | 1.11E-02 | 1.28E-02 | 1.33E-02 | 0.00E+00                         | 4.00E-03          | 5.22E-03         | 7.26E-04          | 0.00E+00                |
| Georgia | Jeff Davis County | 13161 | R                    | 8.34E-03                                                                | 9.02E-03 | 1.11E-02 | 1.45E-02 | 1.37E-02 | 1.45E-02 | 1.45E-02 | 1.45E-02 | 0.00E+00                         | 8.16E-03          | 5.00E-03         | 5.02E-04          | 0.00E+00                |
| Georgia | Jefferson County  | 13163 | R                    | 8.20E-03                                                                | 8.25E-03 | 8.40E-03 | 9.14E-03 | 9.04E-03 | 1.02E-02 | 1.08E-02 | 1.10E-02 | 0.00E+00                         | 4.57E-03          | 4.06E-03         | 4.12E-04          | 0.00E+00                |
| Georgia | Jenkins County    | 13165 | R                    | 7.10E-03                                                                | 7.13E-03 | 7.20E-03 | 7.33E-03 | 7.19E-03 | 7.46E-03 | 7.54E-03 | 7.56E-03 | 0.00E+00                         | 4.68E-03          | 2.23E-03         | 2.80E-04          | 0.00E+00                |
| Georgia | Johnson County    | 13167 | R                    | 8.02E-03                                                                | 8.57E-03 | 1.02E-02 | 1.17E-02 | 1.14E-02 | 1.23E-02 | 1.23E-02 | 1.23E-02 | 0.00E+00                         | 6.29E-03          | 4.71E-03         | 3.97E-04          | 0.00E+00                |
| Georgia | Jones County      | 13169 | U                    | 1.71E-02                                                                | 1.81E-02 | 2.12E-02 | 2.42E-02 | 2.49E-02 | 2.67E-02 | 2.88E-02 | 2.95E-02 | 0.00E+00                         | 7.73E-03          | 1.56E-02         | 1.60E-03          | 0.00E+00                |
| Georgia | Lamar County      | 13171 | R                    | 1.56E-02                                                                | 1.60E-02 | 1.73E-02 | 1.94E-02 | 1.83E-02 | 1.95E-02 | 1.95E-02 | 1.95E-02 | 0.00E+00                         | 7.09E-03          | 1.00E-02         | 1.23E-03          | 0.00E+00                |
| Georgia | Lanier County     | 13173 | R                    | 1.51E-03                                                                | 3.02E-03 | 7.54E-03 | 1.51E-02 | 1.52E-02 | 1.51E-02 | 1.52E-02 | 1.52E-02 | 0.00E+00                         | 8.36E-03          | 6.03E-03         | 7.67E-04          | 0.00E+00                |
| Georgia | Laurens County    | 13175 | R                    | 4.47E-03                                                                | 7.26E-03 | 9.46E-03 | 1.24E-02 | 2.18E-02 | 2.39E-02 | 4.70E-02 | 5.35E-02 | 0.00E+00                         | 1.05E-02          | 1.03E-02         | 1.02E-03          | 0.00E+00                |
| Georgia | Lee County        | 13177 | R                    | 1.17E-02                                                                | 1.28E-02 | 1.60E-02 | 2.15E-02 | 2.07E-02 | 2.17E-02 | 2.18E-02 | 2.19E-02 | 0.00E+00                         | 5.67E-03          | 1.33E-02         | 1.78E-03          | 0.00E+00                |
| Georgia | Liberty County    | 13179 | R                    | 9.53E-03                                                                | 1.01E-02 | 1.16E-02 | 2.41E-02 | 2.94E-02 | 3.74E-02 | 5.12E-02 | 5.79E-02 | 0.00E+00                         | 1.63E-02          | 1.13E-02         | 1.77E-03          | 0.00E+00                |
| Georgia | Lincoln County    | 13181 | R                    | 9.11E-03                                                                | 9.22E-03 | 9.54E-03 | 1.01E-02 | 1.01E-02 | 1.06E-02 | 1.10E-02 | 1.11E-02 | 0.00E+00                         | 4.82E-03          | 4.32E-03         | 9.26E-04          | 0.00E+00                |
| Georgia | Long County       | 13183 | R                    | 8.84E-03                                                                | 8.86E-03 | 8.93E-03 | 9.06E-03 | 9.06E-03 | 9.18E-03 | 9.25E-03 | 9.27E-03 | 0.00E+00                         | 6.00E-03          | 2.70E-03         | 3.62E-04          | 0.00E+00                |
| Georgia | Lowndes County    | 13185 | R                    | 1.60E-02                                                                | 1.62E-02 | 1.86E-02 | 3.38E-02 | 3.47E-02 | 4.88E-02 | 5.70E-02 | 6.20E-02 | 0.00E+00                         | 9.55E-03          | 2.28E-02         | 2.40E-03          | 0.00E+00                |
| Georgia | Lumpkin County    | 13187 | R                    | 2.21E-02                                                                | 2.22E-02 | 2.23E-02 | 2.25E-02 | 2.25E-02 | 2.27E-02 | 2.29E-02 | 2.29E-02 | 2.04E-05                         | 1.13E-02          | 9.28E-03         | 1.90E-03          | 0.00E+00                |
| Georgia | McDuffie County   | 13189 | U                    | 1.42E-02                                                                | 1.45E-02 | 1.55E-02 | 1.71E-02 | 2.63E-02 | 4.13E-02 | 4.15E-02 | 4.16E-02 | 0.00E+00                         | 1.01E-02          | 1.40E-02         | 2.22E-03          | 0.00E+00                |
| Georgia | McIntosh County   | 13191 | R                    | 8.03E-03                                                                | 8.34E-03 | 9.26E-03 | 1.08E-02 | 1.07E-02 | 1.21E-02 | 1.30E-02 | 1.32E-02 | 0.00E+00                         | 4.42E-03          | 4.72E-03         | 1.61E-03          | 0.00E+00                |
| Georgia | Macon County      | 13193 | R                    | 6.95E-03                                                                | 6.99E-03 | 7.08E-03 | 1.03E-02 | 1.16E-02 | 1.36E-02 | 1.36E-02 | 1.36E-02 | 0.00E+00                         | 6.45E-03          | 4.60E-03         | 5.37E-04          | 0.00E+00                |
| Georgia | Madison County    | 13195 | R                    | 1.25E-02                                                                | 1.33E-02 | 1.48E-02 | 1.52E-02 | 1.78E-02 | 2.05E-02 | 2.22E-02 | 2.23E-02 | 0.00E+00                         | 3.51E-03          | 1.24E-02         | 1.90E-03          | 0.00E+00                |
| Georgia | Marion County     | 13197 | R                    | 9.83E-03                                                                | 9.96E-03 | 1.04E-02 | 1.11E-02 | 1.08E-02 | 1.17E-02 | 1.21E-02 | 1.23E-02 | 0.00E+00                         | 6.35E-03          | 3.87E-03         | 5.42E-04          | 0.00E+00                |
| Georgia | Meriwether County | 13199 | R                    | 1.22E-02                                                                | 1.24E-02 | 1.27E-02 | 1.31E-02 | 1.50E-02 | 1.38E-02 | 1.73E-02 | 1.89E-02 | 0.00E+00                         | 7.12E-03          | 6.90E-03         | 9.73E-04          | 0.00E+00                |
| Georgia | Miller County     | 13201 | R                    | 8.42E-04                                                                | 1.68E-03 | 4.21E-03 | 6.11E-03 | 6.94E-03 | 6.83E-03 | 7.22E-03 | 7.35E-03 | 0.00E+00                         | 3.20E-03          | 3.44E-03         | 3.00E-04          | 0.00E+00                |
| Georgia | Mitchell County   | 13205 | R                    | 7.46E-03                                                                | 7.91E-03 | 1.08E-02 | 1.40E-02 | 1.35E-02 | 1.46E-02 | 1.49E-02 | 1.50E-02 | 0.00E+00                         | 5.34E-03          | 7.17E-03         | 9.54E-04          | 0.00E+00                |
| Georgia | Monroe County     | 13207 | R                    | 1.54E-02                                                                | 1.66E-02 | 2.02E-02 | 2.61E-02 | 2.19E-02 | 4.83E-02 | 8.11E-02 | 9.21E-02 | 0.00E+00                         | 1.11E-02          | 9.53E-03         | 1.19E-03          | 0.00E+00                |
| Georgia | Montgomery County | 13209 | R                    | 8.65E-03                                                                | 8.79E-03 | 9.21E-03 | 9.91E-03 | 1.28E-02 | 1.28E-02 | 1.46E-02 | 1.52E-02 | 0.00E+00                         | 8.05E-03          | 4.28E-03         | 4.92E-04          | 0.00E+00                |
| Georgia | Morgan County     | 13211 | R                    | 8.54E-03                                                                | 8.70E-03 | 9.18E-03 | 9.41E-03 | 9.84E-03 | 1.00E-02 | 1.12E-02 | 1.16E-02 | 0.00E+00                         | 3.59E-03          | 5.38E-03         | 8.65E-04          | 0.00E+00                |
| Georgia | Murray County     | 13213 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-02 | 1.72E-02 | 2.24E-02 | 3.06E-02 | 2.53E-03                         | 6.19E-03          | 1.28E-02         | 1.14E-03          | 0.00E+00                |
| Georgia | Muscogee County   | 13215 | U                    | 4.96E-02                                                                | 5.49E-02 | 7.65E-02 | 9.67E-02 | 9.74E-02 | 1.33E-01 | 1.42E-01 | 1.56E-01 | 0.00E+00                         | 9.81E-03          | 7.53E-02         | 1.24E-02          | 0.00E+00                |
| Georgia | Newton County     | 13217 | U                    | 2.09E-02                                                                | 2.17E-02 | 3.08E-02 | 3.60E-02 | 4.11E-02 | 5.13E-02 | 7.05E-02 | 7.15E-02 | 0.00E+00                         | 6.99E-03          | 2.94E-02         | 4.70E-03          | 0.00E+00                |
| Georgia | Oconee County     | 13219 | R                    | 1.72E-02                                                                | 1.73E-02 | 2.15E-02 | 2.63E-02 | 2.90E-02 | 3.47E-02 | 5.22E-02 | 6.23E-02 | 0.00E+00                         | 3.91E-03          | 2.16E-02         | 3.42E-03          | 0.00E+00                |
| Georgia | Oglethorpe County | 13221 | R                    | 9.81E-03                                                                | 9.84E-03 | 9.92E-03 | 1.01E-02 | 1.33E-02 | 1.23E-02 | 1.36E-02 | 1.41E-02 | 0.00E+00                         | 3.99E-03          | 7.84E-03         | 1.42E-03          | 0.00E+00                |
| Georgia | Paulding County   | 13223 | U                    | 2.82E-02                                                                | 3.05E-02 | 3.58E-02 | 4.43E-02 | 4.36E-02 | 5.26E-02 | 5.36E-02 | 5.37E-02 | 3.79E-06                         | 6.35E-03          | 3.18E-02         | 5.46E-03          | 0.00E+00                |
| Georgia | Peach County      | 13225 | U                    | 1.94E-02                                                                | 2.09E-02 | 2.54E-02 | 2.80E-02 | 2.66E-02 | 3.96E-02 | 4.01E-02 | 4.03E-02 | 0.00E+00                         | 5.75E-03          | 1.89E-02         | 1.97E-03          | 0.00E+00                |
| Georgia | Pickens County    | 13227 | U                    | 1.45E-02                                                                | 1.48E-02 | 1.56E-02 | 1.92E-02 | 1.89E-02 | 2.29E-02 | 2.42E-02 | 2.46E-02 | 1.16E-04                         | 6.79E-03          | 1.05E-02         | 1.43E-03          | 0.00E+00                |
| Georgia | Pierce County     | 13229 | R                    | 7.45E-03                                                                | 7.64E-03 | 8.21E-03 | 1.11E-02 | 1.21E-02 | 1.38E-02 | 1.38E-02 | 1.38E-02 | 0.00E+00                         | 7.14E-03          | 4.56E-03         | 3.93E-04          | 0.00E+00                |
| Georgia | Pike County       | 13231 | R                    | 1.10E-02                                                                | 1.14E-02 | 1.23E-02 | 1.48E-02 | 1.47E-02 | 1.70E-02 | 1.75E-02 | 1.77E-02 | 0.00E+00                         | 3.75E-03          | 9.26E-03         | 1.63E-03          | 0.00E+00                |
| Georgia | Polk County       | 13233 | R                    | 1.61E-02                                                                | 1.67E-02 | 2.37E-02 | 3.69E-02 | 3.41E-02 | 3.88E-02 | 4.44E-02 | 4.73E-02 | 3.37E-05                         | 1.12E-02          | 2.07E-02         | 2.10E-03          | 0.00E+00                |

| State   | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Georgia | Pulaski County       | 13235 | R                    | 5.98E-03                                                                | 6.25E-03 | 7.06E-03 | 8.41E-03 | 1.13E-02 | 1.09E-02 | 1.23E-02 | 1.28E-02 | 0.00E+00                         | 6.38E-03          | 4.35E-03         | 6.15E-04          | 0.00E+00                |
| Georgia | Putnam County        | 13237 | R                    | 8.66E-03                                                                | 8.73E-03 | 8.95E-03 | 9.31E-03 | 9.57E-03 | 1.08E-02 | 1.17E-02 | 1.20E-02 | 0.00E+00                         | 4.63E-03          | 4.29E-03         | 6.41E-04          | 0.00E+00                |
| Georgia | Quitman County       | 13239 | R                    | 1.85E-02                                                                | 1.85E-02 | 1.86E-02 | 1.86E-02 | 1.87E-02 | 1.87E-02 | 1.87E-02 | 1.88E-02 | 0.00E+00                         | 1.39E-02          | 4.00E-03         | 7.40E-04          | 0.00E+00                |
| Georgia | Rabun County         | 13241 | R                    | 1.93E-02                                                                | 1.94E-02 | 1.96E-02 | 1.99E-02 | 2.32E-02 | 2.43E-02 | 2.69E-02 | 2.78E-02 | 0.00E+00                         | 1.44E-02          | 7.75E-03         | 1.08E-03          | 0.00E+00                |
| Georgia | Randolph County      | 13243 | R                    | 7.93E-03                                                                | 8.00E-03 | 8.21E-03 | 8.56E-03 | 8.84E-03 | 8.91E-03 | 9.11E-03 | 9.18E-03 | 0.00E+00                         | 5.84E-03          | 2.54E-03         | 4.63E-04          | 0.00E+00                |
| Georgia | Richmond County      | 13245 | U                    | 3.34E-02                                                                | 4.46E-02 | 5.74E-02 | 6.58E-02 | 6.44E-02 | 8.42E-02 | 9.30E-02 | 1.25E-01 | 0.00E+00                         | 4.68E-03          | 5.28E-02         | 6.89E-03          | 0.00E+00                |
| Georgia | Rockdale County      | 13247 | U                    | 5.40E-02                                                                | 5.55E-02 | 5.77E-02 | 6.23E-02 | 6.97E-02 | 8.28E-02 | 9.88E-02 | 1.02E-01 | 1.52E-11                         | 4.11E-03          | 5.69E-02         | 8.68E-03          | 0.00E+00                |
| Georgia | Schley County        | 13249 | R                    | 1.72E-02                                                                | 1.72E-02 | 1.73E-02 | 1.73E-02 | 1.73E-02 | 1.74E-02 | 1.74E-02 | 1.74E-02 | 0.00E+00                         | 1.14E-02          | 5.33E-03         | 5.68E-04          | 0.00E+00                |
| Georgia | Screven County       | 13251 | R                    | 6.16E-03                                                                | 6.44E-03 | 7.30E-03 | 8.93E-03 | 1.35E-02 | 1.56E-02 | 1.78E-02 | 1.78E-02 | 0.00E+00                         | 9.12E-03          | 4.01E-03         | 4.00E-04          | 0.00E+00                |
| Georgia | Seminole County      | 13253 | R                    | 5.58E-03                                                                | 5.80E-03 | 6.44E-03 | 7.52E-03 | 8.00E-03 | 9.07E-03 | 1.00E-02 | 1.03E-02 | 0.00E+00                         | 3.02E-03          | 4.33E-03         | 6.59E-04          | 0.00E+00                |
| Georgia | Spalding County      | 13255 | U                    | 2.36E-02                                                                | 2.44E-02 | 2.55E-02 | 3.50E-02 | 3.78E-02 | 4.62E-02 | 5.13E-02 | 5.24E-02 | 0.00E+00                         | 5.13E-03          | 2.80E-02         | 4.67E-03          | 0.00E+00                |
| Georgia | Stephens County      | 13257 | R                    | 1.69E-02                                                                | 1.80E-02 | 2.12E-02 | 2.52E-02 | 3.28E-02 | 3.46E-02 | 4.73E-02 | 5.16E-02 | 0.00E+00                         | 1.03E-02          | 1.96E-02         | 2.96E-03          | 0.00E+00                |
| Georgia | Stewart County       | 13259 | R                    | 9.42E-03                                                                | 9.67E-03 | 1.04E-02 | 1.16E-02 | 1.08E-02 | 1.19E-02 | 1.21E-02 | 1.22E-02 | 0.00E+00                         | 6.84E-03          | 3.48E-03         | 4.92E-04          | 0.00E+00                |
| Georgia | Sumter County        | 13261 | U                    | 7.71E-03                                                                | 7.96E-03 | 8.57E-03 | 1.99E-02 | 2.50E-02 | 2.93E-02 | 4.22E-02 | 5.06E-02 | 0.00E+00                         | 9.96E-03          | 1.19E-02         | 3.18E-03          | 0.00E+00                |
| Georgia | Talbot County        | 13263 | R                    | 1.06E-02                                                                | 1.08E-02 | 1.13E-02 | 1.21E-02 | 1.42E-02 | 1.71E-02 | 2.01E-02 | 2.11E-02 | 0.00E+00                         | 7.80E-03          | 5.57E-03         | 8.70E-04          | 0.00E+00                |
| Georgia | Taliaferro County    | 13265 | R                    | 8.23E-03                                                                | 8.24E-03 | 8.28E-03 | 8.35E-03 | 8.41E-03 | 8.41E-03 | 8.46E-03 | 8.47E-03 | 0.00E+00                         | 6.04E-03          | 2.06E-03         | 3.11E-04          | 0.00E+00                |
| Georgia | Tattnall County      | 13267 | R                    | 1.28E-03                                                                | 2.56E-03 | 6.39E-03 | 8.95E-03 | 9.93E-03 | 1.36E-02 | 1.36E-02 | 1.36E-02 | 0.00E+00                         | 5.28E-03          | 4.01E-03         | 6.45E-04          | 0.00E+00                |
| Georgia | Taylor County        | 13269 | R                    | 8.35E-03                                                                | 8.39E-03 | 8.51E-03 | 9.09E-03 | 8.88E-03 | 1.02E-02 | 1.13E-02 | 1.16E-02 | 0.00E+00                         | 5.17E-03          | 3.37E-03         | 3.44E-04          | 0.00E+00                |
| Georgia | Telfair County       | 13271 | R                    | 7.04E-03                                                                | 7.07E-03 | 7.18E-03 | 7.60E-03 | 7.52E-03 | 8.27E-03 | 8.82E-03 | 9.00E-03 | 0.00E+00                         | 4.87E-03          | 2.41E-03         | 2.34E-04          | 0.00E+00                |
| Georgia | Terrell County       | 13273 | U                    | 7.58E-03                                                                | 7.63E-03 | 7.80E-03 | 1.26E-02 | 1.22E-02 | 1.33E-02 | 1.34E-02 | 1.34E-02 | 0.00E+00                         | 4.72E-03          | 6.33E-03         | 1.19E-03          | 0.00E+00                |
| Georgia | Thomas County        | 13275 | R                    | 1.00E-02                                                                | 1.07E-02 | 1.38E-02 | 2.56E-02 | 3.34E-02 | 3.34E-02 | 6.56E-02 | 6.60E-02 | 0.00E+00                         | 1.37E-02          | 1.80E-02         | 1.78E-03          | 0.00E+00                |
| Georgia | Tift County          | 13277 | R                    | 1.33E-02                                                                | 1.43E-02 | 1.62E-02 | 1.77E-02 | 3.26E-02 | 4.38E-02 | 4.63E-02 | 4.92E-02 | 0.00E+00                         | 6.09E-03          | 2.28E-02         | 3.78E-03          | 0.00E+00                |
| Georgia | Toombs County        | 13279 | U                    | 2.78E-03                                                                | 5.57E-03 | 9.42E-03 | 1.56E-02 | 1.89E-02 | 1.92E-02 | 2.76E-02 | 3.29E-02 | 0.00E+00                         | 9.23E-03          | 8.05E-03         | 1.63E-03          | 0.00E+00                |
| Georgia | Towns County         | 13281 | R                    | 1.29E-02                                                                | 1.35E-02 | 1.50E-02 | 1.76E-02 | 1.79E-02 | 2.02E-02 | 2.17E-02 | 2.23E-02 | 7.28E-07                         | 1.02E-02          | 6.68E-03         | 1.03E-03          | 0.00E+00                |
| Georgia | Treutlen County      | 13283 | R                    | 6.81E-03                                                                | 6.89E-03 | 7.16E-03 | 7.59E-03 | 6.96E-03 | 8.03E-03 | 8.29E-03 | 8.38E-03 | 0.00E+00                         | 4.39E-03          | 2.27E-03         | 2.88E-04          | 0.00E+00                |
| Georgia | Troup County         | 13285 | U                    | 7.42E-03                                                                | 1.37E-02 | 1.56E-02 | 3.01E-02 | 3.48E-02 | 4.80E-02 | 5.42E-02 | 6.35E-02 | 0.00E+00                         | 1.22E-02          | 1.84E-02         | 4.27E-03          | 0.00E+00                |
| Georgia | Turner County        | 13287 | U                    | 8.78E-03                                                                | 8.96E-03 | 9.50E-03 | 1.04E-02 | 1.04E-02 | 1.06E-02 | 1.07E-02 | 1.07E-02 | 0.00E+00                         | 5.15E-03          | 4.38E-03         | 8.31E-04          | 0.00E+00                |
| Georgia | Twiggs County        | 13289 | U                    | 1.18E-02                                                                | 1.21E-02 | 1.31E-02 | 1.47E-02 | 1.50E-02 | 1.63E-02 | 1.73E-02 | 1.76E-02 | 0.00E+00                         | 4.86E-03          | 9.12E-03         | 1.05E-03          | 0.00E+00                |
| Georgia | Union County         | 13291 | R                    | 9.65E-03                                                                | 9.70E-03 | 9.83E-03 | 1.01E-02 | 1.27E-02 | 1.44E-02 | 1.70E-02 | 1.79E-02 | 8.68E-05                         | 6.38E-03          | 5.37E-03         | 8.13E-04          | 0.00E+00                |
| Georgia | Upson County         | 13293 | R                    | 1.12E-02                                                                | 1.15E-02 | 1.22E-02 | 1.46E-02 | 2.20E-02 | 2.17E-02 | 3.15E-02 | 3.56E-02 | 0.00E+00                         | 9.34E-03          | 1.19E-02         | 8.19E-04          | 0.00E+00                |
| Georgia | Walker County        | 13295 | U                    | 2.06E-02                                                                | 2.15E-02 | 2.69E-02 | 3.51E-02 | 4.60E-02 | 5.96E-02 | 7.08E-02 | 9.22E-02 | 8.44E-03                         | 6.08E-03          | 2.81E-02         | 3.45E-03          | 0.00E+00                |
| Georgia | Walton County        | 13297 | U                    | 1.89E-02                                                                | 1.94E-02 | 2.26E-02 | 3.42E-02 | 3.53E-02 | 3.87E-02 | 4.54E-02 | 4.54E-02 | 0.00E+00                         | 5.21E-03          | 2.38E-02         | 6.30E-03          | 0.00E+00                |
| Georgia | Ware County          | 13299 | R                    | 1.42E-02                                                                | 1.49E-02 | 3.25E-02 | 4.63E-02 | 5.07E-02 | 7.19E-02 | 8.93E-02 | 9.11E-02 | 0.00E+00                         | 3.60E-02          | 1.38E-02         | 9.42E-04          | 0.00E+00                |
| Georgia | Warren County        | 13301 | R                    | 8.74E-03                                                                | 8.77E-03 | 8.87E-03 | 9.14E-03 | 1.00E-02 | 1.07E-02 | 1.30E-02 | 1.38E-02 | 0.00E+00                         | 5.42E-03          | 4.12E-03         | 4.96E-04          | 0.00E+00                |
| Georgia | Washington County    | 13303 | R                    | 6.70E-03                                                                | 6.90E-03 | 8.18E-03 | 9.42E-03 | 1.73E-02 | 1.68E-02 | 2.56E-02 | 2.74E-02 | 0.00E+00                         | 1.18E-02          | 5.10E-03         | 4.25E-04          | 0.00E+00                |
| Georgia | Wayne County         | 13305 | R                    | 6.36E-03                                                                | 6.71E-03 | 8.03E-03 | 1.31E-02 | 1.67E-02 | 1.73E-02 | 2.64E-02 | 3.08E-02 | 0.00E+00                         | 1.08E-02          | 5.40E-03         | 4.24E-04          | 0.00E+00                |
| Georgia | Webster County       | 13307 | R                    | 8.30E-03                                                                | 8.40E-03 | 8.71E-03 | 9.22E-03 | 9.22E-03 | 9.72E-03 | 1.00E-02 | 1.01E-02 | 0.00E+00                         | 6.25E-03          | 2.61E-03         | 3.64E-04          | 0.00E+00                |
| Georgia | Wheeler County       | 13309 | R                    | 8.89E-03                                                                | 9.13E-03 | 9.88E-03 | 1.11E-02 | 1.12E-02 | 1.24E-02 | 1.31E-02 | 1.33E-02 | 0.00E+00                         | 7.88E-03          | 2.93E-03         | 3.39E-04          | 0.00E+00                |
| Georgia | White County         | 13311 | R                    | 2.08E-02                                                                | 2.09E-02 | 2.12E-02 | 2.17E-02 | 2.67E-02 | 3.08E-02 | 3.62E-02 | 3.80E-02 | 0.00E+00                         | 6.29E-03          | 9.32E-03         | 1.10E-02          | 0.00E+00                |
| Georgia | Whitfield County     | 13313 | R                    | 2.27E-02                                                                | 3.01E-02 | 3.26E-02 | 5.40E-02 | 6.91E-02 | 8.50E-02 | 1.55E-01 | 2.35E-01 | 2.80E-02                         | 5.14E-03          | 3.26E-02         | 3.37E-03          | 0.00E+00                |
| Georgia | Wilcox County        | 13315 | R                    | 5.96E-03                                                                | 6.24E-03 | 7.06E-03 | 7.77E-03 | 7.78E-03 | 8.21E-03 | 8.55E-03 | 8.67E-03 | 0.00E+00                         | 4.59E-03          | 2.82E-03         | 3.71E-04          | 0.00E+00                |
| Georgia | Wilkes County        | 13317 | R                    | 8.75E-03                                                                | 8.77E-03 | 8.83E-03 | 8.93E-03 | 8.80E-03 | 8.93E-03 | 8.93E-03 | 8.93E-03 | 0.00E+00                         | 5.29E-03          | 2.98E-03         | 5.30E-04          | 0.00E+00                |
| Georgia | Wilkinson County     | 13319 | R                    | 9.88E-03                                                                | 9.93E-03 | 1.01E-02 | 1.10E-02 | 1.13E-02 | 1.21E-02 | 1.24E-02 | 1.26E-02 | 0.00E+00                         | 6.12E-03          | 4.66E-03         | 5.39E-04          | 0.00E+00                |
| Georgia | Worth County         | 13321 | R                    | 9.59E-03                                                                | 9.83E-03 | 1.08E-02 | 1.27E-02 | 1.49E-02 | 1.69E-02 | 1.85E-02 | 1.87E-02 | 0.00E+00                         | 5.80E-03          | 7.97E-03         | 1.14E-03          | 0.00E+00                |
| Idaho   | Statewide            | 16000 | -                    | 3.79E-03                                                                | 6.81E-03 | 1.09E-02 | 2.76E-02 | 5.15E-02 | 6.34E-02 | 1.18E-01 | 1.47E-01 | 3.69E-07                         | 5.55E-03          | 3.60E-02         | 9.98E-03          | 0.00E+00                |
| Idaho   | State Urban Counties | 16000 | U                    | 6.92E-03                                                                | 1.03E-02 | 2.34E-02 | 5.33E-02 | 6.98E-02 | 9.65E-02 | 1.39E-01 | 1.61E-01 | 3.96E-07                         | 4.51E-03          | 5.08E-02         | 1.45E-02          | 0.00E+00                |
| Idaho   | State Rural Counties | 16000 | R                    | 2.70E-03                                                                | 3.99E-03 | 7.58E-03 | 1.12E-02 | 1.65E-02 | 2.15E-02 | 3.64E-02 | 4.00E-02 | 3.19E-07                         | 7.55E-03          | 7.66E-03         | 1.32E-03          | 0.00E+00                |
| Idaho   | Ada County           | 16001 | U                    | 4.19E-02                                                                | 6.39E-02 | 9.40E-02 | 1.24E-01 | 1.24E-01 | 1.55E-01 | 1.77E-01 | 2.07E-01 | 1.51E-07                         | 5.05E-03          | 9.12E-02         | 2.74E-02          | 0.00E+00                |
| Idaho   | Adams County         | 16003 | R                    | 9.65E-03                                                                | 9.72E-03 | 9.93E-03 | 1.03E-02 | 1.05E-02 | 1.06E-02 | 1.08E-02 | 1.09E-02 | 0.00E+00                         | 8.68E-03          | 1.15E-03         | 6.40E-04          | 0.00E+00                |
| Idaho   | Bannock County       | 16005 | U                    | 1.07E-02                                                                | 2.00E-02 | 3.32E-02 | 5.33E-02 | 5.32E-02 | 6.84E-02 | 8.65E-02 | 8.90E-02 | 1.03E-07                         | 1.88E-03          | 4.42E-02         | 7.13E-03          | 0.00E+00                |
| Idaho   | Bear Lake County     | 16007 | R                    | 7.25E-03                                                                | 7.25E-03 | 7.25E-03 | 7.25E-03 | 7.25E-03 | 7.25E-03 | 7.25E-03 | 7.25E-03 | 0.00E+00                         | 5.11E-03          | 1.66E-03         | 4.80E-04          | 0.00E+00                |
| Idaho   | Benewah County       | 16009 | R                    | 5.68E-03                                                                | 5.76E-03 | 6.00E-03 | 6.41E-03 | 6.60E-03 | 6.82E-03 | 7.07E-03 | 7.15E-03 | 0.00E+00                         | 4.72E-03          | 1.07E-03         | 8.06E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |          |                                  |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          |          | Contribution to Average from ... |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major    | Area and<br>Other                | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Idaho    | Bingham County       | 16011 | R                    | 4.85E-03                                                                | 6.98E-03 | 9.26E-03 | 1.30E-02 | 1.61E-02 | 2.11E-02 | 2.53E-02 | 2.60E-02 | 1.15E-07 | 1.96E-03                         | 1.31E-02         | 1.01E-03          | 0.00E+00                |
| Idaho    | Blaine County        | 16013 | R                    | 8.06E-03                                                                | 8.24E-03 | 8.79E-03 | 2.15E-02 | 1.77E-02 | 3.06E-02 | 3.27E-02 | 3.34E-02 | 0.00E+00 | 1.05E-02                         | 3.40E-03         | 3.78E-03          | 0.00E+00                |
| Idaho    | Boise County         | 16015 | R                    | 7.09E-03                                                                | 7.36E-03 | 8.20E-03 | 9.58E-03 | 8.48E-03 | 1.10E-02 | 1.18E-02 | 1.21E-02 | 1.13E-08 | 4.37E-03                         | 2.87E-03         | 1.24E-03          | 0.00E+00                |
| Idaho    | Bonner County        | 16017 | R                    | 5.57E-03                                                                | 6.27E-03 | 7.59E-03 | 9.13E-03 | 1.64E-02 | 1.42E-02 | 2.45E-02 | 3.99E-02 | 0.00E+00 | 1.19E-02                         | 2.82E-03         | 1.66E-03          | 0.00E+00                |
| Idaho    | Bonneville County    | 16019 | U                    | 7.75E-03                                                                | 1.02E-02 | 2.84E-02 | 5.53E-02 | 5.72E-02 | 6.91E-02 | 8.19E-02 | 1.01E-01 | 2.35E-07 | 2.63E-03                         | 4.60E-02         | 8.54E-03          | 0.00E+00                |
| Idaho    | Boundary County      | 16021 | R                    | 1.42E-02                                                                | 1.42E-02 | 1.42E-02 | 1.42E-02 | 1.42E-02 | 1.42E-02 | 1.43E-02 | 1.43E-02 | 0.00E+00 | 1.19E-02                         | 1.51E-03         | 8.70E-04          | 0.00E+00                |
| Idaho    | Butte County         | 16023 | R                    | 7.68E-04                                                                | 7.68E-04 | 7.68E-04 | 7.68E-04 | 7.68E-04 | 7.68E-04 | 7.68E-04 | 7.68E-04 | 3.32E-05 | 1.70E-04                         | 4.89E-04         | 7.55E-05          | 0.00E+00                |
| Idaho    | Camas County         | 16025 | R                    | 2.37E-03                                                                | 2.37E-03 | 2.37E-03 | 2.37E-03 | 2.37E-03 | 2.37E-03 | 2.37E-03 | 2.37E-03 | 1.64E-11 | 1.66E-03                         | 3.54E-04         | 3.62E-04          | 0.00E+00                |
| Idaho    | Canyon County        | 16027 | U                    | 2.22E-02                                                                | 2.50E-02 | 3.40E-02 | 6.31E-02 | 6.55E-02 | 1.05E-01 | 1.30E-01 | 1.44E-01 | 2.29E-06 | 3.20E-03                         | 5.25E-02         | 9.81E-03          | 0.00E+00                |
| Idaho    | Caribou County       | 16029 | R                    | 7.51E-03                                                                | 7.51E-03 | 7.52E-03 | 7.52E-03 | 7.53E-03 | 7.53E-03 | 7.53E-03 | 7.53E-03 | 0.00E+00 | 5.85E-03                         | 1.43E-03         | 2.44E-04          | 0.00E+00                |
| Idaho    | Cassia County        | 16031 | R                    | 3.23E-03                                                                | 3.75E-03 | 5.64E-03 | 1.40E-02 | 1.92E-02 | 2.36E-02 | 3.19E-02 | 3.54E-02 | 0.00E+00 | 2.61E-03                         | 1.57E-02         | 9.35E-04          | 0.00E+00                |
| Idaho    | Clark County         | 16033 | R                    | 1.83E-03                                                                | 1.83E-03 | 1.83E-03 | 1.83E-03 | 1.83E-03 | 1.83E-03 | 1.83E-03 | 1.83E-03 | 0.00E+00 | 1.36E-03                         | 3.92E-04         | 7.63E-05          | 0.00E+00                |
| Idaho    | Clearwater County    | 16035 | R                    | 9.60E-03                                                                | 1.17E-02 | 1.79E-02 | 2.82E-02 | 3.31E-02 | 3.85E-02 | 4.47E-02 | 4.67E-02 | 0.00E+00 | 3.02E-02                         | 2.63E-03         | 2.85E-04          | 0.00E+00                |
| Idaho    | Custer County        | 16037 | R                    | 3.54E-03                                                                | 3.87E-03 | 4.88E-03 | 6.56E-03 | 4.32E-03 | 8.24E-03 | 9.24E-03 | 9.58E-03 | 5.19E-07 | 3.30E-03                         | 5.16E-04         | 5.12E-04          | 0.00E+00                |
| Idaho    | Elmore County        | 16039 | R                    | 4.94E-03                                                                | 6.14E-03 | 9.74E-03 | 9.85E-03 | 1.02E-02 | 9.90E-03 | 1.23E-02 | 1.31E-02 | 1.46E-09 | 3.34E-03                         | 6.22E-03         | 6.49E-04          | 0.00E+00                |
| Idaho    | Franklin County      | 16041 | R                    | 9.81E-03                                                                | 9.83E-03 | 9.91E-03 | 1.00E-02 | 1.00E-02 | 1.02E-02 | 1.02E-02 | 1.03E-02 | 1.48E-09 | 5.52E-03                         | 4.19E-03         | 3.17E-04          | 0.00E+00                |
| Idaho    | Fremont County       | 16043 | R                    | 5.50E-03                                                                | 5.74E-03 | 6.45E-03 | 7.63E-03 | 8.55E-03 | 9.26E-03 | 1.02E-02 | 1.06E-02 | 0.00E+00 | 2.34E-03                         | 4.66E-03         | 1.55E-03          | 0.00E+00                |
| Idaho    | Gem County           | 16045 | R                    | 9.40E-03                                                                | 9.90E-03 | 1.14E-02 | 1.39E-02 | 1.84E-02 | 2.08E-02 | 2.49E-02 | 2.63E-02 | 1.01E-07 | 2.18E-03                         | 1.44E-02         | 1.80E-03          | 0.00E+00                |
| Idaho    | Gooding County       | 16047 | R                    | 4.07E-03                                                                | 4.56E-03 | 6.05E-03 | 8.54E-03 | 8.66E-03 | 1.10E-02 | 1.25E-02 | 1.30E-02 | 0.00E+00 | 2.33E-03                         | 5.60E-03         | 7.27E-04          | 0.00E+00                |
| Idaho    | Idaho County         | 16049 | R                    | 5.21E-03                                                                | 6.14E-03 | 8.92E-03 | 1.27E-02 | 1.93E-02 | 2.03E-02 | 2.78E-02 | 3.03E-02 | 0.00E+00 | 1.71E-02                         | 1.78E-03         | 4.65E-04          | 0.00E+00                |
| Idaho    | Jefferson County     | 16051 | R                    | 5.13E-03                                                                | 6.38E-03 | 1.02E-02 | 1.78E-02 | 2.03E-02 | 2.68E-02 | 3.32E-02 | 3.53E-02 | 1.08E-07 | 5.83E-03                         | 1.27E-02         | 1.72E-03          | 0.00E+00                |
| Idaho    | Jerome County        | 16053 | R                    | 6.98E-03                                                                | 7.59E-03 | 9.41E-03 | 1.43E-02 | 1.81E-02 | 2.64E-02 | 3.41E-02 | 3.67E-02 | 0.00E+00 | 1.89E-03                         | 1.32E-02         | 3.02E-03          | 0.00E+00                |
| Idaho    | Kootenai County      | 16055 | U                    | 1.20E-02                                                                | 1.23E-02 | 1.38E-02 | 2.59E-02 | 3.44E-02 | 4.74E-02 | 6.21E-02 | 6.39E-02 | 0.00E+00 | 1.11E-02                         | 1.10E-02         | 1.23E-02          | 0.00E+00                |
| Idaho    | Latah County         | 16057 | U                    | 6.34E-03                                                                | 6.43E-03 | 9.24E-03 | 3.07E-02 | 2.43E-02 | 3.11E-02 | 3.13E-02 | 3.14E-02 | 0.00E+00 | 8.55E-03                         | 9.89E-03         | 5.91E-03          | 0.00E+00                |
| Idaho    | Lemhi County         | 16059 | R                    | 1.28E-02                                                                | 1.37E-02 | 1.66E-02 | 2.15E-02 | 1.85E-02 | 2.15E-02 | 2.15E-02 | 2.15E-02 | 0.00E+00 | 1.58E-02                         | 1.08E-03         | 1.60E-03          | 0.00E+00                |
| Idaho    | Lewis County         | 16061 | R                    | 1.03E-02                                                                | 1.04E-02 | 1.06E-02 | 1.09E-02 | 2.33E-02 | 2.53E-02 | 3.39E-02 | 3.68E-02 | 0.00E+00 | 1.80E-02                         | 4.60E-03         | 7.70E-04          | 0.00E+00                |
| Idaho    | Lincoln County       | 16063 | R                    | 1.13E-03                                                                | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 0.00E+00 | 3.13E-04                         | 6.70E-04         | 1.43E-04          | 0.00E+00                |
| Idaho    | Madison County       | 16065 | U                    | 1.88E-02                                                                | 1.92E-02 | 2.05E-02 | 2.08E-02 | 3.79E-02 | 5.37E-02 | 5.62E-02 | 5.70E-02 | 1.44E-08 | 2.48E-03                         | 3.18E-02         | 3.64E-03          | 0.00E+00                |
| Idaho    | Minidoka County      | 16067 | R                    | 8.48E-03                                                                | 9.20E-03 | 1.14E-02 | 2.42E-02 | 2.03E-02 | 2.45E-02 | 2.65E-02 | 2.72E-02 | 0.00E+00 | 1.68E-03                         | 1.76E-02         | 1.05E-03          | 0.00E+00                |
| Idaho    | Nez Perce County     | 16069 | U                    | 8.42E-03                                                                | 1.01E-02 | 2.32E-02 | 3.90E-02 | 3.95E-02 | 5.51E-02 | 6.14E-02 | 6.49E-02 | 0.00E+00 | 3.05E-03                         | 2.22E-02         | 1.43E-02          | 0.00E+00                |
| Idaho    | Oneida County        | 16071 | R                    | 6.46E-03                                                                | 6.46E-03 | 6.46E-03 | 6.46E-03 | 6.46E-03 | 6.46E-03 | 6.46E-03 | 6.46E-03 | 0.00E+00 | 3.72E-03                         | 1.96E-03         | 7.90E-04          | 0.00E+00                |
| Idaho    | Owyhee County        | 16073 | R                    | 1.93E-03                                                                | 2.47E-03 | 4.11E-03 | 6.85E-03 | 8.36E-03 | 9.58E-03 | 1.12E-02 | 1.18E-02 | 3.67E-07 | 2.78E-03                         | 4.81E-03         | 7.68E-04          | 0.00E+00                |
| Idaho    | Payette County       | 16075 | R                    | 1.62E-02                                                                | 1.79E-02 | 2.27E-02 | 3.27E-02 | 3.03E-02 | 4.01E-02 | 4.01E-02 | 4.01E-02 | 4.89E-08 | 9.60E-03                         | 1.79E-02         | 2.81E-03          | 0.00E+00                |
| Idaho    | Power County         | 16077 | U                    | 2.88E-03                                                                | 2.89E-03 | 2.94E-03 | 3.01E-03 | 2.93E-03 | 3.09E-03 | 3.14E-03 | 3.15E-03 | 0.00E+00 | 8.16E-04                         | 1.78E-03         | 3.34E-04          | 0.00E+00                |
| Idaho    | Shoshone County      | 16079 | R                    | 1.08E-02                                                                | 1.20E-02 | 1.58E-02 | 1.97E-02 | 2.89E-02 | 5.15E-02 | 5.16E-02 | 5.16E-02 | 0.00E+00 | 2.59E-02                         | 1.88E-03         | 1.13E-03          | 0.00E+00                |
| Idaho    | Teton County         | 16081 | R                    | 1.92E-02                                                                | 1.92E-02 | 1.92E-02 | 1.92E-02 | 1.92E-02 | 1.92E-02 | 1.92E-02 | 1.92E-02 | 0.00E+00 | 1.26E-02                         | 2.51E-03         | 4.08E-03          | 0.00E+00                |
| Idaho    | Twin Falls County    | 16083 | U                    | 6.61E-03                                                                | 8.02E-03 | 1.22E-02 | 2.03E-02 | 3.23E-02 | 4.06E-02 | 6.20E-02 | 6.51E-02 | 0.00E+00 | 2.06E-03                         | 2.35E-02         | 6.74E-03          | 0.00E+00                |
| Idaho    | Valley County        | 16085 | R                    | 1.02E-02                                                                | 1.24E-02 | 1.91E-02 | 3.01E-02 | 2.58E-02 | 3.38E-02 | 3.60E-02 | 3.67E-02 | 0.00E+00 | 2.22E-02                         | 1.99E-03         | 1.64E-03          | 0.00E+00                |
| Idaho    | Washington County    | 16087 | U                    | 2.86E-03                                                                | 3.36E-03 | 4.87E-03 | 7.38E-03 | 6.67E-03 | 7.65E-03 | 7.81E-03 | 7.87E-03 | 3.19E-12 | 2.97E-03                         | 3.17E-03         | 5.37E-04          | 0.00E+00                |
| Illinois | Statewide            | 17000 | -                    | 4.28E-03                                                                | 6.85E-03 | 2.28E-02 | 5.82E-02 | 6.20E-02 | 9.26E-02 | 1.22E-01 | 1.42E-01 | 7.23E-05 | 6.53E-04                         | 4.29E-02         | 1.84E-02          | 0.00E+00                |
| Illinois | State Urban Counties | 17000 | U                    | 7.44E-03                                                                | 1.41E-02 | 3.40E-02 | 6.50E-02 | 6.74E-02 | 9.75E-02 | 1.25E-01 | 1.45E-01 | 7.87E-05 | 4.91E-04                         | 4.66E-02         | 2.03E-02          | 0.00E+00                |
| Illinois | State Rural Counties | 17000 | R                    | 3.12E-03                                                                | 3.44E-03 | 4.21E-03 | 6.11E-03 | 1.06E-02 | 1.48E-02 | 2.47E-02 | 3.00E-02 | 1.10E-05 | 2.20E-03                         | 7.37E-03         | 1.02E-03          | 0.00E+00                |
| Illinois | Adams County         | 17001 | U                    | 3.80E-03                                                                | 3.94E-03 | 8.78E-03 | 2.47E-02 | 2.02E-02 | 2.95E-02 | 3.83E-02 | 4.67E-02 | 2.25E-11 | 1.71E-03                         | 1.18E-02         | 6.75E-03          | 0.00E+00                |
| Illinois | Alexander County     | 17003 | R                    | 4.87E-03                                                                | 5.14E-03 | 5.96E-03 | 6.79E-03 | 7.17E-03 | 8.00E-03 | 9.50E-03 | 1.00E-02 | 0.00E+00 | 1.60E-03                         | 4.71E-03         | 8.67E-04          | 0.00E+00                |
| Illinois | Bond County          | 17005 | R                    | 4.25E-03                                                                | 4.29E-03 | 4.41E-03 | 5.03E-03 | 1.06E-02 | 1.01E-02 | 1.82E-02 | 2.09E-02 | 0.00E+00 | 1.78E-03                         | 7.85E-03         | 1.01E-03          | 0.00E+00                |
| Illinois | Boone County         | 17007 | U                    | 7.74E-03                                                                | 8.01E-03 | 9.40E-03 | 1.98E-02 | 1.94E-02 | 2.84E-02 | 2.95E-02 | 2.99E-02 | 5.92E-09 | 1.05E-04                         | 1.42E-02         | 5.13E-03          | 0.00E+00                |
| Illinois | Brown County         | 17009 | R                    | 5.33E-03                                                                | 6.06E-03 | 8.25E-03 | 1.19E-02 | 1.24E-02 | 1.56E-02 | 1.77E-02 | 1.85E-02 | 0.00E+00 | 6.68E-03                         | 5.24E-03         | 4.81E-04          | 0.00E+00                |
| Illinois | Bureau County        | 17011 | R                    | 2.92E-03                                                                | 3.14E-03 | 3.51E-03 | 5.07E-03 | 8.42E-03 | 1.21E-02 | 2.06E-02 | 2.08E-02 | 1.09E-04 | 1.96E-03                         | 5.49E-03         | 8.58E-04          | 0.00E+00                |
| Illinois | Calhoun County       | 17013 | R                    | 5.24E-03                                                                | 5.31E-03 | 5.51E-03 | 5.85E-03 | 5.78E-03 | 6.20E-03 | 6.40E-03 | 6.47E-03 | 2.76E-11 | 1.33E-03                         | 3.08E-03         | 1.37E-03          | 0.00E+00                |
| Illinois | Carroll County       | 17015 | R                    | 3.87E-03                                                                | 3.95E-03 | 4.13E-03 | 4.26E-03 | 5.99E-03 | 4.79E-03 | 8.21E-03 | 9.85E-03 | 8.72E-05 | 9.80E-04                         | 4.04E-03         | 8.87E-04          | 0.00E+00                |
| Illinois | Cass County          | 17017 | R                    | 4.07E-03                                                                | 4.11E-03 | 4.22E-03 | 4.35E-03 | 1.17E-02 | 2.61E-02 | 2.62E-02 | 2.62E-02 | 0.00E+00 | 2.14E-03                         | 8.73E-03         | 8.49E-04          | 0.00E+00                |
| Illinois | Champaign County     | 17019 | U                    | 8.41E-03                                                                | 1.04E-02 | 2.44E-02 | 3.67E-02 | 3.87E-02 | 5.29E-02 | 7.30E-02 | 7.92E-02 | 1.20E-08 | 8.75E-05                         | 2.61E-02         | 1.25E-02          | 0.00E+00                |

| State    | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Illinois | Christian County  | 17021 | R                    | 3.39E-03                                                                | 3.43E-03 | 3.73E-03 | 8.18E-03 | 1.06E-02 | 1.67E-02 | 2.18E-02 | 2.41E-02 | 1.36E-13                         | 9.01E-04          | 8.56E-03         | 1.11E-03          | 0.00E+00                |
| Illinois | Clark County      | 17023 | R                    | 4.53E-03                                                                | 4.78E-03 | 5.51E-03 | 7.53E-03 | 1.13E-02 | 1.27E-02 | 1.90E-02 | 2.11E-02 | 1.69E-11                         | 4.60E-03          | 5.72E-03         | 9.33E-04          | 0.00E+00                |
| Illinois | Clay County       | 17025 | R                    | 3.57E-03                                                                | 3.66E-03 | 3.91E-03 | 5.65E-03 | 1.09E-02 | 1.41E-02 | 2.42E-02 | 2.76E-02 | 1.35E-11                         | 3.94E-03          | 6.26E-03         | 6.93E-04          | 0.00E+00                |
| Illinois | Clinton County    | 17027 | U                    | 3.89E-03                                                                | 4.13E-03 | 4.77E-03 | 6.05E-03 | 6.10E-03 | 7.24E-03 | 7.68E-03 | 7.83E-03 | 0.00E+00                         | 4.67E-04          | 4.47E-03         | 1.17E-03          | 0.00E+00                |
| Illinois | Coles County      | 17029 | U                    | 5.27E-03                                                                | 7.15E-03 | 1.65E-02 | 2.25E-02 | 2.61E-02 | 2.83E-02 | 3.55E-02 | 4.42E-02 | 1.79E-12                         | 4.84E-03          | 1.42E-02         | 7.08E-03          | 0.00E+00                |
| Illinois | Cook County       | 17031 | U                    | 5.39E-02                                                                | 6.10E-02 | 7.33E-02 | 9.41E-02 | 9.99E-02 | 1.18E-01 | 1.44E-01 | 1.56E-01 | 4.10E-06                         | 2.53E-04          | 7.17E-02         | 2.79E-02          | 0.00E+00                |
| Illinois | Crawford County   | 17033 | R                    | 4.61E-03                                                                | 4.68E-03 | 4.84E-03 | 5.42E-03 | 1.11E-02 | 1.58E-02 | 2.31E-02 | 2.51E-02 | 1.62E-12                         | 2.38E-03          | 7.98E-03         | 7.63E-04          | 0.00E+00                |
| Illinois | Cumberland County | 17035 | R                    | 4.71E-03                                                                | 4.74E-03 | 4.82E-03 | 4.96E-03 | 4.97E-03 | 5.07E-03 | 5.14E-03 | 5.17E-03 | 2.65E-10                         | 5.28E-04          | 3.77E-03         | 6.74E-04          | 0.00E+00                |
| Illinois | DeKalb County     | 17037 | U                    | 6.55E-03                                                                | 6.75E-03 | 7.65E-03 | 1.52E-02 | 2.81E-02 | 2.30E-02 | 4.92E-02 | 6.14E-02 | 6.28E-05                         | 1.24E-04          | 1.45E-02         | 1.34E-02          | 0.00E+00                |
| Illinois | De Witt County    | 17039 | R                    | 3.42E-03                                                                | 3.50E-03 | 3.73E-03 | 3.89E-03 | 1.01E-02 | 1.43E-02 | 1.90E-02 | 2.05E-02 | 4.60E-11                         | 7.56E-04          | 8.05E-03         | 1.29E-03          | 0.00E+00                |
| Illinois | Douglas County    | 17041 | R                    | 3.23E-03                                                                | 3.35E-03 | 3.69E-03 | 3.75E-03 | 5.23E-03 | 4.27E-03 | 7.83E-03 | 9.02E-03 | 7.27E-11                         | 1.41E-04          | 4.20E-03         | 8.89E-04          | 0.00E+00                |
| Illinois | DuPage County     | 17043 | U                    | 3.47E-02                                                                | 3.75E-02 | 4.36E-02 | 5.03E-02 | 5.23E-02 | 5.96E-02 | 6.96E-02 | 7.31E-02 | 3.13E-07                         | 1.29E-04          | 3.32E-02         | 1.89E-02          | 0.00E+00                |
| Illinois | Edgar County      | 17045 | R                    | 2.99E-03                                                                | 3.03E-03 | 3.13E-03 | 5.58E-03 | 1.04E-02 | 1.60E-02 | 1.61E-02 | 1.61E-02 | 3.45E-09                         | 1.18E-03          | 8.27E-03         | 9.78E-04          | 0.00E+00                |
| Illinois | Edwards County    | 17047 | R                    | 4.62E-03                                                                | 4.72E-03 | 5.04E-03 | 5.56E-03 | 7.25E-03 | 8.80E-03 | 1.07E-02 | 1.14E-02 | 6.69E-09                         | 7.85E-04          | 5.83E-03         | 6.36E-04          | 0.00E+00                |
| Illinois | Effingham County  | 17049 | R                    | 5.54E-03                                                                | 5.80E-03 | 6.36E-03 | 8.16E-03 | 1.60E-02 | 2.56E-02 | 3.67E-02 | 4.01E-02 | 0.00E+00                         | 3.82E-03          | 1.10E-02         | 1.15E-03          | 0.00E+00                |
| Illinois | Fayette County    | 17051 | R                    | 4.55E-03                                                                | 4.76E-03 | 5.55E-03 | 6.33E-03 | 1.18E-02 | 1.87E-02 | 2.97E-02 | 2.98E-02 | 0.00E+00                         | 4.55E-03          | 6.52E-03         | 7.12E-04          | 0.00E+00                |
| Illinois | Ford County       | 17053 | U                    | 1.57E-03                                                                | 1.65E-03 | 1.88E-03 | 2.24E-03 | 5.14E-03 | 7.13E-03 | 8.82E-03 | 9.38E-03 | 2.41E-06                         | 2.03E-05          | 3.28E-03         | 1.84E-03          | 0.00E+00                |
| Illinois | Franklin County   | 17055 | R                    | 6.64E-03                                                                | 6.83E-03 | 8.55E-03 | 1.96E-02 | 2.02E-02 | 2.82E-02 | 3.38E-02 | 3.78E-02 | 1.32E-11                         | 3.44E-03          | 1.52E-02         | 1.56E-03          | 0.00E+00                |
| Illinois | Fulton County     | 17057 | R                    | 3.35E-03                                                                | 3.41E-03 | 3.51E-03 | 6.38E-03 | 9.55E-03 | 1.16E-02 | 1.97E-02 | 2.40E-02 | 2.93E-08                         | 2.30E-03          | 6.18E-03         | 1.07E-03          | 0.00E+00                |
| Illinois | Gallatin County   | 17059 | R                    | 3.84E-03                                                                | 3.84E-03 | 3.85E-03 | 3.86E-03 | 3.86E-03 | 3.87E-03 | 3.88E-03 | 3.88E-03 | 1.50E-08                         | 6.78E-04          | 2.71E-03         | 4.71E-04          | 0.00E+00                |
| Illinois | Greene County     | 17061 | R                    | 3.29E-03                                                                | 3.42E-03 | 3.82E-03 | 8.02E-03 | 6.80E-03 | 8.82E-03 | 1.05E-02 | 1.11E-02 | 0.00E+00                         | 1.57E-03          | 4.21E-03         | 1.02E-03          | 0.00E+00                |
| Illinois | Grundy County     | 17063 | U                    | 3.07E-03                                                                | 3.47E-03 | 4.58E-03 | 6.32E-03 | 7.90E-03 | 6.90E-03 | 1.35E-02 | 1.63E-02 | 6.01E-04                         | 2.24E-04          | 5.15E-03         | 1.93E-03          | 0.00E+00                |
| Illinois | Hamilton County   | 17065 | R                    | 3.63E-03                                                                | 3.69E-03 | 3.89E-03 | 4.21E-03 | 7.90E-03 | 9.66E-03 | 1.29E-02 | 1.40E-02 | 2.15E-10                         | 2.72E-03          | 4.61E-03         | 5.72E-04          | 0.00E+00                |
| Illinois | Hancock County    | 17067 | R                    | 2.64E-03                                                                | 2.75E-03 | 3.18E-03 | 3.90E-03 | 4.99E-03 | 5.30E-03 | 8.42E-03 | 8.53E-03 | 5.49E-07                         | 1.31E-03          | 3.00E-03         | 6.73E-04          | 0.00E+00                |
| Illinois | Hardin County     | 17069 | R                    | 6.52E-03                                                                | 6.54E-03 | 6.61E-03 | 6.74E-03 | 6.75E-03 | 6.86E-03 | 6.93E-03 | 6.96E-03 | 2.89E-10                         | 2.83E-03          | 3.50E-03         | 4.26E-04          | 0.00E+00                |
| Illinois | Henderson County  | 17071 | R                    | 3.24E-03                                                                | 3.26E-03 | 3.34E-03 | 3.47E-03 | 3.93E-03 | 4.39E-03 | 4.95E-03 | 5.13E-03 | 3.45E-05                         | 1.13E-03          | 2.10E-03         | 6.61E-04          | 0.00E+00                |
| Illinois | Henry County      | 17073 | U                    | 3.99E-03                                                                | 4.14E-03 | 5.55E-03 | 1.03E-02 | 1.46E-02 | 2.55E-02 | 2.94E-02 | 3.30E-02 | 4.44E-05                         | 1.37E-03          | 9.46E-03         | 3.75E-03          | 0.00E+00                |
| Illinois | Iroquois County   | 17075 | R                    | 2.49E-03                                                                | 2.57E-03 | 2.67E-03 | 2.98E-03 | 4.55E-03 | 3.58E-03 | 7.05E-03 | 9.91E-03 | 1.54E-08                         | 6.10E-04          | 3.34E-03         | 6.01E-04          | 0.00E+00                |
| Illinois | Jackson County    | 17077 | U                    | 6.39E-03                                                                | 6.97E-03 | 1.35E-02 | 2.06E-02 | 2.16E-02 | 2.42E-02 | 3.03E-02 | 4.12E-02 | 3.41E-12                         | 3.51E-03          | 1.50E-02         | 3.01E-03          | 0.00E+00                |
| Illinois | Jasper County     | 17079 | R                    | 3.69E-03                                                                | 3.79E-03 | 4.11E-03 | 4.65E-03 | 1.10E-02 | 1.73E-02 | 2.49E-02 | 2.74E-02 | 2.67E-14                         | 3.46E-03          | 6.70E-03         | 8.20E-04          | 0.00E+00                |
| Illinois | Jefferson County  | 17081 | R                    | 6.11E-03                                                                | 6.23E-03 | 7.13E-03 | 1.39E-02 | 1.72E-02 | 2.81E-02 | 3.45E-02 | 3.59E-02 | 2.05E-13                         | 3.26E-03          | 1.27E-02         | 1.20E-03          | 0.00E+00                |
| Illinois | Jersey County     | 17083 | U                    | 6.73E-03                                                                | 6.74E-03 | 6.76E-03 | 9.30E-03 | 8.70E-03 | 1.08E-02 | 1.26E-02 | 1.32E-02 | 0.00E+00                         | 8.64E-04          | 5.39E-03         | 2.44E-03          | 0.00E+00                |
| Illinois | Jo Daviess County | 17085 | R                    | 2.94E-03                                                                | 3.08E-03 | 3.53E-03 | 3.57E-03 | 4.93E-03 | 5.91E-03 | 7.05E-03 | 7.43E-03 | 8.63E-07                         | 1.17E-03          | 3.04E-03         | 7.14E-04          | 0.00E+00                |
| Illinois | Johnson County    | 17087 | R                    | 6.29E-03                                                                | 6.40E-03 | 6.70E-03 | 7.21E-03 | 7.65E-03 | 7.95E-03 | 8.39E-03 | 8.54E-03 | 3.42E-12                         | 2.57E-03          | 4.41E-03         | 6.67E-04          | 0.00E+00                |
| Illinois | Kane County       | 17089 | U                    | 3.90E-03                                                                | 9.69E-03 | 1.57E-02 | 2.05E-02 | 2.24E-02 | 2.55E-02 | 3.21E-02 | 3.86E-02 | 6.82E-07                         | 3.45E-04          | 1.12E-02         | 1.08E-02          | 0.00E+00                |
| Illinois | Kankakee County   | 17091 | U                    | 6.89E-03                                                                | 7.42E-03 | 8.27E-03 | 1.64E-02 | 2.10E-02 | 3.17E-02 | 3.74E-02 | 4.12E-02 | 1.35E-06                         | 3.75E-04          | 1.58E-02         | 4.79E-03          | 0.00E+00                |
| Illinois | Kendall County    | 17093 | U                    | 4.88E-03                                                                | 5.50E-03 | 6.55E-03 | 9.28E-03 | 1.12E-02 | 1.66E-02 | 2.02E-02 | 2.30E-02 | 1.59E-04                         | 3.27E-04          | 6.58E-03         | 4.17E-03          | 0.00E+00                |
| Illinois | Knox County       | 17095 | U                    | 3.66E-03                                                                | 4.39E-03 | 8.74E-03 | 2.01E-02 | 2.19E-02 | 3.02E-02 | 4.05E-02 | 4.62E-02 | 4.49E-07                         | 1.38E-03          | 1.15E-02         | 9.02E-03          | 0.00E+00                |
| Illinois | Lake County       | 17097 | U                    | 4.15E-02                                                                | 4.52E-02 | 5.01E-02 | 5.64E-02 | 5.97E-02 | 6.77E-02 | 7.88E-02 | 8.27E-02 | 3.10E-08                         | 2.35E-04          | 2.48E-02         | 3.47E-02          | 0.00E+00                |
| Illinois | La Salle County   | 17099 | U                    | 4.16E-03                                                                | 6.29E-03 | 7.47E-03 | 1.53E-02 | 2.00E-02 | 2.42E-02 | 3.63E-02 | 4.95E-02 | 6.65E-03                         | 1.29E-03          | 8.46E-03         | 3.57E-03          | 0.00E+00                |
| Illinois | Lawrence County   | 17101 | R                    | 6.17E-03                                                                | 6.47E-03 | 7.38E-03 | 2.20E-02 | 1.90E-02 | 3.37E-02 | 3.39E-02 | 3.40E-02 | 4.30E-11                         | 3.95E-03          | 1.36E-02         | 1.49E-03          | 0.00E+00                |
| Illinois | Lee County        | 17103 | R                    | 3.56E-03                                                                | 3.73E-03 | 4.59E-03 | 4.83E-03 | 1.04E-02 | 1.47E-02 | 1.77E-02 | 2.21E-02 | 9.33E-06                         | 8.88E-04          | 7.65E-03         | 1.81E-03          | 0.00E+00                |
| Illinois | Livingston County | 17105 | U                    | 3.16E-03                                                                | 3.17E-03 | 3.30E-03 | 4.00E-03 | 6.79E-03 | 6.47E-03 | 1.45E-02 | 1.53E-02 | 7.63E-05                         | 3.19E-04          | 4.41E-03         | 1.99E-03          | 0.00E+00                |
| Illinois | Logan County      | 17107 | R                    | 4.10E-03                                                                | 4.14E-03 | 4.19E-03 | 1.34E-02 | 1.60E-02 | 2.60E-02 | 2.97E-02 | 2.99E-02 | 2.18E-11                         | 2.01E-03          | 1.27E-02         | 1.25E-03          | 0.00E+00                |
| Illinois | McDonough County  | 17109 | U                    | 2.33E-03                                                                | 2.45E-03 | 3.19E-03 | 1.36E-02 | 1.77E-02 | 2.25E-02 | 3.81E-02 | 3.83E-02 | 6.44E-08                         | 2.95E-03          | 9.64E-03         | 5.15E-03          | 0.00E+00                |
| Illinois | McHenry County    | 17111 | U                    | 1.01E-02                                                                | 1.06E-02 | 1.15E-02 | 1.72E-02 | 1.85E-02 | 2.32E-02 | 2.73E-02 | 2.87E-02 | 1.40E-08                         | 4.67E-04          | 8.69E-03         | 9.31E-03          | 0.00E+00                |
| Illinois | McLean County     | 17113 | U                    | 6.45E-03                                                                | 7.33E-03 | 1.88E-02 | 3.97E-02 | 3.53E-02 | 4.94E-02 | 6.08E-02 | 6.33E-02 | 3.89E-08                         | 1.08E-04          | 2.32E-02         | 1.21E-02          | 0.00E+00                |
| Illinois | Macon County      | 17115 | U                    | 1.13E-02                                                                | 1.39E-02 | 3.34E-02 | 4.14E-02 | 4.07E-02 | 5.26E-02 | 7.13E-02 | 7.63E-02 | 2.78E-11                         | 6.48E-04          | 3.14E-02         | 8.64E-03          | 0.00E+00                |
| Illinois | Macoupin County   | 17117 | R                    | 4.50E-03                                                                | 4.80E-03 | 5.55E-03 | 1.00E-02 | 1.28E-02 | 1.38E-02 | 2.20E-02 | 2.33E-02 | 0.00E+00                         | 2.40E-03          | 8.95E-03         | 1.49E-03          | 0.00E+00                |
| Illinois | Madison County    | 17119 | U                    | 1.49E-02                                                                | 1.75E-02 | 2.64E-02 | 3.50E-02 | 3.51E-02 | 4.47E-02 | 5.19E-02 | 6.05E-02 | 0.00E+00                         | 6.33E-04          | 2.47E-02         | 9.73E-03          | 0.00E+00                |
| Illinois | Marion County     | 17121 | R                    | 5.42E-03                                                                | 5.60E-03 | 6.87E-03 | 1.31E-02 | 1.57E-02 | 2.23E-02 | 3.14E-02 | 3.44E-02 | 0.00E+00                         | 2.44E-03          | 1.22E-02         | 1.05E-03          | 0.00E+00                |
| Illinois | Marshall County   | 17123 | R                    | 4.36E-03                                                                | 4.53E-03 | 5.05E-03 | 5.10E-03 | 6.30E-03 | 6.15E-03 | 8.81E-03 | 9.69E-03 | 2.73E-05                         | 9.80E-04          | 4.31E-03         | 9.80E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Illinois | Mason County         | 17125 | R                    | 3.18E-03                                                                | 3.54E-03 | 4.35E-03 | 5.06E-03 | 7.50E-03 | 9.20E-03 | 1.21E-02 | 1.30E-02 | 3.21E-10                         | 5.43E-04          | 5.97E-03         | 9.82E-04          | 0.00E+00                |
| Illinois | Massac County        | 17127 | R                    | 9.35E-03                                                                | 9.39E-03 | 9.51E-03 | 1.92E-02 | 1.93E-02 | 2.96E-02 | 3.10E-02 | 3.15E-02 | 0.00E+00                         | 4.85E-03          | 1.31E-02         | 1.33E-03          | 0.00E+00                |
| Illinois | Menard County        | 17129 | R                    | 7.35E-03                                                                | 7.60E-03 | 8.36E-03 | 9.61E-03 | 1.17E-02 | 1.35E-02 | 1.59E-02 | 1.66E-02 | 1.95E-12                         | 1.34E-03          | 8.61E-03         | 1.75E-03          | 0.00E+00                |
| Illinois | Mercer County        | 17131 | R                    | 4.99E-03                                                                | 5.06E-03 | 5.28E-03 | 6.71E-03 | 6.90E-03 | 8.38E-03 | 9.02E-03 | 9.23E-03 | 2.43E-04                         | 8.05E-04          | 4.59E-03         | 1.27E-03          | 0.00E+00                |
| Illinois | Monroe County        | 17133 | U                    | 8.40E-03                                                                | 9.00E-03 | 1.08E-02 | 1.39E-02 | 1.30E-02 | 1.52E-02 | 1.60E-02 | 1.63E-02 | 0.00E+00                         | 1.06E-03          | 8.99E-03         | 2.95E-03          | 0.00E+00                |
| Illinois | Montgomery County    | 17135 | R                    | 4.28E-03                                                                | 4.41E-03 | 4.70E-03 | 6.35E-03 | 1.31E-02 | 2.09E-02 | 2.95E-02 | 2.97E-02 | 0.00E+00                         | 3.21E-03          | 8.86E-03         | 1.05E-03          | 0.00E+00                |
| Illinois | Morgan County        | 17137 | U                    | 3.65E-03                                                                | 3.85E-03 | 5.21E-03 | 1.50E-02 | 1.45E-02 | 2.08E-02 | 2.69E-02 | 2.74E-02 | 0.00E+00                         | 1.27E-03          | 9.18E-03         | 4.06E-03          | 0.00E+00                |
| Illinois | Moultrie County      | 17139 | R                    | 4.95E-03                                                                | 5.07E-03 | 5.41E-03 | 6.42E-03 | 9.41E-03 | 1.06E-02 | 1.66E-02 | 1.87E-02 | 5.95E-13                         | 6.20E-04          | 7.56E-03         | 1.22E-03          | 0.00E+00                |
| Illinois | Ogle County          | 17141 | U                    | 1.10E-02                                                                | 1.15E-02 | 1.21E-02 | 1.71E-02 | 2.14E-02 | 3.30E-02 | 3.80E-02 | 3.81E-02 | 8.69E-07                         | 6.86E-04          | 7.87E-03         | 1.28E-02          | 0.00E+00                |
| Illinois | Peoria County        | 17143 | U                    | 1.24E-02                                                                | 1.46E-02 | 2.84E-02 | 3.82E-02 | 3.97E-02 | 5.06E-02 | 6.85E-02 | 7.36E-02 | 1.05E-07                         | 9.51E-04          | 2.71E-02         | 1.16E-02          | 0.00E+00                |
| Illinois | Perry County         | 17145 | R                    | 5.39E-03                                                                | 5.95E-03 | 7.51E-03 | 1.03E-02 | 1.24E-02 | 1.81E-02 | 2.03E-02 | 2.04E-02 | 0.00E+00                         | 2.62E-03          | 8.67E-03         | 1.06E-03          | 0.00E+00                |
| Illinois | Piatt County         | 17147 | R                    | 4.01E-03                                                                | 4.14E-03 | 4.51E-03 | 4.82E-03 | 5.12E-03 | 5.30E-03 | 5.96E-03 | 6.18E-03 | 9.12E-11                         | 1.10E-04          | 3.86E-03         | 1.15E-03          | 0.00E+00                |
| Illinois | Pike County          | 17149 | R                    | 3.38E-03                                                                | 3.39E-03 | 3.44E-03 | 3.52E-03 | 6.93E-03 | 4.52E-03 | 1.19E-02 | 1.44E-02 | 5.17E-10                         | 2.95E-03          | 3.42E-03         | 5.70E-04          | 0.00E+00                |
| Illinois | Pope County          | 17151 | R                    | 4.52E-03                                                                | 4.63E-03 | 4.97E-03 | 5.52E-03 | 5.55E-03 | 6.08E-03 | 6.41E-03 | 6.53E-03 | 8.52E-11                         | 2.55E-03          | 2.58E-03         | 4.30E-04          | 0.00E+00                |
| Illinois | Pulaski County       | 17153 | R                    | 6.40E-03                                                                | 6.41E-03 | 6.44E-03 | 6.49E-03 | 6.50E-03 | 6.55E-03 | 6.58E-03 | 6.59E-03 | 0.00E+00                         | 1.68E-03          | 4.30E-03         | 5.19E-04          | 0.00E+00                |
| Illinois | Putnam County        | 17155 | R                    | 4.01E-03                                                                | 4.08E-03 | 4.28E-03 | 4.60E-03 | 4.62E-03 | 4.93E-03 | 5.12E-03 | 5.19E-03 | 2.52E-04                         | 7.25E-04          | 2.98E-03         | 6.57E-04          | 0.00E+00                |
| Illinois | Randolph County      | 17157 | R                    | 4.75E-03                                                                | 5.00E-03 | 5.18E-03 | 7.42E-03 | 1.09E-02 | 1.70E-02 | 1.73E-02 | 1.74E-02 | 0.00E+00                         | 3.14E-03          | 6.68E-03         | 1.03E-03          | 0.00E+00                |
| Illinois | Richland County      | 17159 | U                    | 5.60E-03                                                                | 5.93E-03 | 6.94E-03 | 2.14E-02 | 1.52E-02 | 2.45E-02 | 2.59E-02 | 2.63E-02 | 3.79E-12                         | 3.55E-03          | 8.04E-03         | 3.56E-03          | 0.00E+00                |
| Illinois | Rock Island County   | 17161 | U                    | 2.08E-02                                                                | 3.09E-02 | 4.36E-02 | 5.12E-02 | 4.87E-02 | 6.10E-02 | 7.31E-02 | 8.52E-02 | 1.56E-04                         | 2.72E-03          | 3.52E-02         | 1.07E-02          | 0.00E+00                |
| Illinois | St. Clair County     | 17163 | U                    | 1.25E-02                                                                | 1.81E-02 | 3.28E-02 | 4.25E-02 | 3.98E-02 | 5.22E-02 | 5.90E-02 | 6.19E-02 | 0.00E+00                         | 5.57E-04          | 3.05E-02         | 8.78E-03          | 0.00E+00                |
| Illinois | Saline County        | 17165 | U                    | 6.41E-03                                                                | 6.58E-03 | 8.02E-03 | 3.18E-02 | 2.52E-02 | 3.98E-02 | 4.37E-02 | 4.38E-02 | 1.78E-09                         | 4.37E-03          | 1.69E-02         | 3.91E-03          | 0.00E+00                |
| Illinois | Sangamon County      | 17167 | U                    | 1.41E-02                                                                | 1.47E-02 | 3.20E-02 | 4.55E-02 | 4.07E-02 | 6.11E-02 | 7.19E-02 | 8.13E-02 | 1.55E-12                         | 1.29E-03          | 3.09E-02         | 8.57E-03          | 0.00E+00                |
| Illinois | Schuyler County      | 17169 | R                    | 2.25E-03                                                                | 2.31E-03 | 2.46E-03 | 2.73E-03 | 8.20E-03 | 1.05E-02 | 1.52E-02 | 1.67E-02 | 1.66E-11                         | 5.70E-03          | 2.13E-03         | 3.65E-04          | 0.00E+00                |
| Illinois | Scott County         | 17171 | R                    | 2.95E-03                                                                | 2.98E-03 | 3.08E-03 | 3.23E-03 | 3.33E-03 | 3.39E-03 | 3.49E-03 | 3.52E-03 | 0.00E+00                         | 6.14E-04          | 2.26E-03         | 4.50E-04          | 0.00E+00                |
| Illinois | Shelby County        | 17173 | R                    | 3.39E-03                                                                | 3.43E-03 | 3.51E-03 | 3.62E-03 | 6.56E-03 | 4.27E-03 | 1.03E-02 | 1.32E-02 | 0.00E+00                         | 1.38E-03          | 4.49E-03         | 6.81E-04          | 0.00E+00                |
| Illinois | Stark County         | 17175 | R                    | 5.78E-03                                                                | 5.82E-03 | 5.96E-03 | 6.19E-03 | 6.15E-03 | 6.42E-03 | 6.56E-03 | 6.61E-03 | 1.02E-06                         | 2.99E-04          | 4.76E-03         | 1.09E-03          | 0.00E+00                |
| Illinois | Stephenson County    | 17177 | U                    | 4.74E-03                                                                | 5.15E-03 | 6.10E-03 | 2.56E-02 | 2.27E-02 | 3.65E-02 | 4.07E-02 | 4.20E-02 | 2.91E-08                         | 2.13E-03          | 1.39E-02         | 6.64E-03          | 0.00E+00                |
| Illinois | Tazewell County      | 17179 | U                    | 8.53E-03                                                                | 1.05E-02 | 1.66E-02 | 2.38E-02 | 2.62E-02 | 3.19E-02 | 4.20E-02 | 4.71E-02 | 3.59E-08                         | 7.78E-04          | 1.88E-02         | 6.64E-03          | 0.00E+00                |
| Illinois | Union County         | 17181 | R                    | 5.63E-03                                                                | 5.74E-03 | 6.07E-03 | 6.32E-03 | 1.49E-02 | 1.92E-02 | 2.59E-02 | 2.81E-02 | 0.00E+00                         | 5.43E-03          | 8.56E-03         | 8.62E-04          | 0.00E+00                |
| Illinois | Vermilion County     | 17183 | U                    | 5.93E-03                                                                | 6.53E-03 | 1.02E-02 | 1.75E-02 | 1.63E-02 | 2.28E-02 | 2.79E-02 | 2.89E-02 | 5.35E-07                         | 1.36E-03          | 1.05E-02         | 4.39E-03          | 0.00E+00                |
| Illinois | Wabash County        | 17185 | U                    | 7.71E-03                                                                | 1.09E-02 | 2.03E-02 | 2.56E-02 | 1.90E-02 | 2.57E-02 | 2.57E-02 | 2.57E-02 | 1.49E-10                         | 4.78E-03          | 1.04E-02         | 3.85E-03          | 0.00E+00                |
| Illinois | Warren County        | 17187 | R                    | 2.82E-03                                                                | 3.08E-03 | 3.87E-03 | 4.25E-03 | 1.04E-02 | 1.64E-02 | 1.64E-02 | 1.64E-02 | 8.76E-07                         | 1.01E-03          | 7.82E-03         | 1.51E-03          | 0.00E+00                |
| Illinois | Washington County    | 17189 | R                    | 4.18E-03                                                                | 4.20E-03 | 4.24E-03 | 4.33E-03 | 6.78E-03 | 7.26E-03 | 1.24E-02 | 1.41E-02 | 0.00E+00                         | 1.53E-03          | 4.56E-03         | 6.94E-04          | 0.00E+00                |
| Illinois | Wayne County         | 17191 | R                    | 3.22E-03                                                                | 3.24E-03 | 3.31E-03 | 3.68E-03 | 8.39E-03 | 1.72E-02 | 1.73E-02 | 1.73E-02 | 6.02E-11                         | 2.61E-03          | 5.25E-03         | 5.30E-04          | 0.00E+00                |
| Illinois | White County         | 17193 | R                    | 3.75E-03                                                                | 3.83E-03 | 4.06E-03 | 4.17E-03 | 1.03E-02 | 2.02E-02 | 2.06E-02 | 2.08E-02 | 3.19E-08                         | 2.80E-03          | 6.86E-03         | 6.45E-04          | 0.00E+00                |
| Illinois | Whiteside County     | 17195 | U                    | 4.81E-03                                                                | 5.25E-03 | 7.44E-03 | 1.22E-02 | 1.74E-02 | 2.33E-02 | 3.16E-02 | 3.62E-02 | 2.16E-04                         | 2.90E-04          | 1.19E-02         | 5.00E-03          | 0.00E+00                |
| Illinois | Will County          | 17197 | U                    | 9.55E-03                                                                | 1.26E-02 | 1.70E-02 | 2.19E-02 | 2.26E-02 | 2.83E-02 | 3.34E-02 | 3.83E-02 | 2.50E-05                         | 2.57E-04          | 1.40E-02         | 8.34E-03          | 0.00E+00                |
| Illinois | Williamson County    | 17199 | U                    | 8.57E-03                                                                | 9.75E-03 | 1.17E-02 | 1.56E-02 | 2.10E-02 | 3.47E-02 | 4.15E-02 | 4.48E-02 | 6.22E-12                         | 2.31E-03          | 1.48E-02         | 3.90E-03          | 0.00E+00                |
| Illinois | Winnebago County     | 17201 | U                    | 2.22E-02                                                                | 2.92E-02 | 4.30E-02 | 5.50E-02 | 5.35E-02 | 6.63E-02 | 8.15E-02 | 8.78E-02 | 1.93E-10                         | 5.74E-04          | 3.73E-02         | 1.57E-02          | 0.00E+00                |
| Illinois | Woodford County      | 17203 | U                    | 4.67E-03                                                                | 4.91E-03 | 5.04E-03 | 6.96E-03 | 8.29E-03 | 8.73E-03 | 1.32E-02 | 1.47E-02 | 1.28E-07                         | 7.47E-04          | 5.81E-03         | 1.73E-03          | 0.00E+00                |
| Indiana  | Statewide            | 18000 | -                    | 7.55E-03                                                                | 9.25E-03 | 2.04E-02 | 4.30E-02 | 5.27E-02 | 8.01E-02 | 1.14E-01 | 1.36E-01 | 2.62E-04                         | 1.18E-03          | 4.11E-02         | 1.02E-02          | 0.00E+00                |
| Indiana  | State Urban Counties | 18000 | U                    | 1.22E-02                                                                | 1.87E-02 | 3.39E-02 | 5.98E-02 | 6.35E-02 | 9.38E-02 | 1.24E-01 | 1.46E-01 | 3.40E-04                         | 9.53E-04          | 4.95E-02         | 1.27E-02          | 0.00E+00                |
| Indiana  | State Rural Counties | 18000 | R                    | 5.59E-03                                                                | 6.78E-03 | 8.80E-03 | 1.33E-02 | 2.15E-02 | 2.70E-02 | 4.26E-02 | 5.57E-02 | 3.80E-05                         | 1.83E-03          | 1.66E-02         | 3.02E-03          | 0.00E+00                |
| Indiana  | Adams County         | 18001 | U                    | 7.06E-03                                                                | 7.27E-03 | 7.82E-03 | 9.68E-03 | 1.91E-02 | 2.96E-02 | 3.60E-02 | 3.65E-02 | 5.39E-08                         | 1.01E-03          | 1.45E-02         | 3.56E-03          | 0.00E+00                |
| Indiana  | Allen County         | 18003 | U                    | 2.52E-02                                                                | 2.70E-02 | 4.52E-02 | 6.63E-02 | 6.47E-02 | 8.08E-02 | 9.72E-02 | 1.11E-01 | 2.58E-06                         | 7.29E-04          | 4.80E-02         | 1.59E-02          | 0.00E+00                |
| Indiana  | Bartholomew County   | 18005 | R                    | 1.46E-02                                                                | 1.48E-02 | 1.64E-02 | 2.35E-02 | 2.54E-02 | 3.50E-02 | 4.07E-02 | 4.26E-02 | 5.35E-05                         | 1.06E-03          | 2.16E-02         | 2.69E-03          | 0.00E+00                |
| Indiana  | Benton County        | 18007 | R                    | 3.66E-03                                                                | 3.93E-03 | 4.73E-03 | 6.08E-03 | 5.33E-03 | 6.12E-03 | 6.14E-03 | 6.14E-03 | 9.73E-08                         | 6.88E-05          | 4.30E-03         | 9.68E-04          | 0.00E+00                |
| Indiana  | Blackford County     | 18009 | U                    | 8.65E-03                                                                | 8.86E-03 | 9.47E-03 | 2.23E-02 | 2.15E-02 | 3.50E-02 | 3.55E-02 | 3.57E-02 | 4.59E-09                         | 2.80E-03          | 1.45E-02         | 4.24E-03          | 0.00E+00                |
| Indiana  | Boone County         | 18011 | U                    | 1.42E-02                                                                | 1.51E-02 | 2.09E-02 | 3.27E-02 | 4.37E-02 | 5.64E-02 | 6.84E-02 | 6.89E-02 | 7.93E-07                         | 9.71E-04          | 2.91E-02         | 1.36E-02          | 0.00E+00                |
| Indiana  | Brown County         | 18013 | R                    | 1.49E-02                                                                | 1.62E-02 | 1.98E-02 | 2.22E-02 | 2.31E-02 | 2.65E-02 | 3.37E-02 | 3.61E-02 | 8.47E-07                         | 4.80E-03          | 1.30E-02         | 5.26E-03          | 0.00E+00                |
| Indiana  | Carroll County       | 18015 | R                    | 6.96E-03                                                                | 7.01E-03 | 7.68E-03 | 8.31E-03 | 1.12E-02 | 1.37E-02 | 1.86E-02 | 1.95E-02 | 1.72E-08                         | 9.55E-04          | 8.86E-03         | 1.39E-03          | 0.00E+00                |
| Indiana  | Cass County          | 18017 | R                    | 9.78E-03                                                                | 1.14E-02 | 1.23E-02 | 1.43E-02 | 2.32E-02 | 3.30E-02 | 3.65E-02 | 4.04E-02 | 3.27E-09                         | 1.38E-03          | 1.95E-02         | 2.33E-03          | 0.00E+00                |

| State   | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Indiana | Clark County      | 18019 | U                    | 2.02E-02                                                                | 2.44E-02 | 3.43E-02 | 6.16E-02 | 5.30E-02 | 6.97E-02 | 8.24E-02 | 8.26E-02 | 5.80E-03                         | 1.23E-03          | 3.70E-02         | 8.91E-03          | 0.00E+00                |
| Indiana | Clay County       | 18021 | R                    | 8.20E-03                                                                | 8.31E-03 | 9.40E-03 | 1.35E-02 | 2.23E-02 | 2.58E-02 | 3.76E-02 | 4.17E-02 | 4.59E-08                         | 3.03E-03          | 1.76E-02         | 1.67E-03          | 0.00E+00                |
| Indiana | Clinton County    | 18023 | R                    | 8.77E-03                                                                | 9.15E-03 | 1.02E-02 | 2.04E-02 | 2.07E-02 | 3.09E-02 | 3.57E-02 | 3.90E-02 | 1.07E-07                         | 1.88E-04          | 1.83E-02         | 2.26E-03          | 0.00E+00                |
| Indiana | Crawford County   | 18025 | R                    | 8.78E-03                                                                | 8.96E-03 | 9.50E-03 | 1.04E-02 | 1.07E-02 | 1.18E-02 | 1.26E-02 | 1.28E-02 | 9.35E-04                         | 3.43E-03          | 5.42E-03         | 9.01E-04          | 0.00E+00                |
| Indiana | Davess County     | 18027 | R                    | 6.49E-03                                                                | 6.86E-03 | 7.47E-03 | 8.82E-03 | 1.69E-02 | 2.38E-02 | 3.39E-02 | 4.12E-02 | 1.18E-10                         | 1.25E-03          | 1.44E-02         | 1.30E-03          | 0.00E+00                |
| Indiana | Dearborn County   | 18029 | U                    | 1.63E-02                                                                | 1.65E-02 | 2.22E-02 | 3.15E-02 | 2.81E-02 | 3.42E-02 | 3.51E-02 | 3.57E-02 | 3.66E-04                         | 3.80E-03          | 1.87E-02         | 5.24E-03          | 0.00E+00                |
| Indiana | Decatur County    | 18031 | R                    | 7.67E-03                                                                | 7.82E-03 | 8.42E-03 | 1.07E-02 | 1.48E-02 | 1.57E-02 | 2.70E-02 | 3.20E-02 | 5.56E-05                         | 1.10E-03          | 1.21E-02         | 1.58E-03          | 0.00E+00                |
| Indiana | De Kalb County    | 18033 | U                    | 9.30E-03                                                                | 9.42E-03 | 1.01E-02 | 1.47E-02 | 1.74E-02 | 1.82E-02 | 2.66E-02 | 3.04E-02 | 1.20E-06                         | 1.03E-03          | 1.29E-02         | 3.47E-03          | 0.00E+00                |
| Indiana | Delaware County   | 18035 | U                    | 2.32E-02                                                                | 2.48E-02 | 3.91E-02 | 6.52E-02 | 6.27E-02 | 8.95E-02 | 1.03E-01 | 1.14E-01 | 2.95E-08                         | 2.28E-04          | 3.43E-02         | 2.82E-02          | 0.00E+00                |
| Indiana | Dubois County     | 18037 | R                    | 8.90E-03                                                                | 9.10E-03 | 9.88E-03 | 1.57E-02 | 1.77E-02 | 2.52E-02 | 2.76E-02 | 2.81E-02 | 4.27E-06                         | 2.87E-03          | 1.29E-02         | 1.94E-03          | 0.00E+00                |
| Indiana | Elkhart County    | 18039 | R                    | 2.58E-02                                                                | 2.70E-02 | 3.60E-02 | 5.53E-02 | 5.46E-02 | 7.14E-02 | 8.73E-02 | 9.81E-02 | 1.10E-08                         | 6.44E-04          | 4.74E-02         | 6.57E-03          | 0.00E+00                |
| Indiana | Fayette County    | 18041 | U                    | 7.09E-03                                                                | 7.14E-03 | 7.88E-03 | 2.78E-02 | 2.44E-02 | 3.62E-02 | 3.90E-02 | 3.91E-02 | 3.99E-07                         | 1.91E-03          | 1.90E-02         | 3.46E-03          | 0.00E+00                |
| Indiana | Floyd County      | 18043 | U                    | 2.34E-02                                                                | 3.11E-02 | 4.27E-02 | 8.77E-02 | 7.67E-02 | 1.01E-01 | 1.20E-01 | 1.26E-01 | 1.10E-02                         | 1.52E-03          | 5.14E-02         | 1.28E-02          | 0.00E+00                |
| Indiana | Fountain County   | 18045 | R                    | 5.36E-03                                                                | 5.46E-03 | 5.75E-03 | 6.76E-03 | 9.49E-03 | 8.40E-03 | 1.98E-02 | 2.35E-02 | 5.88E-08                         | 1.55E-03          | 7.00E-03         | 9.49E-04          | 0.00E+00                |
| Indiana | Franklin County   | 18047 | R                    | 8.36E-03                                                                | 8.45E-03 | 8.72E-03 | 9.74E-03 | 1.28E-02 | 1.43E-02 | 2.14E-02 | 2.37E-02 | 1.74E-04                         | 2.47E-03          | 8.43E-03         | 1.69E-03          | 0.00E+00                |
| Indiana | Fulton County     | 18049 | R                    | 4.94E-03                                                                | 4.99E-03 | 5.34E-03 | 6.14E-03 | 1.05E-02 | 6.58E-03 | 1.42E-02 | 1.79E-02 | 3.46E-08                         | 8.17E-04          | 8.54E-03         | 1.15E-03          | 0.00E+00                |
| Indiana | Gibson County     | 18051 | R                    | 7.07E-03                                                                | 7.20E-03 | 7.61E-03 | 8.72E-03 | 1.28E-02 | 9.43E-03 | 1.84E-02 | 2.14E-02 | 6.33E-09                         | 1.20E-03          | 1.03E-02         | 1.32E-03          | 0.00E+00                |
| Indiana | Grant County      | 18053 | U                    | 1.17E-02                                                                | 1.24E-02 | 1.39E-02 | 2.71E-02 | 2.59E-02 | 3.13E-02 | 4.32E-02 | 5.34E-02 | 1.07E-08                         | 9.88E-04          | 2.05E-02         | 4.40E-03          | 0.00E+00                |
| Indiana | Greene County     | 18055 | R                    | 6.95E-03                                                                | 7.94E-03 | 8.79E-03 | 1.20E-02 | 1.92E-02 | 3.41E-02 | 4.72E-02 | 4.79E-02 | 1.45E-08                         | 5.18E-03          | 1.23E-02         | 1.70E-03          | 0.00E+00                |
| Indiana | Hamilton County   | 18057 | U                    | 2.85E-02                                                                | 3.06E-02 | 4.07E-02 | 6.01E-02 | 6.22E-02 | 7.95E-02 | 9.18E-02 | 1.09E-01 | 1.20E-06                         | 4.94E-04          | 4.30E-02         | 1.88E-02          | 0.00E+00                |
| Indiana | Hancock County    | 18059 | U                    | 1.87E-02                                                                | 1.95E-02 | 2.51E-02 | 3.72E-02 | 3.89E-02 | 5.65E-02 | 6.33E-02 | 6.72E-02 | 2.61E-06                         | 8.58E-04          | 3.11E-02         | 6.91E-03          | 0.00E+00                |
| Indiana | Harrison County   | 18061 | U                    | 1.45E-02                                                                | 1.46E-02 | 1.51E-02 | 1.95E-02 | 1.89E-02 | 2.30E-02 | 2.42E-02 | 2.48E-02 | 2.09E-03                         | 2.60E-03          | 1.22E-02         | 2.06E-03          | 0.00E+00                |
| Indiana | Hendricks County  | 18063 | U                    | 1.64E-02                                                                | 1.83E-02 | 2.43E-02 | 3.54E-02 | 4.03E-02 | 5.46E-02 | 6.41E-02 | 6.65E-02 | 1.73E-06                         | 4.61E-04          | 3.22E-02         | 7.68E-03          | 0.00E+00                |
| Indiana | Henry County      | 18065 | R                    | 1.17E-02                                                                | 1.27E-02 | 1.42E-02 | 2.13E-02 | 2.70E-02 | 3.98E-02 | 5.14E-02 | 5.90E-02 | 1.65E-07                         | 9.76E-04          | 2.31E-02         | 2.86E-03          | 0.00E+00                |
| Indiana | Howard County     | 18067 | U                    | 2.10E-02                                                                | 2.48E-02 | 3.27E-02 | 5.34E-02 | 4.98E-02 | 6.68E-02 | 7.91E-02 | 8.34E-02 | 5.98E-09                         | 2.40E-04          | 4.29E-02         | 6.68E-03          | 0.00E+00                |
| Indiana | Huntington County | 18069 | U                    | 8.28E-03                                                                | 9.05E-03 | 1.08E-02 | 3.40E-02 | 3.13E-02 | 4.59E-02 | 5.07E-02 | 5.91E-02 | 2.50E-07                         | 3.41E-03          | 2.10E-02         | 6.88E-03          | 0.00E+00                |
| Indiana | Jackson County    | 18071 | R                    | 9.06E-03                                                                | 9.62E-03 | 1.09E-02 | 2.10E-02 | 2.11E-02 | 2.52E-02 | 4.00E-02 | 4.27E-02 | 3.68E-05                         | 2.60E-03          | 1.70E-02         | 1.44E-03          | 0.00E+00                |
| Indiana | Jasper County     | 18073 | R                    | 5.28E-03                                                                | 5.52E-03 | 6.35E-03 | 8.30E-03 | 8.07E-03 | 9.20E-03 | 9.97E-03 | 1.03E-02 | 6.98E-06                         | 3.08E-04          | 6.70E-03         | 1.06E-03          | 0.00E+00                |
| Indiana | Jay County        | 18075 | R                    | 5.02E-03                                                                | 5.02E-03 | 5.26E-03 | 6.90E-03 | 9.58E-03 | 1.32E-02 | 1.64E-02 | 1.65E-02 | 1.98E-08                         | 7.43E-04          | 7.65E-03         | 1.19E-03          | 0.00E+00                |
| Indiana | Jefferson County  | 18077 | U                    | 8.59E-03                                                                | 8.66E-03 | 9.07E-03 | 2.32E-02 | 2.26E-02 | 3.27E-02 | 3.64E-02 | 3.78E-02 | 1.88E-04                         | 5.39E-03          | 1.39E-02         | 3.16E-03          | 0.00E+00                |
| Indiana | Jennings County   | 18079 | R                    | 8.51E-03                                                                | 8.55E-03 | 8.67E-03 | 9.98E-03 | 1.83E-02 | 1.67E-02 | 5.04E-02 | 6.16E-02 | 3.66E-05                         | 6.06E-03          | 1.12E-02         | 9.51E-04          | 0.00E+00                |
| Indiana | Johnson County    | 18081 | U                    | 3.10E-02                                                                | 3.38E-02 | 4.71E-02 | 7.28E-02 | 6.94E-02 | 8.38E-02 | 9.68E-02 | 1.05E-01 | 2.46E-06                         | 4.54E-04          | 4.81E-02         | 2.09E-02          | 0.00E+00                |
| Indiana | Knox County       | 18083 | U                    | 5.89E-03                                                                | 6.26E-03 | 8.98E-03 | 2.46E-02 | 2.21E-02 | 2.95E-02 | 4.49E-02 | 4.96E-02 | 1.03E-10                         | 1.43E-03          | 1.34E-02         | 7.29E-03          | 0.00E+00                |
| Indiana | Kosciusko County  | 18085 | R                    | 2.23E-02                                                                | 2.26E-02 | 2.35E-02 | 2.50E-02 | 2.99E-02 | 3.40E-02 | 3.95E-02 | 4.42E-02 | 1.96E-07                         | 9.28E-04          | 1.60E-02         | 1.30E-02          | 0.00E+00                |
| Indiana | Lagrange County   | 18087 | R                    | 2.14E-02                                                                | 2.16E-02 | 2.25E-02 | 2.38E-02 | 2.70E-02 | 3.06E-02 | 3.70E-02 | 3.90E-02 | 2.23E-07                         | 1.24E-03          | 1.52E-02         | 1.32E-02          | 0.00E+00                |
| Indiana | Lake County       | 18089 | U                    | 2.42E-02                                                                | 3.21E-02 | 3.84E-02 | 4.54E-02 | 4.59E-02 | 5.69E-02 | 6.98E-02 | 7.95E-02 | 9.16E-05                         | 3.41E-04          | 3.69E-02         | 8.58E-03          | 0.00E+00                |
| Indiana | La Porte County   | 18091 | U                    | 1.33E-02                                                                | 1.50E-02 | 1.81E-02 | 2.72E-02 | 3.09E-02 | 4.15E-02 | 5.14E-02 | 5.70E-02 | 6.69E-05                         | 1.15E-03          | 2.24E-02         | 7.31E-03          | 0.00E+00                |
| Indiana | Lawrence County   | 18093 | R                    | 1.01E-02                                                                | 1.04E-02 | 1.21E-02 | 1.73E-02 | 2.15E-02 | 3.58E-02 | 4.35E-02 | 4.77E-02 | 7.49E-09                         | 4.38E-03          | 1.45E-02         | 2.67E-03          | 0.00E+00                |
| Indiana | Madison County    | 18095 | U                    | 2.29E-02                                                                | 2.55E-02 | 3.60E-02 | 4.95E-02 | 5.09E-02 | 6.11E-02 | 9.82E-02 | 1.44E-01 | 1.81E-07                         | 3.35E-04          | 4.27E-02         | 7.87E-03          | 0.00E+00                |
| Indiana | Marion County     | 18097 | U                    | 7.98E-02                                                                | 8.62E-02 | 1.00E-01 | 1.16E-01 | 1.19E-01 | 1.39E-01 | 1.64E-01 | 1.71E-01 | 1.37E-05                         | 2.28E-04          | 9.89E-02         | 1.98E-02          | 0.00E+00                |
| Indiana | Marshall County   | 18099 | R                    | 1.13E-02                                                                | 1.20E-02 | 1.33E-02 | 1.71E-02 | 2.33E-02 | 3.02E-02 | 4.42E-02 | 4.46E-02 | 6.51E-08                         | 1.06E-03          | 1.96E-02         | 2.63E-03          | 0.00E+00                |
| Indiana | Martin County     | 18101 | R                    | 6.32E-03                                                                | 6.54E-03 | 7.17E-03 | 7.80E-03 | 1.12E-02 | 1.07E-02 | 1.56E-02 | 1.72E-02 | 4.09E-10                         | 4.36E-03          | 6.11E-03         | 7.36E-04          | 0.00E+00                |
| Indiana | Miami County      | 18103 | R                    | 8.83E-03                                                                | 8.98E-03 | 1.13E-02 | 1.51E-02 | 2.23E-02 | 2.93E-02 | 4.44E-02 | 5.48E-02 | 4.79E-08                         | 3.80E-03          | 1.69E-02         | 1.60E-03          | 0.00E+00                |
| Indiana | Monroe County     | 18105 | U                    | 2.65E-02                                                                | 3.19E-02 | 5.37E-02 | 7.25E-02 | 7.73E-02 | 9.80E-02 | 1.29E-01 | 1.41E-01 | 1.57E-06                         | 4.41E-03          | 5.24E-02         | 2.05E-02          | 0.00E+00                |
| Indiana | Montgomery County | 18107 | R                    | 7.22E-03                                                                | 7.32E-03 | 8.22E-03 | 9.04E-03 | 1.73E-02 | 2.74E-02 | 3.33E-02 | 3.37E-02 | 4.10E-08                         | 1.55E-03          | 1.44E-02         | 1.41E-03          | 0.00E+00                |
| Indiana | Morgan County     | 18109 | U                    | 2.32E-02                                                                | 2.35E-02 | 2.39E-02 | 3.10E-02 | 3.88E-02 | 5.59E-02 | 6.42E-02 | 7.15E-02 | 1.16E-06                         | 3.41E-03          | 2.85E-02         | 6.85E-03          | 0.00E+00                |
| Indiana | Newton County     | 18111 | R                    | 4.30E-03                                                                | 4.38E-03 | 4.60E-03 | 4.72E-03 | 6.61E-03 | 6.05E-03 | 8.44E-03 | 9.24E-03 | 2.04E-06                         | 2.73E-04          | 5.23E-03         | 1.11E-03          | 0.00E+00                |
| Indiana | Noble County      | 18113 | R                    | 1.12E-02                                                                | 1.15E-02 | 1.32E-02 | 1.38E-02 | 1.80E-02 | 1.79E-02 | 2.71E-02 | 3.54E-02 | 1.23E-06                         | 1.84E-03          | 1.33E-02         | 2.88E-03          | 0.00E+00                |
| Indiana | Ohio County       | 18115 | U                    | 1.43E-02                                                                | 1.53E-02 | 1.81E-02 | 2.29E-02 | 2.24E-02 | 2.76E-02 | 3.04E-02 | 3.14E-02 | 1.59E-04                         | 4.03E-03          | 1.50E-02         | 3.27E-03          | 0.00E+00                |
| Indiana | Orange County     | 18117 | R                    | 8.85E-03                                                                | 8.97E-03 | 9.28E-03 | 9.90E-03 | 1.61E-02 | 1.65E-02 | 2.83E-02 | 3.31E-02 | 8.88E-05                         | 5.72E-03          | 9.28E-03         | 1.05E-03          | 0.00E+00                |
| Indiana | Owen County       | 18119 | R                    | 8.76E-03                                                                | 9.06E-03 | 9.95E-03 | 1.17E-02 | 1.17E-02 | 1.31E-02 | 1.41E-02 | 1.45E-02 | 2.28E-07                         | 2.36E-03          | 7.60E-03         | 1.75E-03          | 0.00E+00                |
| Indiana | Parke County      | 18121 | R                    | 6.29E-03                                                                | 6.54E-03 | 7.31E-03 | 8.14E-03 | 1.02E-02 | 1.09E-02 | 1.51E-02 | 1.65E-02 | 5.49E-08                         | 2.35E-03          | 7.01E-03         | 8.04E-04          | 0.00E+00                |

| State   | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|         |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|         |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Indiana | Perry County         | 18123 | R                    | 9.10E-03                                                                | 9.13E-03 | 9.20E-03 | 2.61E-02 | 2.22E-02 | 2.78E-02 | 3.30E-02 | 3.47E-02 | 1.34E-08                         | 8.04E-03          | 1.33E-02         | 8.91E-04          | 0.00E+00                |
| Indiana | Pike County          | 18125 | R                    | 6.94E-03                                                                | 6.99E-03 | 7.15E-03 | 8.03E-03 | 1.01E-02 | 1.09E-02 | 1.45E-02 | 1.57E-02 | 7.33E-07                         | 2.33E-03          | 6.98E-03         | 7.67E-04          | 0.00E+00                |
| Indiana | Porter County        | 18127 | U                    | 9.45E-03                                                                | 1.29E-02 | 1.70E-02 | 2.73E-02 | 2.86E-02 | 3.22E-02 | 4.23E-02 | 5.21E-02 | 2.49E-04                         | 1.30E-03          | 2.18E-02         | 5.28E-03          | 0.00E+00                |
| Indiana | Posey County         | 18129 | U                    | 9.64E-03                                                                | 1.12E-02 | 1.42E-02 | 1.87E-02 | 2.07E-02 | 2.87E-02 | 3.14E-02 | 3.23E-02 | 2.99E-05                         | 2.11E-03          | 1.55E-02         | 3.12E-03          | 0.00E+00                |
| Indiana | Pulaski County       | 18131 | R                    | 4.71E-03                                                                | 4.82E-03 | 5.16E-03 | 6.10E-03 | 7.26E-03 | 8.09E-03 | 1.03E-02 | 1.11E-02 | 9.67E-08                         | 9.79E-04          | 5.63E-03         | 6.52E-04          | 0.00E+00                |
| Indiana | Putnam County        | 18133 | R                    | 8.68E-03                                                                | 8.85E-03 | 9.12E-03 | 1.01E-02 | 1.42E-02 | 1.71E-02 | 2.10E-02 | 2.10E-02 | 1.90E-07                         | 2.15E-03          | 1.07E-02         | 1.36E-03          | 0.00E+00                |
| Indiana | Randolph County      | 18135 | R                    | 5.54E-03                                                                | 5.60E-03 | 6.02E-03 | 7.80E-03 | 9.69E-03 | 1.33E-02 | 1.51E-02 | 1.61E-02 | 3.50E-08                         | 4.14E-04          | 7.80E-03         | 1.47E-03          | 0.00E+00                |
| Indiana | Ripley County        | 18137 | R                    | 8.27E-03                                                                | 8.69E-03 | 9.69E-03 | 1.06E-02 | 1.21E-02 | 1.53E-02 | 1.78E-02 | 1.84E-02 | 9.89E-04                         | 2.00E-03          | 7.66E-03         | 1.41E-03          | 0.00E+00                |
| Indiana | Rush County          | 18139 | R                    | 5.22E-03                                                                | 5.55E-03 | 6.53E-03 | 8.54E-03 | 1.33E-02 | 2.35E-02 | 2.54E-02 | 2.61E-02 | 4.50E-07                         | 6.68E-04          | 1.13E-02         | 1.40E-03          | 0.00E+00                |
| Indiana | St. Joseph County    | 18141 | U                    | 2.71E-02                                                                | 3.72E-02 | 5.72E-02 | 7.35E-02 | 6.78E-02 | 8.71E-02 | 1.01E-01 | 1.12E-01 | 1.07E-07                         | 6.53E-04          | 5.31E-02         | 1.40E-02          | 0.00E+00                |
| Indiana | Scott County         | 18143 | U                    | 1.23E-02                                                                | 1.27E-02 | 1.39E-02 | 1.45E-02 | 2.05E-02 | 2.96E-02 | 2.97E-02 | 2.97E-02 | 1.88E-04                         | 3.37E-03          | 1.45E-02         | 2.42E-03          | 0.00E+00                |
| Indiana | Shelby County        | 18145 | U                    | 1.71E-02                                                                | 1.90E-02 | 2.32E-02 | 2.56E-02 | 4.25E-02 | 4.20E-02 | 5.86E-02 | 7.48E-02 | 1.32E-06                         | 3.97E-04          | 3.30E-02         | 9.13E-03          | 0.00E+00                |
| Indiana | Spencer County       | 18147 | R                    | 9.52E-03                                                                | 9.62E-03 | 9.93E-03 | 9.96E-03 | 1.05E-02 | 1.10E-02 | 1.16E-02 | 1.18E-02 | 1.15E-06                         | 1.79E-03          | 7.59E-03         | 1.15E-03          | 0.00E+00                |
| Indiana | Starke County        | 18149 | R                    | 8.63E-03                                                                | 8.99E-03 | 9.75E-03 | 1.00E-02 | 1.24E-02 | 1.15E-02 | 1.70E-02 | 2.07E-02 | 7.58E-06                         | 9.75E-04          | 1.02E-02         | 1.26E-03          | 0.00E+00                |
| Indiana | Steuben County       | 18151 | R                    | 9.23E-03                                                                | 9.53E-03 | 1.04E-02 | 1.28E-02 | 1.66E-02 | 2.35E-02 | 2.43E-02 | 2.45E-02 | 1.46E-07                         | 1.59E-03          | 1.28E-02         | 2.20E-03          | 0.00E+00                |
| Indiana | Sullivan County      | 18153 | R                    | 5.44E-03                                                                | 5.64E-03 | 6.22E-03 | 7.55E-03 | 1.00E-02 | 9.04E-03 | 1.29E-02 | 1.43E-02 | 1.61E-13                         | 1.45E-03          | 7.74E-03         | 8.27E-04          | 0.00E+00                |
| Indiana | Switzerland County   | 18155 | R                    | 7.66E-03                                                                | 7.80E-03 | 8.26E-03 | 8.93E-03 | 8.79E-03 | 9.29E-03 | 9.51E-03 | 9.58E-03 | 7.81E-05                         | 2.45E-03          | 5.32E-03         | 9.47E-04          | 0.00E+00                |
| Indiana | Tippecanoe County    | 18157 | U                    | 2.16E-02                                                                | 2.29E-02 | 4.28E-02 | 5.35E-02 | 6.97E-02 | 9.07E-02 | 1.18E-01 | 1.51E-01 | 2.50E-08                         | 1.07E-03          | 5.29E-02         | 1.57E-02          | 0.00E+00                |
| Indiana | Tipton County        | 18159 | R                    | 8.17E-03                                                                | 8.26E-03 | 8.54E-03 | 9.80E-03 | 1.05E-02 | 1.15E-02 | 1.25E-02 | 1.28E-02 | 4.27E-08                         | 2.85E-04          | 8.51E-03         | 1.67E-03          | 0.00E+00                |
| Indiana | Union County         | 18161 | R                    | 6.34E-03                                                                | 6.51E-03 | 7.02E-03 | 7.87E-03 | 7.54E-03 | 8.72E-03 | 9.23E-03 | 9.40E-03 | 7.45E-06                         | 8.61E-04          | 5.59E-03         | 1.08E-03          | 0.00E+00                |
| Indiana | Vanderburgh County   | 18163 | U                    | 3.45E-02                                                                | 4.61E-02 | 5.81E-02 | 7.76E-02 | 8.13E-02 | 1.04E-01 | 1.16E-01 | 1.39E-01 | 3.06E-08                         | 8.39E-04          | 6.49E-02         | 1.55E-02          | 0.00E+00                |
| Indiana | Vermillion County    | 18165 | R                    | 7.69E-03                                                                | 8.24E-03 | 9.91E-03 | 1.26E-02 | 1.69E-02 | 1.54E-02 | 2.49E-02 | 2.81E-02 | 2.19E-08                         | 1.74E-03          | 1.39E-02         | 1.23E-03          | 0.00E+00                |
| Indiana | Vigo County          | 18167 | U                    | 2.39E-02                                                                | 2.44E-02 | 4.02E-02 | 5.77E-02 | 5.02E-02 | 7.12E-02 | 7.75E-02 | 8.28E-02 | 7.94E-09                         | 1.60E-03          | 4.24E-02         | 6.25E-03          | 0.00E+00                |
| Indiana | Wabash County        | 18169 | U                    | 9.82E-03                                                                | 9.92E-03 | 1.08E-02 | 1.71E-02 | 2.00E-02 | 2.53E-02 | 3.11E-02 | 3.54E-02 | 6.46E-08                         | 1.77E-03          | 1.44E-02         | 3.88E-03          | 0.00E+00                |
| Indiana | Warren County        | 18171 | R                    | 4.82E-03                                                                | 4.84E-03 | 4.93E-03 | 5.06E-03 | 5.05E-03 | 5.20E-03 | 5.28E-03 | 5.31E-03 | 4.18E-08                         | 4.89E-04          | 3.83E-03         | 7.29E-04          | 0.00E+00                |
| Indiana | Warrick County       | 18173 | U                    | 1.33E-02                                                                | 1.50E-02 | 1.61E-02 | 2.71E-02 | 3.09E-02 | 3.67E-02 | 4.60E-02 | 4.79E-02 | 8.87E-09                         | 2.68E-03          | 2.37E-02         | 4.47E-03          | 0.00E+00                |
| Indiana | Washington County    | 18175 | R                    | 7.26E-03                                                                | 7.60E-03 | 8.36E-03 | 8.85E-03 | 1.24E-02 | 1.02E-02 | 2.18E-02 | 2.75E-02 | 3.10E-04                         | 2.95E-03          | 8.20E-03         | 9.55E-04          | 0.00E+00                |
| Indiana | Wayne County         | 18177 | U                    | 8.62E-03                                                                | 8.96E-03 | 1.15E-02 | 2.28E-02 | 2.63E-02 | 3.48E-02 | 5.31E-02 | 6.60E-02 | 6.95E-07                         | 1.48E-03          | 2.08E-02         | 3.98E-03          | 0.00E+00                |
| Indiana | Wells County         | 18179 | U                    | 7.02E-03                                                                | 7.82E-03 | 9.46E-03 | 1.55E-02 | 1.74E-02 | 2.46E-02 | 2.99E-02 | 3.16E-02 | 1.12E-07                         | 6.38E-04          | 1.34E-02         | 3.30E-03          | 0.00E+00                |
| Indiana | White County         | 18181 | R                    | 6.21E-03                                                                | 6.46E-03 | 7.39E-03 | 8.90E-03 | 1.17E-02 | 9.72E-03 | 1.41E-02 | 1.89E-02 | 9.94E-08                         | 5.42E-04          | 8.64E-03         | 2.49E-03          | 0.00E+00                |
| Indiana | Whitley County       | 18183 | U                    | 1.11E-02                                                                | 1.15E-02 | 1.21E-02 | 1.22E-02 | 1.43E-02 | 1.61E-02 | 1.92E-02 | 1.93E-02 | 6.15E-06                         | 9.39E-04          | 1.05E-02         | 2.82E-03          | 0.00E+00                |
| Iowa    | Statewide            | 19000 | -                    | 2.06E-03                                                                | 2.61E-03 | 4.17E-03 | 1.68E-02 | 2.94E-02 | 4.52E-02 | 7.22E-02 | 8.83E-02 | 1.61E-04                         | 1.99E-03          | 1.99E-02         | 7.37E-03          | 0.00E+00                |
| Iowa    | State Urban Counties | 19000 | U                    | 4.09E-03                                                                | 5.56E-03 | 1.77E-02 | 3.58E-02 | 4.20E-02 | 6.24E-02 | 8.57E-02 | 9.42E-02 | 2.31E-04                         | 2.42E-03          | 2.86E-02         | 1.07E-02          | 0.00E+00                |
| Iowa    | State Rural Counties | 19000 | R                    | 1.86E-03                                                                | 2.04E-03 | 2.74E-03 | 3.81E-03 | 7.66E-03 | 8.46E-03 | 1.75E-02 | 2.23E-02 | 3.99E-05                         | 1.27E-03          | 4.81E-03         | 1.55E-03          | 0.00E+00                |
| Iowa    | Adair County         | 19001 | R                    | 2.02E-03                                                                | 2.03E-03 | 2.04E-03 | 2.06E-03 | 2.97E-03 | 3.31E-03 | 4.06E-03 | 4.31E-03 | 0.00E+00                         | 3.71E-04          | 2.19E-03         | 4.13E-04          | 0.00E+00                |
| Iowa    | Adams County         | 19003 | R                    | 1.72E-03                                                                | 1.78E-03 | 1.97E-03 | 2.29E-03 | 2.33E-03 | 2.61E-03 | 2.80E-03 | 2.86E-03 | 0.00E+00                         | 3.06E-04          | 1.71E-03         | 3.15E-04          | 0.00E+00                |
| Iowa    | Allamakee County     | 19005 | R                    | 3.84E-03                                                                | 4.01E-03 | 4.54E-03 | 4.85E-03 | 6.55E-03 | 5.58E-03 | 8.77E-03 | 9.83E-03 | 0.00E+00                         | 3.21E-03          | 2.94E-03         | 4.02E-04          | 0.00E+00                |
| Iowa    | Appanoose County     | 19007 | R                    | 2.04E-03                                                                | 2.05E-03 | 2.10E-03 | 2.23E-03 | 6.03E-03 | 9.97E-03 | 1.04E-02 | 1.06E-02 | 0.00E+00                         | 1.81E-03          | 3.75E-03         | 4.74E-04          | 0.00E+00                |
| Iowa    | Audubon County       | 19009 | R                    | 2.01E-03                                                                | 2.17E-03 | 2.64E-03 | 3.41E-03 | 2.99E-03 | 3.42E-03 | 3.42E-03 | 3.42E-03 | 0.00E+00                         | 1.31E-04          | 2.44E-03         | 4.19E-04          | 0.00E+00                |
| Iowa    | Benton County        | 19011 | R                    | 2.76E-03                                                                | 2.83E-03 | 3.30E-03 | 3.77E-03 | 5.95E-03 | 5.88E-03 | 8.93E-03 | 1.06E-02 | 1.72E-05                         | 9.28E-04          | 4.23E-03         | 7.81E-04          | 0.00E+00                |
| Iowa    | Black Hawk County    | 19013 | U                    | 1.51E-02                                                                | 2.15E-02 | 3.00E-02 | 4.59E-02 | 4.35E-02 | 5.42E-02 | 6.75E-02 | 6.94E-02 | 1.79E-07                         | 6.85E-04          | 3.64E-02         | 6.38E-03          | 0.00E+00                |
| Iowa    | Boone County         | 19015 | U                    | 3.75E-03                                                                | 3.95E-03 | 4.76E-03 | 7.41E-03 | 1.79E-02 | 2.95E-02 | 3.33E-02 | 3.48E-02 | 0.00E+00                         | 3.92E-03          | 1.01E-02         | 3.93E-03          | 0.00E+00                |
| Iowa    | Bremer County        | 19017 | R                    | 5.25E-03                                                                | 5.72E-03 | 7.31E-03 | 9.68E-03 | 1.34E-02 | 1.90E-02 | 2.38E-02 | 2.40E-02 | 0.00E+00                         | 2.11E-03          | 1.01E-02         | 1.14E-03          | 0.00E+00                |
| Iowa    | Buchanan County      | 19019 | R                    | 3.51E-03                                                                | 3.78E-03 | 4.42E-03 | 8.68E-03 | 9.74E-03 | 1.62E-02 | 1.75E-02 | 1.76E-02 | 1.96E-06                         | 5.87E-04          | 8.18E-03         | 9.71E-04          | 0.00E+00                |
| Iowa    | Buena Vista County   | 19021 | R                    | 2.43E-03                                                                | 2.48E-03 | 2.66E-03 | 3.17E-03 | 7.86E-03 | 1.08E-02 | 1.33E-02 | 1.34E-02 | 0.00E+00                         | 7.47E-05          | 7.04E-03         | 7.43E-04          | 0.00E+00                |
| Iowa    | Butler County        | 19023 | R                    | 3.46E-03                                                                | 3.60E-03 | 4.03E-03 | 4.16E-03 | 4.60E-03 | 5.01E-03 | 5.79E-03 | 6.05E-03 | 0.00E+00                         | 3.38E-04          | 3.72E-03         | 5.41E-04          | 0.00E+00                |
| Iowa    | Calhoun County       | 19025 | R                    | 2.62E-03                                                                | 2.64E-03 | 2.73E-03 | 2.78E-03 | 2.80E-03 | 2.83E-03 | 2.92E-03 | 2.95E-03 | 0.00E+00                         | 9.17E-05          | 2.25E-03         | 4.65E-04          | 0.00E+00                |
| Iowa    | Carroll County       | 19027 | R                    | 2.43E-03                                                                | 2.66E-03 | 3.32E-03 | 4.15E-03 | 1.23E-02 | 1.83E-02 | 2.31E-02 | 2.31E-02 | 0.00E+00                         | 2.62E-04          | 1.09E-02         | 1.14E-03          | 0.00E+00                |
| Iowa    | Cass County          | 19029 | R                    | 1.58E-03                                                                | 1.60E-03 | 1.66E-03 | 1.97E-03 | 6.15E-03 | 1.03E-02 | 1.04E-02 | 1.04E-02 | 0.00E+00                         | 2.23E-04          | 5.26E-03         | 6.74E-04          | 0.00E+00                |
| Iowa    | Cedar County         | 19031 | R                    | 3.51E-03                                                                | 3.87E-03 | 4.95E-03 | 5.27E-03 | 5.67E-03 | 5.57E-03 | 7.84E-03 | 8.60E-03 | 1.19E-03                         | 3.70E-04          | 3.13E-03         | 9.80E-04          | 0.00E+00                |
| Iowa    | Cerro Gordo County   | 19033 | U                    | 2.93E-03                                                                | 3.80E-03 | 6.46E-03 | 1.14E-02 | 1.61E-02 | 2.18E-02 | 3.03E-02 | 3.05E-02 | 0.00E+00                         | 2.66E-03          | 8.33E-03         | 5.06E-03          | 0.00E+00                |
| Iowa    | Cherokee County      | 19035 | R                    | 1.81E-03                                                                | 1.81E-03 | 1.84E-03 | 1.92E-03 | 3.67E-03 | 2.92E-03 | 4.62E-03 | 5.19E-03 | 0.00E+00                         | 3.62E-04          | 2.94E-03         | 3.71E-04          | 0.00E+00                |

| State | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Iowa  | Chickasaw County  | 19037 | R                    | 2.59E-03                                                                | 2.60E-03 | 2.63E-03 | 3.34E-03 | 4.89E-03 | 5.41E-03 | 7.85E-03 | 8.67E-03 | 0.00E+00                         | 3.79E-04          | 4.01E-03         | 4.99E-04          | 0.00E+00                |
| Iowa  | Clarke County     | 19039 | U                    | 1.87E-03                                                                | 1.93E-03 | 2.10E-03 | 2.39E-03 | 8.00E-03 | 8.01E-03 | 1.14E-02 | 1.25E-02 | 0.00E+00                         | 3.55E-03          | 3.43E-03         | 1.03E-03          | 0.00E+00                |
| Iowa  | Clay County       | 19041 | U                    | 3.39E-03                                                                | 3.40E-03 | 3.44E-03 | 1.18E-02 | 1.42E-02 | 2.01E-02 | 2.02E-02 | 2.02E-02 | 0.00E+00                         | 3.91E-04          | 7.51E-03         | 6.26E-03          | 0.00E+00                |
| Iowa  | Clayton County    | 19043 | R                    | 3.17E-03                                                                | 3.29E-03 | 3.59E-03 | 4.30E-03 | 4.95E-03 | 5.08E-03 | 7.78E-03 | 9.08E-03 | 4.08E-07                         | 1.94E-03          | 2.59E-03         | 4.28E-04          | 0.00E+00                |
| Iowa  | Clinton County    | 19045 | U                    | 4.02E-03                                                                | 4.51E-03 | 6.37E-03 | 2.01E-02 | 1.99E-02 | 2.59E-02 | 3.78E-02 | 3.90E-02 | 2.96E-03                         | 1.36E-03          | 1.07E-02         | 4.82E-03          | 0.00E+00                |
| Iowa  | Crawford County   | 19047 | R                    | 1.74E-03                                                                | 1.75E-03 | 1.81E-03 | 1.96E-03 | 3.21E-03 | 2.08E-03 | 3.83E-03 | 4.42E-03 | 0.00E+00                         | 2.52E-04          | 2.64E-03         | 3.11E-04          | 0.00E+00                |
| Iowa  | Dallas County     | 19049 | U                    | 4.15E-03                                                                | 4.45E-03 | 5.57E-03 | 7.69E-03 | 1.38E-02 | 1.86E-02 | 2.96E-02 | 2.96E-02 | 0.00E+00                         | 6.81E-04          | 8.61E-03         | 4.46E-03          | 0.00E+00                |
| Iowa  | Davis County      | 19051 | R                    | 3.10E-03                                                                | 3.10E-03 | 3.11E-03 | 3.12E-03 | 3.12E-03 | 3.13E-03 | 3.13E-03 | 3.14E-03 | 0.00E+00                         | 1.08E-03          | 1.68E-03         | 3.56E-04          | 0.00E+00                |
| Iowa  | Decatur County    | 19053 | R                    | 3.42E-03                                                                | 3.84E-03 | 5.11E-03 | 7.22E-03 | 5.41E-03 | 7.28E-03 | 7.32E-03 | 7.33E-03 | 0.00E+00                         | 2.10E-03          | 2.91E-03         | 4.04E-04          | 0.00E+00                |
| Iowa  | Delaware County   | 19055 | R                    | 3.03E-03                                                                | 3.06E-03 | 3.16E-03 | 3.25E-03 | 6.17E-03 | 5.84E-03 | 1.04E-02 | 1.20E-02 | 2.67E-06                         | 7.63E-04          | 4.74E-03         | 6.59E-04          | 0.00E+00                |
| Iowa  | Des Moines County | 19057 | U                    | 4.28E-03                                                                | 4.74E-03 | 1.44E-02 | 1.89E-02 | 1.83E-02 | 2.38E-02 | 2.97E-02 | 3.05E-02 | 2.92E-05                         | 2.77E-03          | 9.85E-03         | 5.70E-03          | 0.00E+00                |
| Iowa  | Dickinson County  | 19059 | R                    | 4.11E-02                                                                | 4.14E-02 | 4.21E-02 | 7.03E-02 | 6.69E-02 | 7.64E-02 | 8.70E-02 | 9.36E-02 | 0.00E+00                         | 3.37E-03          | 5.92E-03         | 5.76E-02          | 0.00E+00                |
| Iowa  | Dubuque County    | 19061 | U                    | 6.19E-03                                                                | 7.99E-03 | 2.09E-02 | 3.55E-02 | 3.69E-02 | 5.39E-02 | 6.95E-02 | 7.61E-02 | 4.41E-07                         | 3.19E-03          | 2.60E-02         | 7.73E-03          | 0.00E+00                |
| Iowa  | Emmet County      | 19063 | U                    | 2.89E-03                                                                | 3.22E-03 | 4.20E-03 | 1.94E-02 | 2.26E-02 | 3.48E-02 | 3.61E-02 | 3.65E-02 | 0.00E+00                         | 1.06E-02          | 6.23E-03         | 5.72E-03          | 0.00E+00                |
| Iowa  | Fayette County    | 19065 | R                    | 3.32E-03                                                                | 3.37E-03 | 3.52E-03 | 3.84E-03 | 9.33E-03 | 1.63E-02 | 1.67E-02 | 1.70E-02 | 2.57E-07                         | 1.92E-03          | 6.75E-03         | 6.55E-04          | 0.00E+00                |
| Iowa  | Floyd County      | 19067 | R                    | 3.03E-03                                                                | 3.10E-03 | 3.33E-03 | 4.39E-03 | 8.04E-03 | 1.29E-02 | 1.29E-02 | 1.29E-02 | 0.00E+00                         | 6.00E-04          | 6.72E-03         | 7.20E-04          | 0.00E+00                |
| Iowa  | Franklin County   | 19069 | R                    | 2.38E-03                                                                | 3.10E-03 | 5.26E-03 | 8.86E-03 | 7.29E-03 | 9.28E-03 | 9.54E-03 | 9.62E-03 | 0.00E+00                         | 3.45E-03          | 3.27E-03         | 5.62E-04          | 0.00E+00                |
| Iowa  | Fremont County    | 19071 | R                    | 1.95E-03                                                                | 2.03E-03 | 2.25E-03 | 2.61E-03 | 2.51E-03 | 2.81E-03 | 2.93E-03 | 2.97E-03 | 2.66E-07                         | 3.76E-04          | 1.75E-03         | 3.79E-04          | 0.00E+00                |
| Iowa  | Greene County     | 19073 | R                    | 1.89E-03                                                                | 1.90E-03 | 1.95E-03 | 2.82E-03 | 3.04E-03 | 3.68E-03 | 3.69E-03 | 3.70E-03 | 0.00E+00                         | 3.77E-04          | 2.07E-03         | 5.96E-04          | 0.00E+00                |
| Iowa  | Grundy County     | 19075 | R                    | 3.08E-03                                                                | 3.14E-03 | 3.33E-03 | 3.60E-03 | 4.03E-03 | 4.34E-03 | 5.35E-03 | 5.69E-03 | 0.00E+00                         | 1.23E-04          | 3.37E-03         | 5.35E-04          | 0.00E+00                |
| Iowa  | Guthrie County    | 19077 | R                    | 2.55E-03                                                                | 2.59E-03 | 2.70E-03 | 2.90E-03 | 2.93E-03 | 3.06E-03 | 3.16E-03 | 3.19E-03 | 0.00E+00                         | 4.49E-04          | 1.93E-03         | 5.49E-04          | 0.00E+00                |
| Iowa  | Hamilton County   | 19079 | R                    | 2.56E-03                                                                | 2.61E-03 | 2.73E-03 | 2.74E-03 | 8.28E-03 | 1.37E-02 | 1.38E-02 | 1.38E-02 | 0.00E+00                         | 1.08E-03          | 6.24E-03         | 9.70E-04          | 0.00E+00                |
| Iowa  | Hancock County    | 19081 | R                    | 2.21E-03                                                                | 2.47E-03 | 3.23E-03 | 3.89E-03 | 3.58E-03 | 4.17E-03 | 4.23E-03 | 4.25E-03 | 0.00E+00                         | 5.80E-04          | 2.53E-03         | 4.75E-04          | 0.00E+00                |
| Iowa  | Hardin County     | 19083 | R                    | 3.05E-03                                                                | 3.07E-03 | 3.24E-03 | 5.01E-03 | 4.98E-03 | 6.43E-03 | 6.82E-03 | 7.01E-03 | 0.00E+00                         | 8.43E-04          | 3.40E-03         | 7.40E-04          | 0.00E+00                |
| Iowa  | Harrison County   | 19085 | R                    | 3.12E-03                                                                | 3.38E-03 | 4.17E-03 | 5.61E-03 | 6.90E-03 | 6.37E-03 | 1.11E-02 | 1.26E-02 | 2.72E-10                         | 1.29E-03          | 4.71E-03         | 9.01E-04          | 0.00E+00                |
| Iowa  | Henry County      | 19087 | R                    | 3.70E-03                                                                | 3.84E-03 | 4.26E-03 | 5.49E-03 | 1.26E-02 | 2.22E-02 | 2.24E-02 | 2.24E-02 | 1.47E-05                         | 2.78E-03          | 8.86E-03         | 9.36E-04          | 0.00E+00                |
| Iowa  | Howard County     | 19089 | R                    | 1.79E-03                                                                | 1.81E-03 | 1.87E-03 | 1.98E-03 | 3.90E-03 | 4.53E-03 | 6.07E-03 | 6.58E-03 | 0.00E+00                         | 1.12E-03          | 2.46E-03         | 3.24E-04          | 0.00E+00                |
| Iowa  | Humboldt County   | 19091 | R                    | 2.23E-03                                                                | 2.24E-03 | 2.30E-03 | 8.12E-03 | 8.42E-03 | 1.39E-02 | 1.40E-02 | 1.40E-02 | 0.00E+00                         | 3.61E-04          | 6.84E-03         | 1.22E-03          | 0.00E+00                |
| Iowa  | Ida County        | 19093 | R                    | 2.89E-03                                                                | 3.32E-03 | 4.63E-03 | 6.80E-03 | 5.30E-03 | 6.80E-03 | 6.81E-03 | 6.81E-03 | 0.00E+00                         | 1.57E-03          | 3.31E-03         | 4.19E-04          | 0.00E+00                |
| Iowa  | Iowa County       | 19095 | R                    | 2.61E-03                                                                | 2.69E-03 | 2.92E-03 | 3.17E-03 | 3.20E-03 | 3.46E-03 | 3.74E-03 | 3.84E-03 | 3.34E-06                         | 4.28E-04          | 2.19E-03         | 5.78E-04          | 0.00E+00                |
| Iowa  | Jackson County    | 19097 | R                    | 4.46E-03                                                                | 4.72E-03 | 5.28E-03 | 6.38E-03 | 1.10E-02 | 1.79E-02 | 2.22E-02 | 2.26E-02 | 1.42E-04                         | 3.75E-03          | 6.30E-03         | 8.14E-04          | 0.00E+00                |
| Iowa  | Jasper County     | 19099 | R                    | 3.12E-03                                                                | 3.66E-03 | 3.95E-03 | 7.11E-03 | 1.18E-02 | 1.61E-02 | 2.07E-02 | 2.57E-02 | 0.00E+00                         | 7.75E-04          | 9.82E-03         | 1.25E-03          | 0.00E+00                |
| Iowa  | Jefferson County  | 19101 | U                    | 3.92E-03                                                                | 4.02E-03 | 4.33E-03 | 1.27E-02 | 1.50E-02 | 2.09E-02 | 2.10E-02 | 2.10E-02 | 1.23E-07                         | 4.94E-03          | 6.56E-03         | 3.51E-03          | 0.00E+00                |
| Iowa  | Johnson County    | 19103 | U                    | 1.28E-02                                                                | 1.57E-02 | 3.01E-02 | 4.77E-02 | 4.71E-02 | 6.25E-02 | 9.03E-02 | 9.36E-02 | 1.49E-04                         | 1.85E-03          | 2.93E-02         | 1.59E-02          | 0.00E+00                |
| Iowa  | Jones County      | 19105 | R                    | 3.21E-03                                                                | 3.31E-03 | 3.94E-03 | 7.91E-03 | 8.12E-03 | 1.08E-02 | 1.30E-02 | 1.41E-02 | 4.45E-04                         | 1.98E-03          | 4.88E-03         | 8.03E-04          | 0.00E+00                |
| Iowa  | Keokuk County     | 19107 | R                    | 2.07E-03                                                                | 2.09E-03 | 2.13E-03 | 2.25E-03 | 2.76E-03 | 2.88E-03 | 3.82E-03 | 4.14E-03 | 1.01E-06                         | 4.62E-04          | 1.84E-03         | 4.59E-04          | 0.00E+00                |
| Iowa  | Kossuth County    | 19109 | R                    | 1.71E-03                                                                | 1.77E-03 | 2.17E-03 | 3.18E-03 | 7.71E-03 | 1.40E-02 | 1.76E-02 | 1.76E-02 | 0.00E+00                         | 1.71E-03          | 5.34E-03         | 6.62E-04          | 0.00E+00                |
| Iowa  | Lee County        | 19111 | U                    | 4.14E-03                                                                | 4.51E-03 | 6.85E-03 | 1.90E-02 | 2.10E-02 | 3.32E-02 | 3.81E-02 | 3.86E-02 | 2.09E-06                         | 6.64E-03          | 1.08E-02         | 3.52E-03          | 0.00E+00                |
| Iowa  | Linn County       | 19113 | U                    | 1.58E-02                                                                | 1.82E-02 | 3.35E-02 | 5.60E-02 | 5.27E-02 | 6.91E-02 | 8.55E-02 | 9.68E-02 | 5.69E-04                         | 9.09E-03          | 3.38E-02         | 9.24E-03          | 0.00E+00                |
| Iowa  | Louisa County     | 19115 | R                    | 4.62E-03                                                                | 4.74E-03 | 5.12E-03 | 5.74E-03 | 5.52E-03 | 6.00E-03 | 6.16E-03 | 6.22E-03 | 6.19E-04                         | 6.67E-04          | 3.31E-03         | 9.18E-04          | 0.00E+00                |
| Iowa  | Lucas County      | 19117 | R                    | 2.33E-03                                                                | 2.49E-03 | 2.96E-03 | 1.07E-02 | 1.09E-02 | 1.81E-02 | 1.81E-02 | 1.81E-02 | 0.00E+00                         | 6.00E-03          | 4.26E-03         | 5.93E-04          | 0.00E+00                |
| Iowa  | Lyon County       | 19119 | R                    | 2.68E-03                                                                | 2.69E-03 | 2.72E-03 | 2.77E-03 | 2.86E-03 | 2.97E-03 | 3.09E-03 | 3.13E-03 | 0.00E+00                         | 4.24E-04          | 1.96E-03         | 4.80E-04          | 0.00E+00                |
| Iowa  | Madison County    | 19121 | R                    | 3.31E-03                                                                | 3.90E-03 | 5.66E-03 | 8.60E-03 | 1.15E-02 | 1.51E-02 | 1.91E-02 | 2.04E-02 | 0.00E+00                         | 4.43E-03          | 5.59E-03         | 1.49E-03          | 0.00E+00                |
| Iowa  | Mahaska County    | 19123 | R                    | 2.65E-03                                                                | 3.04E-03 | 3.62E-03 | 1.63E-02 | 1.19E-02 | 1.89E-02 | 2.20E-02 | 2.36E-02 | 0.00E+00                         | 2.69E-03          | 8.39E-03         | 8.26E-04          | 0.00E+00                |
| Iowa  | Marion County     | 19125 | U                    | 3.47E-03                                                                | 3.68E-03 | 5.09E-03 | 1.64E-02 | 1.91E-02 | 2.66E-02 | 3.58E-02 | 3.59E-02 | 0.00E+00                         | 6.02E-03          | 9.50E-03         | 3.54E-03          | 0.00E+00                |
| Iowa  | Marshall County   | 19127 | U                    | 4.17E-03                                                                | 4.81E-03 | 7.47E-03 | 2.66E-02 | 2.48E-02 | 3.23E-02 | 4.54E-02 | 4.68E-02 | 6.80E-08                         | 4.38E-03          | 1.43E-02         | 6.17E-03          | 0.00E+00                |
| Iowa  | Mills County      | 19129 | R                    | 5.11E-04                                                                | 1.02E-03 | 2.56E-03 | 9.29E-03 | 1.23E-02 | 1.53E-02 | 1.55E-02 | 1.56E-02 | 0.00E+00                         | 1.42E-03          | 9.49E-03         | 1.38E-03          | 0.00E+00                |
| Iowa  | Mitchell County   | 19131 | R                    | 2.70E-03                                                                | 2.72E-03 | 2.78E-03 | 2.88E-03 | 5.23E-03 | 6.47E-03 | 8.62E-03 | 9.34E-03 | 0.00E+00                         | 1.44E-03          | 3.34E-03         | 4.53E-04          | 0.00E+00                |
| Iowa  | Monona County     | 19133 | R                    | 2.06E-03                                                                | 2.13E-03 | 2.36E-03 | 2.56E-03 | 4.09E-03 | 4.02E-03 | 6.52E-03 | 7.36E-03 | 0.00E+00                         | 1.13E-03          | 2.58E-03         | 3.73E-04          | 0.00E+00                |
| Iowa  | Monroe County     | 19135 | R                    | 2.73E-03                                                                | 2.90E-03 | 3.44E-03 | 4.33E-03 | 4.31E-03 | 4.92E-03 | 5.27E-03 | 5.39E-03 | 0.00E+00                         | 1.88E-03          | 1.97E-03         | 4.51E-04          | 0.00E+00                |
| Iowa  | Montgomery County | 19137 | U                    | 1.60E-03                                                                | 1.64E-03 | 1.78E-03 | 9.39E-03 | 9.79E-03 | 1.70E-02 | 1.70E-02 | 1.70E-02 | 0.00E+00                         | 1.02E-03          | 5.99E-03         | 2.78E-03          | 0.00E+00                |
| Iowa  | Muscatine County  | 19139 | U                    | 5.74E-03                                                                | 6.62E-03 | 1.06E-02 | 2.36E-02 | 2.18E-02 | 3.04E-02 | 3.68E-02 | 4.14E-02 | 3.04E-03                         | 1.60E-03          | 1.19E-02         | 5.24E-03          | 0.00E+00                |

| State  | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|--------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|        |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|        |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Iowa   | O'Brien County       | 19141 | R                    | 2.36E-03                                                                | 2.53E-03 | 3.04E-03 | 3.39E-03 | 5.38E-03 | 5.17E-03 | 8.25E-03 | 9.28E-03 | 0.00E+00                         | 7.26E-05          | 4.35E-03         | 9.51E-04          | 0.00E+00                |
| Iowa   | Osceola County       | 19143 | R                    | 3.27E-03                                                                | 3.35E-03 | 3.58E-03 | 3.97E-03 | 4.00E-03 | 4.36E-03 | 4.60E-03 | 4.67E-03 | 0.00E+00                         | 1.48E-03          | 1.60E-03         | 9.16E-04          | 0.00E+00                |
| Iowa   | Page County          | 19145 | U                    | 2.04E-03                                                                | 2.07E-03 | 4.41E-03 | 1.13E-02 | 9.28E-03 | 1.41E-02 | 1.50E-02 | 1.50E-02 | 1.33E-08                         | 9.36E-04          | 5.57E-03         | 2.77E-03          | 0.00E+00                |
| Iowa   | Palo Alto County     | 19147 | R                    | 1.76E-03                                                                | 1.92E-03 | 2.39E-03 | 3.39E-03 | 4.04E-03 | 4.66E-03 | 5.62E-03 | 5.95E-03 | 0.00E+00                         | 2.65E-04          | 2.85E-03         | 9.31E-04          | 0.00E+00                |
| Iowa   | Plymouth County      | 19149 | R                    | 2.17E-03                                                                | 2.22E-03 | 2.40E-03 | 3.97E-03 | 6.49E-03 | 1.01E-02 | 1.18E-02 | 1.18E-02 | 0.00E+00                         | 5.85E-05          | 5.70E-03         | 7.30E-04          | 0.00E+00                |
| Iowa   | Pocahontas County    | 19151 | R                    | 2.18E-03                                                                | 2.19E-03 | 2.21E-03 | 2.24E-03 | 2.22E-03 | 2.25E-03 | 2.25E-03 | 2.26E-03 | 0.00E+00                         | 1.94E-05          | 1.87E-03         | 3.26E-04          | 0.00E+00                |
| Iowa   | Polk County          | 19153 | U                    | 2.55E-02                                                                | 3.67E-02 | 6.22E-02 | 7.54E-02 | 7.37E-02 | 8.84E-02 | 9.80E-02 | 1.05E-01 | 0.00E+00                         | 5.00E-04          | 5.21E-02         | 2.12E-02          | 0.00E+00                |
| Iowa   | Pottawattamie County | 19155 | U                    | 6.02E-03                                                                | 1.15E-02 | 2.55E-02 | 4.57E-02 | 3.77E-02 | 5.13E-02 | 6.70E-02 | 7.45E-02 | 1.65E-08                         | 1.03E-03          | 2.64E-02         | 1.03E-02          | 0.00E+00                |
| Iowa   | Poweshiek County     | 19157 | R                    | 1.95E-03                                                                | 1.99E-03 | 2.09E-03 | 2.13E-03 | 6.13E-03 | 1.05E-02 | 1.05E-02 | 1.05E-02 | 2.58E-07                         | 5.00E-04          | 5.07E-03         | 5.59E-04          | 0.00E+00                |
| Iowa   | Ringgold County      | 19159 | R                    | 3.10E-03                                                                | 3.10E-03 | 3.11E-03 | 3.12E-03 | 3.12E-03 | 3.12E-03 | 3.13E-03 | 3.13E-03 | 4.89E-08                         | 9.23E-04          | 1.90E-03         | 3.00E-04          | 0.00E+00                |
| Iowa   | Sac County           | 19161 | R                    | 2.72E-03                                                                | 2.73E-03 | 2.76E-03 | 2.82E-03 | 3.28E-03 | 3.35E-03 | 4.22E-03 | 4.51E-03 | 0.00E+00                         | 1.94E-04          | 2.68E-03         | 4.06E-04          | 0.00E+00                |
| Iowa   | Scott County         | 19163 | U                    | 2.17E-02                                                                | 3.40E-02 | 4.63E-02 | 6.60E-02 | 6.06E-02 | 8.60E-02 | 1.02E-01 | 1.15E-01 | 1.49E-04                         | 7.98E-04          | 4.46E-02         | 1.50E-02          | 0.00E+00                |
| Iowa   | Shelby County        | 19165 | R                    | 1.74E-03                                                                | 1.78E-03 | 1.91E-03 | 4.40E-03 | 4.05E-03 | 6.83E-03 | 6.85E-03 | 6.85E-03 | 0.00E+00                         | 1.27E-04          | 3.23E-03         | 6.99E-04          | 0.00E+00                |
| Iowa   | Sioux County         | 19167 | R                    | 3.26E-03                                                                | 3.35E-03 | 3.70E-03 | 4.03E-03 | 6.55E-03 | 7.65E-03 | 1.19E-02 | 1.26E-02 | 0.00E+00                         | 1.41E-04          | 5.38E-03         | 1.03E-03          | 0.00E+00                |
| Iowa   | Story County         | 19169 | U                    | 6.88E-03                                                                | 8.38E-03 | 1.28E-02 | 2.67E-02 | 2.62E-02 | 3.41E-02 | 4.18E-02 | 5.15E-02 | 0.00E+00                         | 1.25E-03          | 1.33E-02         | 1.17E-02          | 0.00E+00                |
| Iowa   | Tama County          | 19171 | R                    | 2.87E-03                                                                | 2.96E-03 | 3.31E-03 | 3.81E-03 | 6.72E-03 | 1.08E-02 | 1.32E-02 | 1.32E-02 | 3.91E-07                         | 1.60E-03          | 4.44E-03         | 6.77E-04          | 0.00E+00                |
| Iowa   | Taylor County        | 19173 | R                    | 1.50E-03                                                                | 1.57E-03 | 1.77E-03 | 2.11E-03 | 1.97E-03 | 2.27E-03 | 2.37E-03 | 2.40E-03 | 1.99E-07                         | 5.26E-04          | 1.22E-03         | 2.26E-04          | 0.00E+00                |
| Iowa   | Union County         | 19175 | U                    | 1.72E-03                                                                | 1.79E-03 | 2.00E-03 | 7.96E-03 | 9.53E-03 | 1.38E-02 | 1.39E-02 | 1.39E-02 | 0.00E+00                         | 6.86E-04          | 6.19E-03         | 2.65E-03          | 0.00E+00                |
| Iowa   | Van Buren County     | 19177 | R                    | 4.55E-03                                                                | 4.55E-03 | 4.56E-03 | 4.59E-03 | 4.59E-03 | 4.61E-03 | 4.62E-03 | 4.63E-03 | 0.00E+00                         | 1.85E-03          | 2.34E-03         | 3.96E-04          | 0.00E+00                |
| Iowa   | Wapello County       | 19179 | U                    | 3.84E-03                                                                | 4.34E-03 | 8.80E-03 | 1.77E-02 | 1.58E-02 | 2.19E-02 | 2.42E-02 | 2.79E-02 | 1.54E-08                         | 3.57E-03          | 8.56E-03         | 3.62E-03          | 0.00E+00                |
| Iowa   | Warren County        | 19181 | U                    | 9.30E-03                                                                | 1.02E-02 | 1.37E-02 | 2.22E-02 | 2.56E-02 | 3.20E-02 | 4.84E-02 | 5.40E-02 | 0.00E+00                         | 2.28E-03          | 1.69E-02         | 6.39E-03          | 0.00E+00                |
| Iowa   | Washington County    | 19183 | R                    | 3.01E-03                                                                | 3.25E-03 | 3.97E-03 | 4.55E-03 | 1.04E-02 | 2.19E-02 | 2.20E-02 | 2.21E-02 | 2.07E-05                         | 2.55E-03          | 6.69E-03         | 1.18E-03          | 0.00E+00                |
| Iowa   | Wayne County         | 19185 | R                    | 2.07E-03                                                                | 2.14E-03 | 2.37E-03 | 2.74E-03 | 2.55E-03 | 2.77E-03 | 2.78E-03 | 2.79E-03 | 0.00E+00                         | 6.75E-04          | 1.63E-03         | 2.47E-04          | 0.00E+00                |
| Iowa   | Webster County       | 19187 | U                    | 3.96E-03                                                                | 4.28E-03 | 5.33E-03 | 2.05E-02 | 2.26E-02 | 3.10E-02 | 4.46E-02 | 5.27E-02 | 0.00E+00                         | 1.56E-03          | 1.39E-02         | 7.09E-03          | 0.00E+00                |
| Iowa   | Winnebago County     | 19189 | R                    | 2.43E-03                                                                | 2.49E-03 | 2.68E-03 | 2.99E-03 | 7.61E-03 | 9.77E-03 | 1.38E-02 | 1.52E-02 | 0.00E+00                         | 4.15E-03          | 3.14E-03         | 3.17E-04          | 0.00E+00                |
| Iowa   | Winneshiek County    | 19191 | R                    | 3.08E-03                                                                | 3.13E-03 | 3.31E-03 | 3.53E-03 | 1.06E-02 | 1.99E-02 | 2.00E-02 | 2.00E-02 | 0.00E+00                         | 4.73E-03          | 5.15E-03         | 6.94E-04          | 0.00E+00                |
| Iowa   | Woodbury County      | 19193 | U                    | 5.16E-03                                                                | 5.74E-03 | 1.97E-02 | 3.53E-02 | 3.35E-02 | 4.78E-02 | 5.50E-02 | 6.09E-02 | 0.00E+00                         | 6.24E-04          | 2.48E-02         | 8.02E-03          | 0.00E+00                |
| Iowa   | Worth County         | 19195 | R                    | 2.64E-03                                                                | 2.67E-03 | 2.75E-03 | 2.90E-03 | 2.92E-03 | 3.12E-03 | 3.25E-03 | 3.29E-03 | 0.00E+00                         | 1.04E-03          | 1.51E-03         | 3.75E-04          | 0.00E+00                |
| Iowa   | Wright County        | 19197 | R                    | 1.38E-03                                                                | 1.46E-03 | 1.73E-03 | 2.47E-03 | 3.28E-03 | 5.70E-03 | 5.75E-03 | 5.77E-03 | 0.00E+00                         | 6.63E-05          | 2.72E-03         | 5.02E-04          | 0.00E+00                |
| Kansas | Statewide            | 20000 | -                    | 6.50E-04                                                                | 1.14E-03 | 4.33E-03 | 2.14E-02 | 3.30E-02 | 5.61E-02 | 7.15E-02 | 8.02E-02 | 2.84E-06                         | 1.19E-03          | 2.50E-02         | 6.81E-03          | 0.00E+00                |
| Kansas | State Urban Counties | 20000 | U                    | 2.11E-03                                                                | 4.25E-03 | 1.46E-02 | 4.04E-02 | 3.98E-02 | 6.15E-02 | 7.59E-02 | 8.31E-02 | 2.00E-06                         | 1.26E-03          | 3.02E-02         | 8.33E-03          | 0.00E+00                |
| Kansas | State Rural Counties | 20000 | R                    | 3.59E-04                                                                | 5.12E-04 | 8.83E-04 | 2.17E-03 | 4.94E-03 | 5.22E-03 | 1.07E-02 | 1.37E-02 | 6.30E-06                         | 8.91E-04          | 3.50E-03         | 5.44E-04          | 0.00E+00                |
| Kansas | Allen County         | 20001 | R                    | 2.67E-03                                                                | 2.83E-03 | 3.31E-03 | 5.29E-03 | 8.61E-03 | 1.38E-02 | 1.38E-02 | 1.38E-02 | 0.00E+00                         | 7.85E-04          | 7.19E-03         | 6.36E-04          | 0.00E+00                |
| Kansas | Anderson County      | 20003 | R                    | 1.68E-03                                                                | 1.78E-03 | 2.08E-03 | 2.58E-03 | 2.80E-03 | 3.08E-03 | 3.38E-03 | 3.48E-03 | 0.00E+00                         | 7.38E-04          | 1.70E-03         | 3.68E-04          | 0.00E+00                |
| Kansas | Atchison County      | 20005 | U                    | 5.85E-03                                                                | 7.61E-03 | 1.29E-02 | 1.61E-02 | 1.47E-02 | 1.87E-02 | 2.27E-02 | 2.41E-02 | 1.21E-06                         | 4.86E-03          | 7.69E-03         | 2.18E-03          | 0.00E+00                |
| Kansas | Barber County        | 20007 | R                    | 5.47E-04                                                                | 5.64E-04 | 6.17E-04 | 7.04E-04 | 7.59E-04 | 7.92E-04 | 8.44E-04 | 8.62E-04 | 0.00E+00                         | 8.32E-05          | 5.94E-04         | 8.23E-05          | 0.00E+00                |
| Kansas | Barton County        | 20009 | U                    | 2.56E-03                                                                | 3.61E-03 | 4.66E-03 | 1.83E-02 | 1.71E-02 | 2.31E-02 | 2.63E-02 | 2.94E-02 | 3.62E-14                         | 2.12E-03          | 9.11E-03         | 5.83E-03          | 0.00E+00                |
| Kansas | Bourbon County       | 20011 | U                    | 2.68E-03                                                                | 2.77E-03 | 3.02E-03 | 7.34E-03 | 8.18E-03 | 9.08E-03 | 1.37E-02 | 1.52E-02 | 0.00E+00                         | 2.23E-03          | 4.68E-03         | 1.27E-03          | 0.00E+00                |
| Kansas | Brown County         | 20013 | R                    | 2.35E-03                                                                | 2.36E-03 | 2.36E-03 | 2.36E-03 | 3.65E-03 | 4.14E-03 | 5.20E-03 | 5.56E-03 | 1.06E-04                         | 3.77E-04          | 2.79E-03         | 3.78E-04          | 0.00E+00                |
| Kansas | Butler County        | 20015 | U                    | 3.34E-03                                                                | 4.72E-03 | 7.13E-03 | 9.21E-03 | 1.12E-02 | 1.69E-02 | 2.00E-02 | 2.80E-02 | 6.80E-05                         | 6.82E-04          | 8.34E-03         | 2.08E-03          | 0.00E+00                |
| Kansas | Chase County         | 20017 | R                    | 8.85E-04                                                                | 8.85E-04 | 8.85E-04 | 8.85E-04 | 8.85E-04 | 8.85E-04 | 8.85E-04 | 8.85E-04 | 8.26E-09                         | 1.20E-04          | 5.93E-04         | 1.72E-04          | 0.00E+00                |
| Kansas | Chautauqua County    | 20019 | R                    | 2.06E-03                                                                | 2.06E-03 | 2.06E-03 | 2.06E-03 | 2.06E-03 | 2.06E-03 | 2.06E-03 | 2.06E-03 | 4.67E-08                         | 1.07E-03          | 8.67E-04         | 1.27E-04          | 0.00E+00                |
| Kansas | Cherokee County      | 20021 | R                    | 3.40E-03                                                                | 3.51E-03 | 4.21E-03 | 6.06E-03 | 8.95E-03 | 1.13E-02 | 1.46E-02 | 1.54E-02 | 0.00E+00                         | 2.29E-03          | 5.89E-03         | 7.71E-04          | 0.00E+00                |
| Kansas | Cheyenne County      | 20023 | R                    | 4.15E-04                                                                | 4.15E-04 | 4.16E-04 | 4.16E-04 | 4.17E-04 | 4.17E-04 | 4.17E-04 | 4.17E-04 | 0.00E+00                         | 4.14E-05          | 3.17E-04         | 5.88E-05          | 0.00E+00                |
| Kansas | Clark County         | 20025 | R                    | 3.52E-04                                                                | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 0.00E+00                         | 3.69E-05          | 1.96E-04         | 1.19E-04          | 0.00E+00                |
| Kansas | Clay County          | 20027 | U                    | 4.58E-03                                                                | 4.90E-03 | 5.86E-03 | 7.46E-03 | 7.68E-03 | 9.07E-03 | 1.00E-02 | 1.04E-02 | 0.00E+00                         | 2.09E-03          | 3.81E-03         | 1.79E-03          | 0.00E+00                |
| Kansas | Cloud County         | 20029 | U                    | 1.04E-03                                                                | 1.06E-03 | 1.12E-03 | 8.34E-03 | 9.66E-03 | 1.55E-02 | 1.56E-02 | 1.56E-02 | 0.00E+00                         | 4.28E-03          | 3.46E-03         | 1.92E-03          | 0.00E+00                |
| Kansas | Coffey County        | 20031 | R                    | 1.56E-03                                                                | 1.56E-03 | 1.56E-03 | 1.56E-03 | 3.66E-03 | 4.48E-03 | 6.23E-03 | 6.82E-03 | 0.00E+00                         | 1.17E-03          | 2.06E-03         | 4.33E-04          | 0.00E+00                |
| Kansas | Comanche County      | 20033 | R                    | 3.23E-04                                                                | 3.23E-04 | 3.23E-04 | 3.23E-04 | 3.23E-04 | 3.23E-04 | 3.23E-04 | 3.23E-04 | 0.00E+00                         | 3.69E-06          | 2.76E-04         | 4.29E-05          | 0.00E+00                |
| Kansas | Cowley County        | 20035 | U                    | 2.74E-03                                                                | 4.35E-03 | 7.62E-03 | 1.53E-02 | 1.45E-02 | 1.95E-02 | 2.58E-02 | 2.84E-02 | 2.08E-06                         | 3.34E-03          | 8.29E-03         | 2.83E-03          | 0.00E+00                |
| Kansas | Crawford County      | 20037 | U                    | 3.55E-03                                                                | 4.42E-03 | 5.34E-03 | 8.26E-03 | 1.03E-02 | 1.77E-02 | 2.17E-02 | 2.33E-02 | 0.00E+00                         | 8.89E-04          | 7.32E-03         | 2.09E-03          | 0.00E+00                |
| Kansas | Decatur County       | 20039 | R                    | 6.81E-04                                                                | 8.06E-04 | 1.18E-03 | 1.81E-03 | 2.02E-03 | 2.43E-03 | 2.81E-03 | 2.93E-03 | 0.00E+00                         | 5.74E-04          | 1.31E-03         | 1.34E-04          | 0.00E+00                |

| State  | County             | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|--------|--------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|        |                    |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|        |                    |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Kansas | Dickinson County   | 20041 | R                    | 2.39E-03                                                                | 2.71E-03 | 3.37E-03 | 5.03E-03 | 8.71E-03 | 1.41E-02 | 1.68E-02 | 1.68E-02 | 1.54E-10                         | 2.18E-03          | 5.76E-03         | 7.75E-04          | 0.00E+00                |
| Kansas | Doniphan County    | 20043 | R                    | 3.14E-03                                                                | 3.17E-03 | 3.26E-03 | 3.41E-03 | 5.19E-03 | 5.73E-03 | 7.12E-03 | 7.58E-03 | 2.27E-04                         | 8.74E-04          | 3.36E-03         | 7.29E-04          | 0.00E+00                |
| Kansas | Douglas County     | 20045 | U                    | 1.36E-02                                                                | 1.44E-02 | 2.56E-02 | 5.34E-02 | 5.39E-02 | 6.49E-02 | 6.97E-02 | 9.10E-02 | 0.00E+00                         | 2.83E-03          | 3.39E-02         | 1.72E-02          | 0.00E+00                |
| Kansas | Edwards County     | 20047 | R                    | 1.41E-03                                                                | 1.98E-03 | 3.69E-03 | 6.54E-03 | 6.78E-03 | 9.40E-03 | 1.11E-02 | 1.17E-02 | 0.00E+00                         | 4.90E-03          | 1.65E-03         | 2.28E-04          | 0.00E+00                |
| Kansas | Elk County         | 20049 | R                    | 1.24E-03                                                                | 1.24E-03 | 1.24E-03 | 1.24E-03 | 1.24E-03 | 1.24E-03 | 1.24E-03 | 1.24E-03 | 6.98E-09                         | 3.69E-04          | 7.12E-04         | 1.62E-04          | 0.00E+00                |
| Kansas | Ellis County       | 20051 | U                    | 1.69E-03                                                                | 1.70E-03 | 1.73E-03 | 1.18E-02 | 9.74E-03 | 1.20E-02 | 1.22E-02 | 1.22E-02 | 0.00E+00                         | 2.24E-04          | 6.56E-03         | 2.95E-03          | 0.00E+00                |
| Kansas | Ellsworth County   | 20053 | R                    | 1.44E-03                                                                | 1.48E-03 | 1.62E-03 | 1.84E-03 | 1.98E-03 | 2.06E-03 | 2.20E-03 | 2.24E-03 | 2.10E-12                         | 1.24E-04          | 1.60E-03         | 2.56E-04          | 0.00E+00                |
| Kansas | Finney County      | 20055 | U                    | 1.67E-02                                                                | 1.86E-02 | 2.23E-02 | 2.24E-02 | 2.19E-02 | 2.26E-02 | 2.88E-02 | 3.19E-02 | 0.00E+00                         | 1.06E-02          | 6.99E-03         | 4.32E-03          | 0.00E+00                |
| Kansas | Ford County        | 20057 | U                    | 2.12E-03                                                                | 2.49E-03 | 7.28E-03 | 1.94E-02 | 1.72E-02 | 1.97E-02 | 2.00E-02 | 2.01E-02 | 0.00E+00                         | 1.42E-04          | 7.77E-03         | 9.24E-03          | 0.00E+00                |
| Kansas | Franklin County    | 20059 | R                    | 7.32E-03                                                                | 7.49E-03 | 7.99E-03 | 1.57E-02 | 1.88E-02 | 3.30E-02 | 3.30E-02 | 3.30E-02 | 0.00E+00                         | 3.49E-03          | 1.37E-02         | 1.64E-03          | 0.00E+00                |
| Kansas | Geary County       | 20061 | U                    | 1.29E-02                                                                | 1.47E-02 | 2.53E-02 | 3.48E-02 | 3.31E-02 | 4.22E-02 | 4.25E-02 | 4.30E-02 | 0.00E+00                         | 3.99E-03          | 2.25E-02         | 6.61E-03          | 0.00E+00                |
| Kansas | Gove County        | 20063 | R                    | 3.46E-04                                                                | 3.49E-04 | 3.60E-04 | 3.77E-04 | 3.83E-04 | 3.94E-04 | 4.05E-04 | 4.08E-04 | 0.00E+00                         | 5.53E-06          | 3.17E-04         | 6.10E-05          | 0.00E+00                |
| Kansas | Graham County      | 20065 | R                    | 8.07E-04                                                                | 8.95E-04 | 1.16E-03 | 1.60E-03 | 1.73E-03 | 2.04E-03 | 2.30E-03 | 2.39E-03 | 0.00E+00                         | 5.29E-04          | 1.07E-03         | 1.24E-04          | 0.00E+00                |
| Kansas | Grant County       | 20067 | U                    | 2.61E-03                                                                | 2.61E-03 | 2.62E-03 | 2.62E-03 | 2.62E-03 | 2.62E-03 | 2.63E-03 | 2.63E-03 | 0.00E+00                         | 2.79E-04          | 1.16E-03         | 1.18E-03          | 0.00E+00                |
| Kansas | Gray County        | 20069 | R                    | 6.78E-04                                                                | 6.87E-04 | 7.13E-04 | 7.57E-04 | 7.52E-04 | 8.01E-04 | 8.28E-04 | 8.37E-04 | 0.00E+00                         | 7.77E-05          | 4.89E-04         | 1.86E-04          | 0.00E+00                |
| Kansas | Greeley County     | 20071 | R                    | 2.79E-04                                                                | 2.79E-04 | 2.79E-04 | 2.79E-04 | 2.79E-04 | 2.79E-04 | 2.79E-04 | 2.79E-04 | 0.00E+00                         | 9.31E-06          | 2.16E-04         | 5.32E-05          | 0.00E+00                |
| Kansas | Greenwood County   | 20073 | R                    | 1.30E-04                                                                | 2.60E-04 | 6.50E-04 | 1.15E-03 | 2.68E-03 | 2.30E-03 | 3.86E-03 | 4.38E-03 | 2.07E-08                         | 7.67E-04          | 1.69E-03         | 2.21E-04          | 0.00E+00                |
| Kansas | Hamilton County    | 20075 | R                    | 3.52E-04                                                                | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 3.52E-04 | 0.00E+00                         | 6.67E-05          | 2.28E-04         | 5.73E-05          | 0.00E+00                |
| Kansas | Harper County      | 20077 | R                    | 8.83E-04                                                                | 9.86E-04 | 1.30E-03 | 1.81E-03 | 1.83E-03 | 2.19E-03 | 2.42E-03 | 2.49E-03 | 7.76E-09                         | 2.26E-04          | 1.34E-03         | 2.67E-04          | 0.00E+00                |
| Kansas | Harvey County      | 20079 | U                    | 3.97E-03                                                                | 4.31E-03 | 9.12E-03 | 2.34E-02 | 1.72E-02 | 2.60E-02 | 2.75E-02 | 2.81E-02 | 1.96E-07                         | 2.39E-04          | 1.30E-02         | 3.95E-03          | 0.00E+00                |
| Kansas | Haskell County     | 20081 | R                    | 8.42E-04                                                                | 8.42E-04 | 8.42E-04 | 8.42E-04 | 8.42E-04 | 8.42E-04 | 8.42E-04 | 8.42E-04 | 0.00E+00                         | 1.99E-04          | 4.67E-04         | 1.76E-04          | 0.00E+00                |
| Kansas | Hodgeman County    | 20083 | R                    | 3.94E-04                                                                | 3.94E-04 | 3.94E-04 | 3.94E-04 | 3.94E-04 | 3.94E-04 | 3.94E-04 | 3.94E-04 | 0.00E+00                         | 5.91E-06          | 2.39E-04         | 1.50E-04          | 0.00E+00                |
| Kansas | Jackson County     | 20085 | R                    | 4.68E-03                                                                | 5.10E-03 | 6.36E-03 | 8.47E-03 | 7.99E-03 | 9.61E-03 | 1.03E-02 | 1.05E-02 | 8.66E-08                         | 1.45E-03          | 5.82E-03         | 7.19E-04          | 0.00E+00                |
| Kansas | Jefferson County   | 20087 | R                    | 5.71E-03                                                                | 6.15E-03 | 7.46E-03 | 9.64E-03 | 9.00E-03 | 1.02E-02 | 1.05E-02 | 1.06E-02 | 1.59E-07                         | 9.39E-04          | 6.11E-03         | 1.96E-03          | 0.00E+00                |
| Kansas | Jewell County      | 20089 | R                    | 1.84E-03                                                                | 1.84E-03 | 1.84E-03 | 1.85E-03 | 1.85E-03 | 1.85E-03 | 1.85E-03 | 1.85E-03 | 0.00E+00                         | 6.41E-04          | 9.87E-04         | 2.17E-04          | 0.00E+00                |
| Kansas | Johnson County     | 20091 | U                    | 2.89E-02                                                                | 3.89E-02 | 5.85E-02 | 6.84E-02 | 6.66E-02 | 7.78E-02 | 8.48E-02 | 8.88E-02 | 7.93E-09                         | 5.74E-04          | 5.07E-02         | 1.54E-02          | 0.00E+00                |
| Kansas | Kearny County      | 20093 | R                    | 1.15E-03                                                                | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 0.00E+00                         | 5.66E-04          | 4.18E-04         | 1.70E-04          | 0.00E+00                |
| Kansas | Kingman County     | 20095 | R                    | 1.24E-03                                                                | 1.32E-03 | 1.55E-03 | 1.93E-03 | 2.36E-03 | 2.68E-03 | 3.13E-03 | 3.28E-03 | 1.08E-08                         | 4.40E-05          | 2.02E-03         | 3.01E-04          | 0.00E+00                |
| Kansas | Kiowa County       | 20097 | R                    | 5.79E-04                                                                | 5.79E-04 | 5.79E-04 | 5.79E-04 | 5.79E-04 | 5.79E-04 | 5.79E-04 | 5.79E-04 | 0.00E+00                         | 4.31E-05          | 4.53E-04         | 8.23E-05          | 0.00E+00                |
| Kansas | Labette County     | 20099 | R                    | 2.58E-03                                                                | 2.85E-03 | 3.31E-03 | 8.75E-03 | 9.93E-03 | 1.33E-02 | 1.57E-02 | 1.84E-02 | 0.00E+00                         | 1.57E-03          | 7.64E-03         | 7.23E-04          | 0.00E+00                |
| Kansas | Lane County        | 20101 | R                    | 3.42E-04                                                                | 3.42E-04 | 3.42E-04 | 3.42E-04 | 3.42E-04 | 3.42E-04 | 3.42E-04 | 3.42E-04 | 0.00E+00                         | 2.99E-06          | 2.83E-04         | 5.62E-05          | 0.00E+00                |
| Kansas | Leavenworth County | 20103 | U                    | 9.10E-03                                                                | 1.01E-02 | 1.30E-02 | 2.14E-02 | 2.05E-02 | 2.52E-02 | 2.81E-02 | 3.23E-02 | 3.45E-08                         | 1.95E-03          | 1.39E-02         | 4.64E-03          | 0.00E+00                |
| Kansas | Lincoln County     | 20105 | R                    | 8.78E-04                                                                | 8.78E-04 | 8.78E-04 | 8.78E-04 | 8.78E-04 | 8.78E-04 | 8.78E-04 | 8.78E-04 | 0.00E+00                         | 1.43E-04          | 5.92E-04         | 1.43E-04          | 0.00E+00                |
| Kansas | Linn County        | 20107 | R                    | 2.89E-03                                                                | 2.94E-03 | 3.08E-03 | 3.31E-03 | 3.29E-03 | 3.54E-03 | 3.68E-03 | 3.72E-03 | 0.00E+00                         | 8.34E-04          | 2.04E-03         | 4.24E-04          | 0.00E+00                |
| Kansas | Logan County       | 20109 | R                    | 2.87E-04                                                                | 3.15E-04 | 3.99E-04 | 5.38E-04 | 6.78E-04 | 7.62E-04 | 7.90E-04 | 7.90E-04 | 0.00E+00                         | 4.19E-06          | 6.15E-04         | 5.89E-05          | 0.00E+00                |
| Kansas | Lyon County        | 20111 | U                    | 4.01E-03                                                                | 4.48E-03 | 4.92E-03 | 1.53E-02 | 1.72E-02 | 2.14E-02 | 2.77E-02 | 3.49E-02 | 2.63E-13                         | 1.44E-03          | 1.10E-02         | 4.74E-03          | 0.00E+00                |
| Kansas | McPherson County   | 20113 | U                    | 3.05E-03                                                                | 3.06E-03 | 3.21E-03 | 4.80E-03 | 7.85E-03 | 1.16E-02 | 1.46E-02 | 1.66E-02 | 1.41E-07                         | 1.51E-04          | 5.39E-03         | 2.31E-03          | 0.00E+00                |
| Kansas | Marion County      | 20115 | R                    | 1.51E-03                                                                | 1.53E-03 | 1.58E-03 | 1.66E-03 | 1.65E-03 | 1.73E-03 | 1.77E-03 | 1.78E-03 | 3.61E-07                         | 6.60E-05          | 1.31E-03         | 2.73E-04          | 0.00E+00                |
| Kansas | Marshall County    | 20117 | R                    | 1.89E-03                                                                | 1.90E-03 | 1.91E-03 | 2.73E-03 | 4.06E-03 | 4.39E-03 | 5.94E-03 | 6.45E-03 | 5.55E-08                         | 1.09E-03          | 2.62E-03         | 3.51E-04          | 0.00E+00                |
| Kansas | Meade County       | 20119 | R                    | 5.47E-04                                                                | 5.89E-04 | 7.17E-04 | 9.29E-04 | 8.37E-04 | 1.14E-03 | 1.27E-03 | 1.31E-03 | 0.00E+00                         | 2.32E-05          | 6.70E-04         | 1.44E-04          | 0.00E+00                |
| Kansas | Miami County       | 20121 | U                    | 6.61E-03                                                                | 7.37E-03 | 8.59E-03 | 9.52E-03 | 9.23E-03 | 1.02E-02 | 1.11E-02 | 1.14E-02 | 0.00E+00                         | 1.16E-03          | 6.44E-03         | 1.62E-03          | 0.00E+00                |
| Kansas | Mitchell County    | 20123 | U                    | 8.38E-04                                                                | 8.52E-04 | 8.94E-04 | 9.64E-04 | 1.01E-03 | 1.04E-03 | 1.08E-03 | 1.09E-03 | 0.00E+00                         | 1.07E-04          | 6.08E-04         | 2.99E-04          | 0.00E+00                |
| Kansas | Montgomery County  | 20125 | U                    | 4.41E-03                                                                | 4.63E-03 | 5.92E-03 | 1.48E-02 | 1.60E-02 | 2.36E-02 | 3.25E-02 | 3.50E-02 | 1.55E-08                         | 2.84E-03          | 1.05E-02         | 2.68E-03          | 0.00E+00                |
| Kansas | Morris County      | 20127 | R                    | 2.11E-03                                                                | 2.33E-03 | 2.97E-03 | 4.05E-03 | 3.73E-03 | 5.12E-03 | 5.77E-03 | 5.98E-03 | 2.08E-10                         | 8.52E-04          | 2.51E-03         | 3.59E-04          | 0.00E+00                |
| Kansas | Morton County      | 20129 | R                    | 6.93E-04                                                                | 6.93E-04 | 6.93E-04 | 6.93E-04 | 6.93E-04 | 6.93E-04 | 6.93E-04 | 6.93E-04 | 0.00E+00                         | 2.95E-05          | 5.65E-04         | 9.78E-05          | 0.00E+00                |
| Kansas | Nemaha County      | 20131 | R                    | 2.54E-03                                                                | 2.60E-03 | 2.76E-03 | 3.03E-03 | 3.35E-03 | 3.78E-03 | 4.22E-03 | 4.37E-03 | 1.20E-06                         | 4.21E-04          | 2.60E-03         | 3.29E-04          | 0.00E+00                |
| Kansas | Neosho County      | 20133 | U                    | 2.09E-03                                                                | 2.11E-03 | 2.17E-03 | 1.34E-02 | 8.89E-03 | 1.34E-02 | 1.34E-02 | 1.35E-02 | 0.00E+00                         | 1.45E-03          | 5.56E-03         | 1.88E-03          | 0.00E+00                |
| Kansas | Ness County        | 20135 | R                    | 7.42E-04                                                                | 7.43E-04 | 7.43E-04 | 7.44E-04 | 7.44E-04 | 7.44E-04 | 7.45E-04 | 7.45E-04 | 0.00E+00                         | 1.93E-05          | 5.89E-04         | 1.35E-04          | 0.00E+00                |
| Kansas | Norton County      | 20137 | R                    | 6.91E-04                                                                | 7.06E-04 | 7.53E-04 | 8.30E-04 | 9.09E-04 | 9.07E-04 | 9.53E-04 | 9.68E-04 | 0.00E+00                         | 7.82E-05          | 6.43E-04         | 1.88E-04          | 0.00E+00                |
| Kansas | Osage County       | 20139 | R                    | 3.33E-03                                                                | 4.06E-03 | 6.25E-03 | 6.45E-03 | 6.70E-03 | 7.43E-03 | 8.30E-03 | 8.58E-03 | 0.00E+00                         | 5.60E-04          | 5.33E-03         | 8.15E-04          | 0.00E+00                |
| Kansas | Osborne County     | 20141 | R                    | 5.99E-04                                                                | 6.22E-04 | 6.89E-04 | 8.01E-04 | 8.99E-04 | 9.13E-04 | 9.80E-04 | 1.00E-03 | 0.00E+00                         | 4.14E-05          | 7.50E-04         | 1.08E-04          | 0.00E+00                |
| Kansas | Ottawa County      | 20143 | R                    | 2.31E-03                                                                | 2.35E-03 | 2.45E-03 | 2.63E-03 | 2.49E-03 | 2.81E-03 | 2.92E-03 | 2.95E-03 | 0.00E+00                         | 2.39E-04          | 1.74E-03         | 5.04E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                      |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|----------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                      |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area<br>and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Kansas   | Pawnee County        | 20145 | U                    | 8.44E-04                                                                | 1.10E-03 | 1.86E-03 | 3.13E-03 | 2.69E-03 | 3.14E-03 | 3.15E-03 | 3.15E-03 | 1.02E-12                         | 2.58E-04             | 1.56E-03         | 8.74E-04          | 0.00E+00                |
| Kansas   | Phillips County      | 20147 | R                    | 5.96E-04                                                                | 6.15E-04 | 6.70E-04 | 7.61E-04 | 2.89E-03 | 2.98E-03 | 4.32E-03 | 4.76E-03 | 0.00E+00                         | 1.39E-03             | 1.28E-03         | 2.21E-04          | 0.00E+00                |
| Kansas   | Pottawatomie County  | 20149 | R                    | 2.37E-03                                                                | 2.42E-03 | 2.58E-03 | 6.56E-03 | 7.53E-03 | 1.08E-02 | 1.15E-02 | 1.18E-02 | 1.42E-09                         | 1.62E-03             | 4.69E-03         | 1.23E-03          | 0.00E+00                |
| Kansas   | Pratt County         | 20151 | U                    | 6.95E-03                                                                | 6.95E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 6.96E-03 | 9.58E-13                         | 3.26E-04             | 3.58E-03         | 3.06E-03          | 0.00E+00                |
| Kansas   | Rawlins County       | 20153 | R                    | 1.12E-03                                                                | 1.12E-03 | 1.12E-03 | 1.12E-03 | 1.12E-03 | 1.12E-03 | 1.12E-03 | 1.12E-03 | 0.00E+00                         | 1.76E-05             | 9.83E-04         | 1.18E-04          | 0.00E+00                |
| Kansas   | Reno County          | 20155 | U                    | 2.93E-03                                                                | 3.07E-03 | 3.91E-03 | 1.22E-02 | 1.37E-02 | 1.88E-02 | 2.25E-02 | 2.31E-02 | 4.62E-09                         | 8.38E-05             | 1.01E-02         | 3.52E-03          | 0.00E+00                |
| Kansas   | Republic County      | 20157 | R                    | 9.69E-04                                                                | 9.84E-04 | 1.03E-03 | 1.10E-03 | 2.07E-03 | 2.31E-03 | 3.04E-03 | 3.28E-03 | 0.00E+00                         | 2.35E-04             | 1.53E-03         | 3.05E-04          | 0.00E+00                |
| Kansas   | Rice County          | 20159 | R                    | 1.76E-03                                                                | 1.77E-03 | 1.78E-03 | 1.79E-03 | 2.86E-03 | 3.23E-03 | 4.09E-03 | 4.38E-03 | 4.80E-10                         | 6.98E-05             | 2.37E-03         | 4.23E-04          | 0.00E+00                |
| Kansas   | Riley County         | 20161 | U                    | 1.28E-02                                                                | 1.50E-02 | 2.05E-02 | 4.37E-02 | 3.71E-02 | 5.62E-02 | 6.10E-02 | 6.23E-02 | 0.00E+00                         | 6.84E-03             | 2.16E-02         | 8.72E-03          | 0.00E+00                |
| Kansas   | Rooks County         | 20163 | R                    | 7.76E-04                                                                | 7.86E-04 | 8.16E-04 | 8.65E-04 | 8.82E-04 | 9.14E-04 | 9.44E-04 | 9.54E-04 | 0.00E+00                         | 1.92E-05             | 7.10E-04         | 1.53E-04          | 0.00E+00                |
| Kansas   | Rush County          | 20165 | R                    | 8.71E-04                                                                | 8.96E-04 | 9.72E-04 | 1.10E-03 | 1.24E-03 | 1.23E-03 | 1.30E-03 | 1.33E-03 | 0.00E+00                         | 4.34E-05             | 9.36E-04         | 2.59E-04          | 0.00E+00                |
| Kansas   | Russell County       | 20167 | U                    | 5.80E-04                                                                | 6.33E-04 | 7.90E-04 | 1.05E-03 | 1.64E-03 | 1.59E-03 | 1.90E-03 | 2.01E-03 | 0.00E+00                         | 7.65E-05             | 9.54E-04         | 6.05E-04          | 0.00E+00                |
| Kansas   | Saline County        | 20169 | U                    | 4.04E-03                                                                | 5.10E-03 | 1.10E-02 | 1.92E-02 | 1.82E-02 | 2.21E-02 | 2.28E-02 | 2.68E-02 | 6.10E-10                         | 1.24E-03             | 8.66E-03         | 8.30E-03          | 0.00E+00                |
| Kansas   | Scott County         | 20171 | U                    | 3.38E-04                                                                | 3.38E-04 | 3.38E-04 | 3.38E-04 | 3.38E-04 | 3.38E-04 | 3.38E-04 | 3.38E-04 | 0.00E+00                         | 5.24E-05             | 1.94E-04         | 9.12E-05          | 0.00E+00                |
| Kansas   | Sedgwick County      | 20173 | U                    | 1.71E-02                                                                | 2.29E-02 | 4.31E-02 | 4.89E-02 | 4.57E-02 | 5.78E-02 | 6.48E-02 | 7.55E-02 | 1.08E-06                         | 6.12E-05             | 3.70E-02         | 8.66E-03          | 0.00E+00                |
| Kansas   | Seward County        | 20175 | U                    | 1.85E-03                                                                | 3.04E-03 | 6.64E-03 | 7.17E-03 | 7.34E-03 | 8.88E-03 | 9.71E-03 | 9.98E-03 | 0.00E+00                         | 1.15E-04             | 3.59E-03         | 3.64E-03          | 0.00E+00                |
| Kansas   | Shawnee County       | 20177 | U                    | 1.96E-02                                                                | 2.59E-02 | 4.11E-02 | 5.65E-02 | 5.16E-02 | 6.31E-02 | 7.19E-02 | 7.56E-02 | 0.00E+00                         | 7.55E-04             | 4.42E-02         | 6.63E-03          | 0.00E+00                |
| Kansas   | Sheridan County      | 20179 | R                    | 5.48E-04                                                                | 5.98E-04 | 7.47E-04 | 9.95E-04 | 9.93E-04 | 1.24E-03 | 1.39E-03 | 1.44E-03 | 0.00E+00                         | 2.34E-05             | 8.50E-04         | 1.20E-04          | 0.00E+00                |
| Kansas   | Sherman County       | 20181 | U                    | 6.61E-04                                                                | 7.68E-04 | 1.09E-03 | 1.63E-03 | 2.23E-03 | 2.16E-03 | 2.48E-03 | 2.59E-03 | 0.00E+00                         | 1.96E-04             | 9.32E-04         | 1.11E-03          | 0.00E+00                |
| Kansas   | Smith County         | 20183 | R                    | 8.21E-04                                                                | 8.30E-04 | 8.55E-04 | 8.97E-04 | 1.80E-03 | 1.97E-03 | 2.61E-03 | 2.83E-03 | 0.00E+00                         | 1.77E-04             | 1.44E-03         | 1.81E-04          | 0.00E+00                |
| Kansas   | Stafford County      | 20185 | R                    | 1.06E-03                                                                | 1.09E-03 | 1.20E-03 | 1.38E-03 | 1.39E-03 | 1.57E-03 | 1.67E-03 | 1.71E-03 | 2.31E-12                         | 1.19E-04             | 9.91E-04         | 2.82E-04          | 0.00E+00                |
| Kansas   | Stanton County       | 20187 | R                    | 4.58E-04                                                                | 4.58E-04 | 4.58E-04 | 4.58E-04 | 4.58E-04 | 4.58E-04 | 4.58E-04 | 4.58E-04 | 0.00E+00                         | 6.43E-05             | 3.06E-04         | 8.73E-05          | 0.00E+00                |
| Kansas   | Stevens County       | 20189 | U                    | 4.83E-04                                                                | 6.01E-04 | 9.55E-04 | 1.55E-03 | 2.03E-03 | 2.14E-03 | 2.49E-03 | 2.61E-03 | 0.00E+00                         | 6.39E-04             | 7.37E-04         | 6.53E-04          | 0.00E+00                |
| Kansas   | Sumner County        | 20191 | R                    | 1.85E-03                                                                | 2.12E-03 | 2.77E-03 | 4.54E-03 | 5.51E-03 | 5.96E-03 | 8.31E-03 | 9.47E-03 | 5.96E-08                         | 9.41E-05             | 4.60E-03         | 8.16E-04          | 0.00E+00                |
| Kansas   | Thomas County        | 20193 | U                    | 4.27E-04                                                                | 4.31E-04 | 4.45E-04 | 4.69E-04 | 1.50E-03 | 1.18E-03 | 1.61E-03 | 1.75E-03 | 0.00E+00                         | 1.09E-04             | 8.82E-04         | 5.09E-04          | 0.00E+00                |
| Kansas   | Trego County         | 20195 | R                    | 7.22E-04                                                                | 7.77E-04 | 9.39E-04 | 1.21E-03 | 1.35E-03 | 1.48E-03 | 1.64E-03 | 1.70E-03 | 0.00E+00                         | 3.89E-05             | 1.11E-03         | 2.00E-04          | 0.00E+00                |
| Kansas   | Wabaunsee County     | 20197 | R                    | 2.90E-03                                                                | 2.96E-03 | 3.13E-03 | 3.43E-03 | 3.30E-03 | 3.72E-03 | 3.90E-03 | 3.96E-03 | 0.00E+00                         | 3.21E-04             | 2.55E-03         | 4.26E-04          | 0.00E+00                |
| Kansas   | Wallace County       | 20199 | R                    | 3.40E-04                                                                | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 0.00E+00                         | 6.62E-05             | 2.18E-04         | 5.59E-05          | 0.00E+00                |
| Kansas   | Washington County    | 20201 | R                    | 1.20E-03                                                                | 1.21E-03 | 1.26E-03 | 1.34E-03 | 1.32E-03 | 1.41E-03 | 1.46E-03 | 1.48E-03 | 0.00E+00                         | 3.17E-04             | 8.27E-04         | 1.73E-04          | 0.00E+00                |
| Kansas   | Wichita County       | 20203 | R                    | 4.14E-04                                                                | 4.14E-04 | 4.14E-04 | 4.14E-04 | 4.14E-04 | 4.14E-04 | 4.14E-04 | 4.14E-04 | 0.00E+00                         | 6.16E-06             | 3.38E-04         | 6.95E-05          | 0.00E+00                |
| Kansas   | Wilson County        | 20205 | U                    | 2.80E-03                                                                | 3.20E-03 | 4.39E-03 | 9.28E-03 | 8.26E-03 | 1.35E-02 | 1.35E-02 | 1.35E-02 | 0.00E+00                         | 4.40E-03             | 2.91E-03         | 9.40E-04          | 0.00E+00                |
| Kansas   | Woodson County       | 20207 | R                    | 8.75E-03                                                                | 8.75E-03 | 8.75E-03 | 8.76E-03 | 8.76E-03 | 8.76E-03 | 8.76E-03 | 8.76E-03 | 0.00E+00                         | 5.49E-03             | 2.94E-03         | 3.33E-04          | 0.00E+00                |
| Kansas   | Wyandotte County     | 20209 | U                    | 0.00E+00                                                                | 3.06E-02 | 4.94E-02 | 6.49E-02 | 6.99E-02 | 7.69E-02 | 9.16E-02 | 1.08E-01 | 0.00E+00                         | 4.63E-04             | 5.84E-02         | 1.10E-02          | 0.00E+00                |
| Kentucky | Statewide            | 21000 | -                    | 6.43E-03                                                                | 7.40E-03 | 9.94E-03 | 1.96E-02 | 4.69E-02 | 7.74E-02 | 1.23E-01 | 1.46E-01 | 4.57E-03                         | 2.70E-03             | 3.30E-02         | 6.57E-03          | 0.00E+00                |
| Kentucky | State Urban Counties | 21000 | U                    | 1.00E-02                                                                | 1.32E-02 | 3.35E-02 | 7.71E-02 | 7.55E-02 | 1.14E-01 | 1.45E-01 | 1.67E-01 | 7.87E-03                         | 1.67E-03             | 5.45E-02         | 1.14E-02          | 0.00E+00                |
| Kentucky | State Rural Counties | 21000 | R                    | 5.75E-03                                                                | 6.58E-03 | 7.91E-03 | 1.05E-02 | 1.48E-02 | 1.48E-02 | 2.35E-02 | 3.05E-02 | 8.82E-04                         | 3.85E-03             | 8.88E-03         | 1.19E-03          | 0.00E+00                |
| Kentucky | Adair County         | 21001 | R                    | 6.03E-03                                                                | 6.06E-03 | 6.20E-03 | 7.12E-03 | 6.81E-03 | 7.94E-03 | 7.98E-03 | 7.99E-03 | 2.81E-06                         | 2.26E-03             | 4.06E-03         | 4.87E-04          | 0.00E+00                |
| Kentucky | Allen County         | 21003 | R                    | 7.73E-03                                                                | 7.77E-03 | 7.86E-03 | 8.41E-03 | 1.13E-02 | 1.29E-02 | 1.43E-02 | 1.44E-02 | 0.00E+00                         | 3.53E-03             | 6.83E-03         | 9.39E-04          | 0.00E+00                |
| Kentucky | Anderson County      | 21005 | R                    | 9.34E-03                                                                | 9.83E-03 | 1.13E-02 | 1.34E-02 | 1.38E-02 | 1.50E-02 | 1.55E-02 | 1.57E-02 | 2.29E-05                         | 2.24E-03             | 9.80E-03         | 1.78E-03          | 0.00E+00                |
| Kentucky | Ballard County       | 21007 | R                    | 5.78E-03                                                                | 5.89E-03 | 6.25E-03 | 6.84E-03 | 6.77E-03 | 8.38E-03 | 9.31E-03 | 9.62E-03 | 0.00E+00                         | 1.94E-03             | 3.95E-03         | 8.79E-04          | 0.00E+00                |
| Kentucky | Barren County        | 21009 | R                    | 6.45E-03                                                                | 6.81E-03 | 6.93E-03 | 8.35E-03 | 1.27E-02 | 1.40E-02 | 2.07E-02 | 2.27E-02 | 0.00E+00                         | 2.12E-03             | 9.28E-03         | 1.28E-03          | 0.00E+00                |
| Kentucky | Bath County          | 21011 | R                    | 9.95E-03                                                                | 1.01E-02 | 1.05E-02 | 1.11E-02 | 1.35E-01 | 3.42E-01 | 5.40E-01 | 6.06E-01 | 1.28E-01                         | 1.97E-03             | 4.78E-03         | 6.97E-04          | 0.00E+00                |
| Kentucky | Bell County          | 21013 | R                    | 1.02E-02                                                                | 1.03E-02 | 1.07E-02 | 1.12E-02 | 1.77E-02 | 1.89E-02 | 2.38E-02 | 3.35E-02 | 9.23E-11                         | 6.24E-03             | 1.07E-02         | 7.34E-04          | 0.00E+00                |
| Kentucky | Boone County         | 21015 | U                    | 2.04E-02                                                                | 2.08E-02 | 3.32E-02 | 4.66E-02 | 4.98E-02 | 5.57E-02 | 7.11E-02 | 9.73E-02 | 2.33E-04                         | 1.61E-03             | 2.99E-02         | 1.81E-02          | 0.00E+00                |
| Kentucky | Bourbon County       | 21017 | U                    | 1.12E-02                                                                | 1.14E-02 | 1.18E-02 | 1.26E-02 | 2.20E-02 | 2.12E-02 | 3.21E-02 | 3.62E-02 | 1.16E-03                         | 1.32E-03             | 1.28E-02         | 6.78E-03          | 0.00E+00                |
| Kentucky | Boyd County          | 21019 | U                    | 3.07E-02                                                                | 3.70E-02 | 4.82E-02 | 6.14E-02 | 5.64E-02 | 7.59E-02 | 8.19E-02 | 9.30E-02 | 1.10E-03                         | 5.22E-03             | 4.42E-02         | 5.87E-03          | 0.00E+00                |
| Kentucky | Boyle County         | 21021 | U                    | 1.01E-02                                                                | 1.08E-02 | 1.27E-02 | 2.30E-02 | 2.22E-02 | 2.57E-02 | 3.31E-02 | 3.78E-02 | 3.93E-06                         | 1.05E-03             | 1.68E-02         | 4.36E-03          | 0.00E+00                |
| Kentucky | Bracken County       | 21023 | R                    | 8.77E-03                                                                | 8.80E-03 | 8.90E-03 | 9.05E-03 | 9.11E-03 | 9.53E-03 | 9.82E-03 | 9.92E-03 | 8.65E-05                         | 1.87E-03             | 6.01E-03         | 1.14E-03          | 0.00E+00                |
| Kentucky | Breathitt County     | 21025 | R                    | 7.42E-03                                                                | 7.42E-03 | 7.68E-03 | 8.23E-03 | 1.15E-02 | 1.27E-02 | 1.64E-02 | 1.65E-02 | 0.00E+00                         | 6.47E-03             | 4.75E-03         | 2.95E-04          | 0.00E+00                |
| Kentucky | Breckinridge County  | 21027 | R                    | 5.90E-03                                                                | 5.90E-03 | 5.92E-03 | 5.97E-03 | 6.45E-03 | 7.12E-03 | 7.19E-03 | 7.21E-03 | 2.86E-04                         | 2.13E-03             | 3.53E-03         | 5.01E-04          | 0.00E+00                |
| Kentucky | Bullitt County       | 21029 | U                    | 1.83E-02                                                                | 2.09E-02 | 2.22E-02 | 2.66E-02 | 3.14E-02 | 3.49E-02 | 5.40E-02 | 5.47E-02 | 2.19E-03                         | 1.97E-03             | 2.20E-02         | 5.23E-03          | 0.00E+00                |
| Kentucky | Butler County        | 21031 | R                    | 6.21E-03                                                                | 6.33E-03 | 6.66E-03 | 7.02E-03 | 7.01E-03 | 7.05E-03 | 7.70E-03 | 7.91E-03 | 5.28E-08                         | 3.09E-03             | 3.48E-03         | 4.29E-04          | 0.00E+00                |

| State    | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Kentucky | Caldwell County   | 21033 | U                    | 5.77E-03                                                                | 6.13E-03 | 7.21E-03 | 9.02E-03 | 8.41E-03 | 9.04E-03 | 9.05E-03 | 9.05E-03 | 5.85E-12                         | 3.85E-03          | 3.83E-03         | 7.33E-04          | 0.00E+00                |
| Kentucky | Calloway County   | 21035 | R                    | 8.99E-03                                                                | 9.17E-03 | 9.48E-03 | 1.58E-02 | 2.01E-02 | 2.80E-02 | 3.32E-02 | 3.39E-02 | 0.00E+00                         | 2.40E-03          | 1.49E-02         | 2.84E-03          | 0.00E+00                |
| Kentucky | Campbell County   | 21037 | U                    | 4.82E-02                                                                | 5.66E-02 | 7.02E-02 | 8.75E-02 | 8.61E-02 | 1.18E-01 | 1.48E-01 | 1.53E-01 | 1.34E-03                         | 1.41E-03          | 6.84E-02         | 1.49E-02          | 0.00E+00                |
| Kentucky | Carlisle County   | 21039 | R                    | 4.82E-03                                                                | 4.90E-03 | 5.15E-03 | 5.58E-03 | 5.52E-03 | 5.90E-03 | 6.10E-03 | 6.16E-03 | 0.00E+00                         | 1.57E-03          | 3.34E-03         | 6.12E-04          | 0.00E+00                |
| Kentucky | Carroll County    | 21041 | R                    | 7.66E-03                                                                | 7.66E-03 | 7.67E-03 | 7.68E-03 | 1.19E-02 | 1.15E-02 | 1.37E-02 | 1.45E-02 | 3.35E-05                         | 4.47E-03          | 6.41E-03         | 9.46E-04          | 0.00E+00                |
| Kentucky | Carter County     | 21043 | U                    | 9.15E-03                                                                | 9.54E-03 | 1.03E-02 | 1.24E-02 | 1.35E-02 | 1.26E-02 | 1.61E-02 | 1.85E-02 | 4.91E-05                         | 4.66E-03          | 8.00E-03         | 8.22E-04          | 0.00E+00                |
| Kentucky | Casey County      | 21045 | R                    | 6.84E-03                                                                | 6.91E-03 | 7.12E-03 | 7.21E-03 | 7.28E-03 | 7.44E-03 | 7.75E-03 | 7.86E-03 | 5.28E-06                         | 2.48E-03          | 4.18E-03         | 6.16E-04          | 0.00E+00                |
| Kentucky | Christian County  | 21047 | U                    | 7.57E-03                                                                | 7.78E-03 | 8.30E-03 | 2.46E-02 | 2.58E-02 | 3.51E-02 | 3.73E-02 | 3.94E-02 | 0.00E+00                         | 2.88E-03          | 1.88E-02         | 4.11E-03          | 0.00E+00                |
| Kentucky | Clark County      | 21049 | U                    | 1.32E-02                                                                | 1.34E-02 | 1.41E-02 | 1.80E-02 | 3.22E-02 | 3.69E-02 | 4.23E-02 | 4.62E-02 | 1.24E-03                         | 1.06E-03          | 2.43E-02         | 5.64E-03          | 0.00E+00                |
| Kentucky | Clay County       | 21051 | R                    | 9.01E-03                                                                | 9.03E-03 | 9.12E-03 | 9.74E-03 | 1.21E-02 | 1.06E-02 | 1.51E-02 | 1.73E-02 | 0.00E+00                         | 5.65E-03          | 6.09E-03         | 4.03E-04          | 0.00E+00                |
| Kentucky | Clinton County    | 21053 | R                    | 8.87E-03                                                                | 8.92E-03 | 9.04E-03 | 9.25E-03 | 9.07E-03 | 9.46E-03 | 9.58E-03 | 9.62E-03 | 0.00E+00                         | 3.26E-03          | 5.17E-03         | 6.33E-04          | 0.00E+00                |
| Kentucky | Crittenden County | 21055 | R                    | 5.30E-03                                                                | 5.37E-03 | 5.56E-03 | 5.96E-03 | 7.77E-03 | 7.22E-03 | 8.96E-03 | 9.54E-03 | 1.14E-09                         | 3.91E-03          | 3.31E-03         | 5.50E-04          | 0.00E+00                |
| Kentucky | Cumberland County | 21057 | R                    | 7.36E-03                                                                | 7.36E-03 | 7.37E-03 | 7.38E-03 | 7.37E-03 | 7.39E-03 | 7.39E-03 | 7.39E-03 | 0.00E+00                         | 4.16E-03          | 2.85E-03         | 3.68E-04          | 0.00E+00                |
| Kentucky | Daviess County    | 21059 | U                    | 1.63E-02                                                                | 1.82E-02 | 2.07E-02 | 4.67E-02 | 4.15E-02 | 5.66E-02 | 5.82E-02 | 6.19E-02 | 4.20E-08                         | 3.96E-03          | 3.03E-02         | 7.22E-03          | 0.00E+00                |
| Kentucky | Edmonson County   | 21061 | R                    | 8.13E-03                                                                | 8.21E-03 | 8.45E-03 | 9.26E-03 | 9.37E-03 | 1.01E-02 | 1.05E-02 | 1.06E-02 | 1.28E-05                         | 3.85E-03          | 4.83E-03         | 6.80E-04          | 0.00E+00                |
| Kentucky | Elliott County    | 21063 | R                    | 8.61E-03                                                                | 8.64E-03 | 8.73E-03 | 8.88E-03 | 8.77E-03 | 9.03E-03 | 9.12E-03 | 9.15E-03 | 3.07E-05                         | 4.28E-03          | 4.06E-03         | 3.95E-04          | 0.00E+00                |
| Kentucky | Estill County     | 21065 | R                    | 1.02E-02                                                                | 1.13E-02 | 1.43E-02 | 1.61E-02 | 1.59E-02 | 1.76E-02 | 2.01E-02 | 2.10E-02 | 1.89E-05                         | 5.78E-03          | 8.98E-03         | 1.12E-03          | 0.00E+00                |
| Kentucky | Fayette County    | 21067 | U                    | 4.97E-02                                                                | 6.68E-02 | 8.37E-02 | 1.04E-01 | 1.04E-01 | 1.22E-01 | 1.32E-01 | 1.41E-01 | 2.41E-05                         | 7.16E-04          | 8.63E-02         | 1.70E-02          | 0.00E+00                |
| Kentucky | Fleming County    | 21069 | R                    | 1.03E-02                                                                | 1.10E-02 | 1.34E-02 | 1.49E-02 | 1.38E-02 | 1.55E-02 | 1.60E-02 | 1.62E-02 | 4.67E-03                         | 3.07E-03          | 5.32E-03         | 7.57E-04          | 0.00E+00                |
| Kentucky | Floyd County      | 21071 | R                    | 1.51E-02                                                                | 1.53E-02 | 1.61E-02 | 1.67E-02 | 2.21E-02 | 1.76E-02 | 3.85E-02 | 3.86E-02 | 2.66E-08                         | 7.14E-03          | 1.39E-02         | 1.02E-03          | 0.00E+00                |
| Kentucky | Franklin County   | 21073 | U                    | 1.39E-02                                                                | 1.41E-02 | 1.57E-02 | 3.11E-02 | 2.83E-02 | 3.80E-02 | 4.31E-02 | 5.21E-02 | 5.64E-05                         | 2.82E-03          | 2.02E-02         | 5.30E-03          | 0.00E+00                |
| Kentucky | Fulton County     | 21075 | U                    | 2.54E-03                                                                | 2.83E-03 | 3.73E-03 | 5.22E-03 | 6.85E-03 | 6.64E-03 | 7.50E-03 | 7.78E-03 | 0.00E+00                         | 1.25E-03          | 4.50E-03         | 1.10E-03          | 0.00E+00                |
| Kentucky | Gallatin County   | 21077 | U                    | 1.10E-02                                                                | 1.10E-02 | 1.10E-02 | 1.10E-02 | 1.10E-02 | 1.10E-02 | 1.10E-02 | 1.10E-02 | 1.85E-05                         | 1.82E-03          | 6.88E-03         | 2.27E-03          | 0.00E+00                |
| Kentucky | Garrard County    | 21079 | R                    | 7.44E-03                                                                | 7.67E-03 | 8.36E-03 | 9.66E-03 | 9.55E-03 | 1.06E-02 | 1.08E-02 | 1.08E-02 | 1.43E-06                         | 1.09E-03          | 7.08E-03         | 1.38E-03          | 0.00E+00                |
| Kentucky | Grant County      | 21081 | U                    | 9.15E-03                                                                | 9.86E-03 | 1.20E-02 | 1.43E-02 | 1.48E-02 | 1.64E-02 | 1.81E-02 | 1.87E-02 | 4.63E-05                         | 2.18E-03          | 9.64E-03         | 2.94E-03          | 0.00E+00                |
| Kentucky | Graves County     | 21083 | R                    | 7.40E-03                                                                | 7.55E-03 | 8.46E-03 | 8.68E-03 | 1.29E-02 | 1.82E-02 | 1.88E-02 | 1.94E-02 | 0.00E+00                         | 1.59E-03          | 1.02E-02         | 1.11E-03          | 0.00E+00                |
| Kentucky | Grayson County    | 21085 | R                    | 7.31E-03                                                                | 7.38E-03 | 7.55E-03 | 7.62E-03 | 1.03E-02 | 1.21E-02 | 1.37E-02 | 1.37E-02 | 8.59E-05                         | 3.15E-03          | 5.76E-03         | 1.29E-03          | 0.00E+00                |
| Kentucky | Green County      | 21087 | R                    | 6.38E-03                                                                | 6.39E-03 | 6.39E-03 | 6.51E-03 | 6.71E-03 | 6.73E-03 | 6.92E-03 | 6.98E-03 | 1.73E-05                         | 1.84E-03          | 4.42E-03         | 4.28E-04          | 0.00E+00                |
| Kentucky | Greenup County    | 21089 | U                    | 1.51E-02                                                                | 1.66E-02 | 2.06E-02 | 2.66E-02 | 3.12E-02 | 3.49E-02 | 4.54E-02 | 5.12E-02 | 1.28E-04                         | 6.17E-03          | 2.24E-02         | 2.54E-03          | 0.00E+00                |
| Kentucky | Hancock County    | 21091 | R                    | 9.21E-03                                                                | 9.30E-03 | 9.57E-03 | 1.00E-02 | 1.13E-02 | 1.19E-02 | 1.30E-02 | 1.34E-02 | 0.00E+00                         | 3.57E-03          | 6.76E-03         | 9.59E-04          | 0.00E+00                |
| Kentucky | Hardin County     | 21093 | R                    | 7.14E-03                                                                | 8.72E-03 | 1.82E-02 | 2.32E-02 | 2.06E-02 | 2.60E-02 | 3.49E-02 | 3.80E-02 | 2.80E-04                         | 4.58E-03          | 1.43E-02         | 1.44E-03          | 0.00E+00                |
| Kentucky | Harlan County     | 21095 | R                    | 9.21E-03                                                                | 9.69E-03 | 1.04E-02 | 1.28E-02 | 1.74E-02 | 1.60E-02 | 3.18E-02 | 4.03E-02 | 2.35E-08                         | 6.75E-03          | 1.00E-02         | 6.11E-04          | 0.00E+00                |
| Kentucky | Harrison County   | 21097 | R                    | 6.28E-03                                                                | 6.57E-03 | 7.43E-03 | 7.64E-03 | 1.01E-02 | 1.21E-02 | 1.35E-02 | 1.40E-02 | 3.53E-04                         | 8.90E-04          | 7.60E-03         | 1.24E-03          | 0.00E+00                |
| Kentucky | Hart County       | 21099 | R                    | 5.86E-03                                                                | 6.15E-03 | 7.02E-03 | 7.57E-03 | 7.75E-03 | 8.29E-03 | 8.55E-03 | 8.64E-03 | 3.84E-05                         | 2.53E-03          | 4.58E-03         | 6.05E-04          | 0.00E+00                |
| Kentucky | Henderson County  | 21101 | U                    | 1.07E-02                                                                | 1.14E-02 | 1.72E-02 | 3.32E-02 | 3.58E-02 | 7.59E-02 | 1.00E-01 | 1.04E-01 | 1.68E-08                         | 1.15E-03          | 2.90E-02         | 5.68E-03          | 0.00E+00                |
| Kentucky | Henry County      | 21103 | R                    | 6.73E-03                                                                | 6.76E-03 | 6.84E-03 | 7.36E-03 | 7.91E-03 | 8.18E-03 | 8.78E-03 | 8.98E-03 | 5.96E-04                         | 7.13E-04          | 5.66E-03         | 9.49E-04          | 0.00E+00                |
| Kentucky | Hickman County    | 21105 | R                    | 4.22E-03                                                                | 4.25E-03 | 4.37E-03 | 4.56E-03 | 4.25E-03 | 4.74E-03 | 4.86E-03 | 4.89E-03 | 0.00E+00                         | 8.70E-04          | 2.88E-03         | 5.06E-04          | 0.00E+00                |
| Kentucky | Hopkins County    | 21107 | R                    | 6.99E-03                                                                | 7.16E-03 | 8.13E-03 | 1.02E-02 | 1.61E-02 | 1.82E-02 | 2.98E-02 | 3.41E-02 | 1.41E-10                         | 4.24E-03          | 1.09E-02         | 1.01E-03          | 0.00E+00                |
| Kentucky | Jackson County    | 21109 | R                    | 6.82E-03                                                                | 7.10E-03 | 7.92E-03 | 9.30E-03 | 8.65E-03 | 1.04E-02 | 1.10E-02 | 1.12E-02 | 0.00E+00                         | 3.60E-03          | 4.51E-03         | 5.35E-04          | 0.00E+00                |
| Kentucky | Jefferson County  | 21111 | U                    | 6.28E-02                                                                | 7.12E-02 | 8.67E-02 | 1.14E-01 | 1.17E-01 | 1.44E-01 | 1.76E-01 | 2.05E-01 | 2.23E-02                         | 8.57E-04          | 7.90E-02         | 1.46E-02          | 0.00E+00                |
| Kentucky | Jessamine County  | 21113 | U                    | 1.38E-02                                                                | 1.53E-02 | 1.87E-02 | 2.86E-02 | 2.89E-02 | 3.79E-02 | 4.31E-02 | 4.33E-02 | 6.57E-06                         | 9.28E-04          | 2.17E-02         | 6.30E-03          | 0.00E+00                |
| Kentucky | Johnson County    | 21115 | R                    | 1.10E-02                                                                | 1.13E-02 | 1.20E-02 | 1.29E-02 | 1.30E-02 | 1.37E-02 | 1.39E-02 | 1.39E-02 | 8.07E-07                         | 4.35E-03          | 7.88E-03         | 7.71E-04          | 0.00E+00                |
| Kentucky | Kenton County     | 21117 | U                    | 4.66E-02                                                                | 5.41E-02 | 6.82E-02 | 8.94E-02 | 8.71E-02 | 1.08E-01 | 1.39E-01 | 1.54E-01 | 5.20E-04                         | 1.34E-03          | 6.87E-02         | 1.66E-02          | 0.00E+00                |
| Kentucky | Knott County      | 21119 | R                    | 1.03E-02                                                                | 1.04E-02 | 1.08E-02 | 1.11E-02 | 1.20E-02 | 1.35E-02 | 1.38E-02 | 1.38E-02 | 0.00E+00                         | 5.32E-03          | 6.30E-03         | 3.84E-04          | 0.00E+00                |
| Kentucky | Knox County       | 21121 | R                    | 9.24E-03                                                                | 9.59E-03 | 1.01E-02 | 1.09E-02 | 1.33E-02 | 1.31E-02 | 1.54E-02 | 1.62E-02 | 0.00E+00                         | 3.94E-03          | 8.67E-03         | 6.33E-04          | 0.00E+00                |
| Kentucky | Larue County      | 21123 | R                    | 5.98E-03                                                                | 6.07E-03 | 6.33E-03 | 6.78E-03 | 6.87E-03 | 7.07E-03 | 7.24E-03 | 7.30E-03 | 7.49E-05                         | 1.64E-03          | 4.54E-03         | 6.20E-04          | 0.00E+00                |
| Kentucky | Laurel County     | 21125 | R                    | 1.29E-02                                                                | 1.31E-02 | 1.38E-02 | 1.50E-02 | 2.18E-02 | 2.74E-02 | 3.03E-02 | 4.02E-02 | 0.00E+00                         | 5.46E-03          | 1.49E-02         | 1.39E-03          | 0.00E+00                |
| Kentucky | Lawrence County   | 21127 | R                    | 8.45E-03                                                                | 8.50E-03 | 8.64E-03 | 9.10E-03 | 9.38E-03 | 9.58E-03 | 9.82E-03 | 9.90E-03 | 1.26E-05                         | 3.88E-03          | 5.01E-03         | 4.82E-04          | 0.00E+00                |
| Kentucky | Lee County        | 21129 | R                    | 8.43E-03                                                                | 8.49E-03 | 8.67E-03 | 8.96E-03 | 9.94E-03 | 1.15E-02 | 1.30E-02 | 1.35E-02 | 5.38E-06                         | 5.00E-03          | 4.56E-03         | 3.78E-04          | 0.00E+00                |
| Kentucky | Leslie County     | 21131 | R                    | 8.41E-03                                                                | 8.46E-03 | 8.60E-03 | 8.83E-03 | 9.42E-03 | 1.01E-02 | 1.09E-02 | 1.12E-02 | 0.00E+00                         | 4.99E-03          | 4.19E-03         | 2.46E-04          | 0.00E+00                |
| Kentucky | Letcher County    | 21133 | R                    | 2.96E-03                                                                | 5.91E-03 | 1.10E-02 | 1.25E-02 | 1.27E-02 | 1.30E-02 | 1.38E-02 | 1.43E-02 | 5.98E-07                         | 4.33E-03          | 7.90E-03         | 4.47E-04          | 0.00E+00                |
| Kentucky | Lewis County      | 21135 | R                    | 1.47E-03                                                                | 2.95E-03 | 7.37E-03 | 7.96E-03 | 8.55E-03 | 8.66E-03 | 9.12E-03 | 9.28E-03 | 4.34E-04                         | 3.89E-03          | 3.76E-03         | 4.72E-04          | 0.00E+00                |

| State    | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Kentucky | Lincoln County    | 21137 | R                    | 7.91E-03                                                                | 7.95E-03 | 8.07E-03 | 8.56E-03 | 8.63E-03 | 9.12E-03 | 9.38E-03 | 9.47E-03 | 4.71E-08                         | 1.51E-03          | 6.00E-03         | 1.13E-03          | 0.00E+00                |
| Kentucky | Livingston County | 21139 | R                    | 6.72E-03                                                                | 6.96E-03 | 7.69E-03 | 8.90E-03 | 9.63E-03 | 1.01E-02 | 1.09E-02 | 1.11E-02 | 4.47E-11                         | 3.70E-03          | 4.45E-03         | 1.48E-03          | 0.00E+00                |
| Kentucky | Logan County      | 21141 | R                    | 5.82E-03                                                                | 6.07E-03 | 7.02E-03 | 1.03E-02 | 1.20E-02 | 1.64E-02 | 1.78E-02 | 1.78E-02 | 0.00E+00                         | 3.04E-03          | 7.86E-03         | 1.12E-03          | 0.00E+00                |
| Kentucky | Lyon County       | 21143 | R                    | 7.03E-03                                                                | 7.25E-03 | 7.90E-03 | 8.99E-03 | 7.60E-03 | 1.01E-02 | 1.07E-02 | 1.09E-02 | 5.83E-11                         | 3.21E-03          | 3.33E-03         | 1.05E-03          | 0.00E+00                |
| Kentucky | McCracken County  | 21145 | R                    | 1.06E-02                                                                | 1.15E-02 | 1.52E-02 | 1.98E-02 | 1.97E-02 | 2.44E-02 | 3.16E-02 | 3.47E-02 | 0.00E+00                         | 2.23E-03          | 1.48E-02         | 2.74E-03          | 0.00E+00                |
| Kentucky | McCreary County   | 21147 | R                    | 1.11E-02                                                                | 1.12E-02 | 1.12E-02 | 1.18E-02 | 1.67E-02 | 1.49E-02 | 1.95E-02 | 2.10E-02 | 0.00E+00                         | 8.48E-03          | 7.54E-03         | 6.87E-04          | 0.00E+00                |
| Kentucky | McLean County     | 21149 | R                    | 5.41E-03                                                                | 5.58E-03 | 6.08E-03 | 6.78E-03 | 7.00E-03 | 7.62E-03 | 8.39E-03 | 8.64E-03 | 2.67E-11                         | 1.70E-03          | 4.59E-03         | 6.98E-04          | 0.00E+00                |
| Kentucky | Madison County    | 21151 | U                    | 9.28E-03                                                                | 9.60E-03 | 1.10E-02 | 1.64E-02 | 2.58E-02 | 4.06E-02 | 4.31E-02 | 4.97E-02 | 4.18E-06                         | 2.69E-03          | 1.86E-02         | 4.51E-03          | 0.00E+00                |
| Kentucky | Magoffin County   | 21153 | R                    | 7.97E-03                                                                | 8.02E-03 | 8.16E-03 | 9.31E-03 | 9.96E-03 | 1.07E-02 | 1.12E-02 | 1.13E-02 | 1.81E-06                         | 4.56E-03          | 5.08E-03         | 3.20E-04          | 0.00E+00                |
| Kentucky | Marion County     | 21155 | R                    | 5.65E-03                                                                | 5.84E-03 | 6.48E-03 | 7.02E-03 | 8.07E-03 | 8.62E-03 | 9.50E-03 | 9.57E-03 | 5.14E-05                         | 1.51E-03          | 5.75E-03         | 7.72E-04          | 0.00E+00                |
| Kentucky | Marshall County   | 21157 | R                    | 1.37E-02                                                                | 1.38E-02 | 1.41E-02 | 1.53E-02 | 1.89E-02 | 2.35E-02 | 2.69E-02 | 2.73E-02 | 0.00E+00                         | 4.78E-03          | 8.45E-03         | 5.67E-03          | 0.00E+00                |
| Kentucky | Martin County     | 21159 | R                    | 1.13E-02                                                                | 1.13E-02 | 1.13E-02 | 1.14E-02 | 1.53E-02 | 1.71E-02 | 2.04E-02 | 2.16E-02 | 1.02E-06                         | 6.52E-03          | 8.15E-03         | 5.95E-04          | 0.00E+00                |
| Kentucky | Mason County      | 21161 | R                    | 2.37E-03                                                                | 4.73E-03 | 9.47E-03 | 9.48E-03 | 1.95E-02 | 2.52E-02 | 3.05E-02 | 3.05E-02 | 1.79E-03                         | 4.51E-03          | 1.17E-02         | 1.48E-03          | 0.00E+00                |
| Kentucky | Meade County      | 21163 | R                    | 8.13E-03                                                                | 8.46E-03 | 9.44E-03 | 1.01E-02 | 1.48E-02 | 2.21E-02 | 3.81E-02 | 4.34E-02 | 5.82E-04                         | 3.07E-03          | 9.97E-03         | 1.18E-03          | 0.00E+00                |
| Kentucky | Menifee County    | 21165 | R                    | 8.51E-03                                                                | 8.62E-03 | 8.93E-03 | 9.45E-03 | 9.30E-03 | 9.96E-03 | 1.03E-02 | 1.04E-02 | 4.90E-04                         | 4.47E-03          | 3.86E-03         | 4.84E-04          | 0.00E+00                |
| Kentucky | Mercer County     | 21167 | R                    | 1.11E-02                                                                | 1.15E-02 | 1.26E-02 | 1.72E-02 | 1.66E-02 | 1.74E-02 | 2.06E-02 | 2.17E-02 | 6.12E-06                         | 1.53E-03          | 9.81E-03         | 5.25E-03          | 0.00E+00                |
| Kentucky | Metcalfe County   | 21169 | R                    | 6.24E-03                                                                | 6.30E-03 | 6.49E-03 | 6.80E-03 | 6.67E-03 | 6.90E-03 | 6.95E-03 | 6.97E-03 | 0.00E+00                         | 2.73E-03          | 3.55E-03         | 3.98E-04          | 0.00E+00                |
| Kentucky | Monroe County     | 21171 | R                    | 5.46E-03                                                                | 5.50E-03 | 5.63E-03 | 6.46E-03 | 7.79E-03 | 8.36E-03 | 1.04E-02 | 1.11E-02 | 0.00E+00                         | 3.18E-03          | 4.01E-03         | 5.99E-04          | 0.00E+00                |
| Kentucky | Montgomery County | 21173 | R                    | 1.23E-02                                                                | 1.24E-02 | 1.28E-02 | 1.93E-02 | 1.84E-02 | 2.06E-02 | 2.11E-02 | 2.13E-02 | 2.70E-03                         | 1.17E-03          | 1.29E-02         | 1.64E-03          | 0.00E+00                |
| Kentucky | Morgan County     | 21175 | R                    | 6.59E-03                                                                | 6.77E-03 | 7.29E-03 | 7.77E-03 | 8.47E-03 | 8.96E-03 | 9.88E-03 | 1.02E-02 | 2.61E-05                         | 4.52E-03          | 3.63E-03         | 2.92E-04          | 0.00E+00                |
| Kentucky | Muhlenberg County | 21177 | R                    | 7.07E-03                                                                | 7.35E-03 | 8.52E-03 | 9.73E-03 | 1.20E-02 | 1.41E-02 | 2.38E-02 | 2.39E-02 | 1.02E-10                         | 3.51E-03          | 7.73E-03         | 8.02E-04          | 0.00E+00                |
| Kentucky | Nelson County     | 21179 | R                    | 1.04E-02                                                                | 1.07E-02 | 1.10E-02 | 1.20E-02 | 1.83E-02 | 1.98E-02 | 2.75E-02 | 2.75E-02 | 2.61E-04                         | 3.64E-03          | 1.25E-02         | 1.89E-03          | 0.00E+00                |
| Kentucky | Nicholas County   | 21181 | R                    | 9.40E-03                                                                | 9.64E-03 | 1.04E-02 | 1.16E-02 | 1.25E-02 | 1.27E-02 | 1.35E-02 | 1.37E-02 | 4.24E-03                         | 8.94E-04          | 6.23E-03         | 1.15E-03          | 0.00E+00                |
| Kentucky | Ohio County       | 21183 | R                    | 6.97E-03                                                                | 7.05E-03 | 7.28E-03 | 8.07E-03 | 8.15E-03 | 8.60E-03 | 1.01E-02 | 1.09E-02 | 1.62E-09                         | 3.09E-03          | 4.40E-03         | 6.62E-04          | 0.00E+00                |
| Kentucky | Oldham County     | 21185 | U                    | 1.59E-02                                                                | 1.73E-02 | 2.19E-02 | 2.59E-02 | 2.66E-02 | 3.16E-02 | 3.36E-02 | 3.59E-02 | 1.25E-03                         | 1.09E-03          | 1.99E-02         | 4.36E-03          | 0.00E+00                |
| Kentucky | Owen County       | 21187 | R                    | 5.41E-03                                                                | 5.41E-03 | 5.44E-03 | 5.47E-03 | 6.08E-03 | 6.71E-03 | 7.45E-03 | 7.70E-03 | 9.91E-06                         | 1.82E-03          | 3.53E-03         | 7.21E-04          | 0.00E+00                |
| Kentucky | Owsley County     | 21189 | R                    | 7.01E-03                                                                | 7.04E-03 | 7.11E-03 | 7.24E-03 | 8.08E-03 | 8.00E-03 | 8.46E-03 | 8.61E-03 | 2.30E-08                         | 4.43E-03          | 3.41E-03         | 2.42E-04          | 0.00E+00                |
| Kentucky | Pendleton County  | 21191 | U                    | 9.62E-03                                                                | 9.76E-03 | 1.02E-02 | 1.09E-02 | 1.49E-02 | 1.55E-02 | 1.82E-02 | 1.91E-02 | 6.36E-05                         | 2.06E-03          | 1.05E-02         | 2.29E-03          | 0.00E+00                |
| Kentucky | Perry County      | 21193 | R                    | 1.13E-02                                                                | 1.14E-02 | 1.15E-02 | 1.26E-02 | 1.65E-02 | 1.39E-02 | 1.92E-02 | 2.42E-02 | 0.00E+00                         | 5.58E-03          | 1.03E-02         | 5.77E-04          | 0.00E+00                |
| Kentucky | Pike County       | 21195 | R                    | 1.21E-02                                                                | 1.24E-02 | 1.30E-02 | 1.39E-02 | 1.62E-02 | 1.51E-02 | 2.03E-02 | 3.64E-02 | 1.58E-08                         | 5.56E-03          | 9.92E-03         | 6.91E-04          | 0.00E+00                |
| Kentucky | Powell County     | 21197 | R                    | 1.06E-02                                                                | 1.06E-02 | 1.07E-02 | 1.07E-02 | 1.07E-02 | 1.07E-02 | 1.07E-02 | 1.07E-02 | 3.56E-04                         | 3.34E-03          | 6.08E-03         | 9.11E-04          | 0.00E+00                |
| Kentucky | Pulaski County    | 21199 | R                    | 1.06E-02                                                                | 1.07E-02 | 1.17E-02 | 1.25E-02 | 2.25E-02 | 2.45E-02 | 4.70E-02 | 4.79E-02 | 0.00E+00                         | 4.47E-03          | 1.57E-02         | 2.32E-03          | 0.00E+00                |
| Kentucky | Robertson County  | 21201 | R                    | 7.92E-03                                                                | 7.92E-03 | 7.92E-03 | 7.92E-03 | 7.92E-03 | 7.92E-03 | 7.92E-03 | 7.92E-03 | 6.63E-04                         | 2.48E-03          | 4.19E-03         | 5.87E-04          | 0.00E+00                |
| Kentucky | Rockcastle County | 21203 | R                    | 1.61E-03                                                                | 3.23E-03 | 8.07E-03 | 9.15E-03 | 1.11E-02 | 9.22E-03 | 1.23E-02 | 1.33E-02 | 0.00E+00                         | 3.87E-03          | 6.45E-03         | 8.15E-04          | 0.00E+00                |
| Kentucky | Rowan County      | 21205 | R                    | 1.19E-02                                                                | 1.19E-02 | 1.20E-02 | 1.64E-02 | 2.08E-02 | 2.23E-02 | 2.50E-02 | 2.59E-02 | 1.45E-03                         | 8.20E-03          | 9.92E-03         | 1.20E-03          | 0.00E+00                |
| Kentucky | Russell County    | 21207 | R                    | 7.81E-03                                                                | 7.98E-03 | 8.49E-03 | 8.92E-03 | 1.00E-02 | 9.69E-03 | 1.08E-02 | 1.12E-02 | 8.17E-07                         | 2.55E-03          | 6.48E-03         | 9.73E-04          | 0.00E+00                |
| Kentucky | Scott County      | 21209 | U                    | 9.38E-03                                                                | 1.02E-02 | 1.19E-02 | 1.26E-02 | 2.28E-02 | 2.40E-02 | 3.81E-02 | 4.34E-02 | 5.86E-06                         | 4.79E-04          | 1.74E-02         | 4.95E-03          | 0.00E+00                |
| Kentucky | Shelby County     | 21211 | R                    | 1.05E-02                                                                | 1.05E-02 | 1.06E-02 | 1.27E-02 | 1.60E-02 | 2.00E-02 | 2.22E-02 | 2.30E-02 | 2.51E-04                         | 1.25E-03          | 1.25E-02         | 1.95E-03          | 0.00E+00                |
| Kentucky | Simpson County    | 21213 | R                    | 8.63E-03                                                                | 9.27E-03 | 1.12E-02 | 1.39E-02 | 1.36E-02 | 1.56E-02 | 1.58E-02 | 1.59E-02 | 0.00E+00                         | 1.92E-03          | 9.92E-03         | 1.78E-03          | 0.00E+00                |
| Kentucky | Spencer County    | 21215 | R                    | 9.78E-03                                                                | 9.88E-03 | 1.02E-02 | 1.08E-02 | 1.08E-02 | 1.13E-02 | 1.16E-02 | 1.17E-02 | 4.96E-04                         | 1.44E-03          | 7.05E-03         | 1.84E-03          | 0.00E+00                |
| Kentucky | Taylor County     | 21217 | R                    | 7.36E-03                                                                | 7.38E-03 | 7.44E-03 | 9.30E-03 | 1.26E-02 | 1.38E-02 | 1.83E-02 | 1.98E-02 | 1.77E-05                         | 2.40E-03          | 8.95E-03         | 1.22E-03          | 0.00E+00                |
| Kentucky | Todd County       | 21219 | R                    | 4.87E-03                                                                | 4.93E-03 | 5.09E-03 | 5.59E-03 | 5.87E-03 | 6.20E-03 | 6.53E-03 | 6.64E-03 | 0.00E+00                         | 1.63E-03          | 3.71E-03         | 5.32E-04          | 0.00E+00                |
| Kentucky | Trigg County      | 21221 | R                    | 1.10E-02                                                                | 1.14E-02 | 1.24E-02 | 1.40E-02 | 1.30E-02 | 1.40E-02 | 1.40E-02 | 1.40E-02 | 3.42E-11                         | 6.16E-03          | 5.50E-03         | 1.31E-03          | 0.00E+00                |
| Kentucky | Trimble County    | 21223 | R                    | 9.15E-03                                                                | 9.16E-03 | 9.22E-03 | 9.30E-03 | 9.27E-03 | 9.39E-03 | 9.44E-03 | 9.46E-03 | 5.96E-05                         | 3.11E-03          | 5.29E-03         | 8.18E-04          | 0.00E+00                |
| Kentucky | Union County      | 21225 | R                    | 5.84E-03                                                                | 5.93E-03 | 6.18E-03 | 6.60E-03 | 6.35E-03 | 7.45E-03 | 7.97E-03 | 8.14E-03 | 4.16E-08                         | 1.02E-03          | 4.58E-03         | 7.43E-04          | 0.00E+00                |
| Kentucky | Warren County     | 21227 | U                    | 9.76E-03                                                                | 9.86E-03 | 1.32E-02 | 3.25E-02 | 3.44E-02 | 5.17E-02 | 7.04E-02 | 8.31E-02 | 0.00E+00                         | 3.19E-03          | 2.35E-02         | 7.75E-03          | 0.00E+00                |
| Kentucky | Washington County | 21229 | R                    | 4.86E-03                                                                | 4.91E-03 | 5.07E-03 | 5.34E-03 | 5.46E-03 | 6.39E-03 | 7.02E-03 | 7.23E-03 | 4.55E-05                         | 1.17E-03          | 3.59E-03         | 6.63E-04          | 0.00E+00                |
| Kentucky | Wayne County      | 21231 | R                    | 9.45E-03                                                                | 9.48E-03 | 9.69E-03 | 1.09E-02 | 1.70E-02 | 1.93E-02 | 2.37E-02 | 2.46E-02 | 0.00E+00                         | 7.39E-03          | 8.39E-03         | 1.20E-03          | 0.00E+00                |
| Kentucky | Webster County    | 21233 | R                    | 5.05E-03                                                                | 5.14E-03 | 5.39E-03 | 5.83E-03 | 5.79E-03 | 6.16E-03 | 6.21E-03 | 6.22E-03 | 2.41E-09                         | 1.37E-03          | 3.84E-03         | 5.80E-04          | 0.00E+00                |
| Kentucky | Whitley County    | 21235 | R                    | 9.96E-03                                                                | 1.03E-02 | 1.19E-02 | 1.68E-02 | 2.18E-02 | 2.46E-02 | 4.59E-02 | 5.61E-02 | 8.67E-09                         | 6.90E-03          | 1.38E-02         | 1.11E-03          | 0.00E+00                |
| Kentucky | Wolfe County      | 21237 | R                    | 7.89E-03                                                                | 7.90E-03 | 7.93E-03 | 7.98E-03 | 8.11E-03 | 8.13E-03 | 8.23E-03 | 8.26E-03 | 1.09E-05                         | 4.42E-03          | 3.37E-03         | 3.14E-04          | 0.00E+00                |
| Kentucky | Woodford County   | 21239 | U                    | 9.64E-03                                                                | 9.66E-03 | 9.71E-03 | 1.01E-02 | 1.52E-02 | 1.24E-02 | 1.59E-02 | 1.70E-02 | 1.35E-06                         | 5.67E-04          | 1.14E-02         | 3.32E-03          | 0.00E+00                |

| State     | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|           |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|           |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Louisiana | Statewide            | 22000 | -                    | 6.23E-03                                                                | 9.73E-03 | 1.99E-02 | 4.28E-02 | 4.62E-02 | 6.89E-02 | 1.00E-01 | 1.13E-01 | 1.24E-03                         | 6.00E-03          | 3.06E-02         | 8.31E-03          | 0.00E+00                |
| Louisiana | State Urban Counties | 22000 | U                    | 8.02E-03                                                                | 1.40E-02 | 3.02E-02 | 5.02E-02 | 5.37E-02 | 8.08E-02 | 1.06E-01 | 1.17E-01 | 1.61E-03                         | 3.64E-03          | 3.77E-02         | 1.08E-02          | 0.00E+00                |
| Louisiana | State Rural Counties | 22000 | R                    | 5.63E-03                                                                | 7.31E-03 | 1.08E-02 | 1.74E-02 | 2.64E-02 | 3.68E-02 | 5.46E-02 | 6.64E-02 | 2.77E-04                         | 1.22E-02          | 1.22E-02         | 1.79E-03          | 0.00E+00                |
| Louisiana | Acadia Parish        | 22001 | U                    | 8.05E-03                                                                | 8.23E-03 | 9.07E-03 | 1.08E-02 | 2.03E-02 | 2.83E-02 | 3.67E-02 | 3.76E-02 | 1.29E-05                         | 3.17E-03          | 1.40E-02         | 3.12E-03          | 0.00E+00                |
| Louisiana | Allen Parish         | 22003 | R                    | 6.46E-03                                                                | 6.72E-03 | 7.50E-03 | 8.15E-03 | 2.95E-02 | 2.80E-02 | 7.93E-02 | 9.63E-02 | 6.47E-05                         | 2.51E-02          | 3.99E-03         | 3.73E-04          | 0.00E+00                |
| Louisiana | Ascension Parish     | 22005 | U                    | 1.05E-02                                                                | 1.18E-02 | 1.52E-02 | 2.12E-02 | 2.49E-02 | 3.35E-02 | 3.56E-02 | 3.82E-02 | 4.93E-04                         | 5.97E-03          | 1.57E-02         | 2.73E-03          | 0.00E+00                |
| Louisiana | Assumption Parish    | 22007 | R                    | 6.55E-03                                                                | 6.99E-03 | 8.19E-03 | 1.48E-02 | 2.29E-02 | 3.85E-02 | 4.67E-02 | 4.78E-02 | 1.75E-04                         | 1.13E-02          | 9.88E-03         | 1.62E-03          | 0.00E+00                |
| Louisiana | Avoyelles Parish     | 22009 | R                    | 5.87E-03                                                                | 5.90E-03 | 6.46E-03 | 7.74E-03 | 8.77E-03 | 8.19E-03 | 1.28E-02 | 1.37E-02 | 2.21E-05                         | 2.71E-03          | 5.22E-03         | 8.27E-04          | 0.00E+00                |
| Louisiana | Beauregard Parish    | 22011 | R                    | 1.14E-02                                                                | 1.16E-02 | 1.23E-02 | 3.44E-02 | 3.02E-02 | 4.33E-02 | 5.12E-02 | 5.43E-02 | 1.98E-04                         | 2.04E-02          | 8.96E-03         | 6.38E-04          | 0.00E+00                |
| Louisiana | Bienville Parish     | 22013 | R                    | 9.14E-03                                                                | 9.24E-03 | 9.53E-03 | 9.87E-03 | 1.14E-02 | 9.96E-03 | 1.43E-02 | 1.57E-02 | 5.21E-10                         | 8.36E-03          | 2.65E-03         | 3.92E-04          | 0.00E+00                |
| Louisiana | Bossier Parish       | 22015 | U                    | 0.00E+00                                                                | 8.83E-03 | 1.82E-02 | 2.89E-02 | 2.88E-02 | 3.94E-02 | 4.21E-02 | 4.64E-02 | 6.31E-09                         | 6.74E-03          | 1.79E-02         | 4.11E-03          | 0.00E+00                |
| Louisiana | Caddo Parish         | 22017 | U                    | 1.68E-03                                                                | 1.79E-02 | 3.71E-02 | 4.55E-02 | 4.42E-02 | 5.41E-02 | 5.98E-02 | 6.71E-02 | 2.50E-08                         | 5.45E-03          | 3.12E-02         | 7.52E-03          | 0.00E+00                |
| Louisiana | Calcasieu Parish     | 22019 | U                    | 1.63E-03                                                                | 1.16E-02 | 2.30E-02 | 2.97E-02 | 3.28E-02 | 4.37E-02 | 5.02E-02 | 6.25E-02 | 3.61E-03                         | 5.35E-03          | 1.86E-02         | 5.24E-03          | 0.00E+00                |
| Louisiana | Caldwell Parish      | 22021 | R                    | 1.72E-02                                                                | 1.77E-02 | 1.92E-02 | 2.18E-02 | 2.18E-02 | 2.39E-02 | 2.51E-02 | 2.55E-02 | 2.10E-13                         | 1.59E-02          | 5.27E-03         | 6.12E-04          | 0.00E+00                |
| Louisiana | Cameron Parish       | 22023 | R                    | 1.99E-03                                                                | 2.02E-03 | 2.11E-03 | 2.26E-03 | 2.25E-03 | 2.41E-03 | 2.50E-03 | 2.53E-03 | 3.61E-04                         | 1.49E-04          | 8.74E-04         | 8.66E-04          | 0.00E+00                |
| Louisiana | Catahoula Parish     | 22025 | R                    | 9.31E-03                                                                | 9.55E-03 | 1.03E-02 | 1.15E-02 | 1.80E-02 | 2.46E-02 | 3.25E-02 | 3.51E-02 | 2.86E-12                         | 1.30E-02          | 4.22E-03         | 7.83E-04          | 0.00E+00                |
| Louisiana | Claiborne Parish     | 22027 | R                    | 9.63E-03                                                                | 9.68E-03 | 9.81E-03 | 1.09E-02 | 3.93E-02 | 6.21E-02 | 7.70E-02 | 8.20E-02 | 1.38E-11                         | 3.43E-02          | 4.53E-03         | 5.14E-04          | 0.00E+00                |
| Louisiana | Concordia Parish     | 22029 | R                    | 9.88E-03                                                                | 1.02E-02 | 1.13E-02 | 1.97E-02 | 3.04E-02 | 4.03E-02 | 4.54E-02 | 4.71E-02 | 4.45E-06                         | 2.08E-02          | 8.56E-03         | 1.06E-03          | 0.00E+00                |
| Louisiana | De Soto Parish       | 22031 | R                    | 1.13E-02                                                                | 1.17E-02 | 1.36E-02 | 1.51E-02 | 2.85E-02 | 4.65E-02 | 5.61E-02 | 5.72E-02 | 1.12E-07                         | 2.03E-02          | 7.26E-03         | 9.21E-04          | 0.00E+00                |
| Louisiana | East Baton Rouge Par | 22033 | U                    | 3.43E-02                                                                | 4.03E-02 | 4.99E-02 | 5.78E-02 | 5.83E-02 | 6.90E-02 | 8.23E-02 | 8.88E-02 | 2.31E-03                         | 4.49E-03          | 4.17E-02         | 9.76E-03          | 0.00E+00                |
| Louisiana | East Carroll Parish  | 22035 | U                    | 6.52E-03                                                                | 7.13E-03 | 8.94E-03 | 1.20E-02 | 1.82E-02 | 2.31E-02 | 2.98E-02 | 3.21E-02 | 0.00E+00                         | 1.24E-02          | 3.85E-03         | 1.99E-03          | 0.00E+00                |
| Louisiana | East Feliciana Paris | 22037 | R                    | 1.29E-02                                                                | 1.32E-02 | 1.41E-02 | 1.54E-02 | 1.72E-02 | 1.88E-02 | 2.33E-02 | 2.48E-02 | 1.00E-03                         | 6.95E-03          | 8.04E-03         | 1.26E-03          | 0.00E+00                |
| Louisiana | Evangeline Parish    | 22039 | R                    | 5.29E-03                                                                | 5.41E-03 | 7.19E-03 | 1.18E-02 | 1.57E-02 | 2.07E-02 | 3.44E-02 | 3.44E-02 | 9.28E-06                         | 4.63E-03          | 1.01E-02         | 8.97E-04          | 0.00E+00                |
| Louisiana | Franklin Parish      | 22041 | R                    | 7.35E-03                                                                | 7.41E-03 | 7.76E-03 | 8.54E-03 | 1.78E-02 | 2.42E-02 | 2.94E-02 | 2.94E-02 | 2.37E-12                         | 6.82E-03          | 1.02E-02         | 8.07E-04          | 0.00E+00                |
| Louisiana | Grant Parish         | 22043 | R                    | 9.00E-03                                                                | 9.21E-03 | 9.84E-03 | 1.11E-02 | 1.32E-02 | 1.31E-02 | 1.49E-02 | 1.55E-02 | 3.11E-12                         | 6.87E-03          | 5.25E-03         | 1.04E-03          | 0.00E+00                |
| Louisiana | Iberia Parish        | 22045 | U                    | 1.47E-02                                                                | 1.72E-02 | 2.21E-02 | 3.14E-02 | 3.33E-02 | 4.66E-02 | 5.39E-02 | 6.04E-02 | 5.69E-06                         | 7.42E-03          | 1.70E-02         | 8.93E-03          | 0.00E+00                |
| Louisiana | Iberville Parish     | 22047 | R                    | 1.16E-02                                                                | 1.34E-02 | 1.68E-02 | 2.00E-02 | 2.51E-02 | 2.18E-02 | 2.97E-02 | 3.42E-02 | 5.66E-03                         | 9.46E-03          | 8.53E-03         | 1.40E-03          | 0.00E+00                |
| Louisiana | Jackson Parish       | 22049 | R                    | 1.12E-02                                                                | 1.13E-02 | 1.18E-02 | 2.25E-02 | 2.84E-02 | 4.92E-02 | 4.96E-02 | 4.97E-02 | 4.73E-08                         | 2.20E-02          | 5.73E-03         | 6.10E-04          | 0.00E+00                |
| Louisiana | Jefferson Parish     | 22051 | U                    | 3.66E-02                                                                | 4.34E-02 | 5.99E-02 | 7.89E-02 | 7.74E-02 | 9.82E-02 | 1.12E-01 | 1.22E-01 | 1.68E-03                         | 1.14E-04          | 5.50E-02         | 2.06E-02          | 0.00E+00                |
| Louisiana | Jefferson Davis Pari | 22053 | U                    | 3.56E-03                                                                | 3.58E-03 | 4.10E-03 | 1.01E-02 | 1.06E-02 | 1.79E-02 | 2.15E-02 | 2.35E-02 | 8.42E-05                         | 2.07E-03          | 6.43E-03         | 2.06E-03          | 0.00E+00                |
| Louisiana | Lafayette Parish     | 22055 | U                    | 2.92E-02                                                                | 3.28E-02 | 4.11E-02 | 5.28E-02 | 5.86E-02 | 7.06E-02 | 7.78E-02 | 9.37E-02 | 2.33E-06                         | 1.52E-03          | 4.54E-02         | 1.17E-02          | 0.00E+00                |
| Louisiana | Lafourche Parish     | 22057 | R                    | 5.11E-03                                                                | 7.68E-03 | 1.11E-02 | 1.66E-02 | 1.93E-02 | 2.61E-02 | 4.49E-02 | 5.35E-02 | 3.70E-04                         | 5.69E-03          | 1.08E-02         | 2.42E-03          | 0.00E+00                |
| Louisiana | La Salle Parish      | 22059 | R                    | 1.35E-02                                                                | 1.36E-02 | 1.40E-02 | 1.48E-02 | 2.64E-02 | 2.99E-02 | 3.89E-02 | 4.20E-02 | 6.05E-12                         | 2.21E-02          | 3.69E-03         | 5.48E-04          | 0.00E+00                |
| Louisiana | Lincoln Parish       | 22061 | U                    | 1.13E-02                                                                | 1.20E-02 | 1.49E-02 | 2.50E-02 | 2.51E-02 | 3.35E-02 | 3.64E-02 | 4.35E-02 | 2.03E-09                         | 1.36E-02          | 8.73E-03         | 2.77E-03          | 0.00E+00                |
| Louisiana | Livingstone Parish   | 22063 | U                    | 1.21E-02                                                                | 1.46E-02 | 2.09E-02 | 2.86E-02 | 3.07E-02 | 4.44E-02 | 5.10E-02 | 5.53E-02 | 5.35E-04                         | 9.83E-03          | 1.74E-02         | 2.90E-03          | 0.00E+00                |
| Louisiana | Madison Parish       | 22065 | U                    | 4.97E-03                                                                | 5.07E-03 | 5.37E-03 | 1.82E-02 | 1.82E-02 | 1.94E-02 | 2.59E-02 | 2.80E-02 | 0.00E+00                         | 9.53E-03          | 5.24E-03         | 3.47E-03          | 0.00E+00                |
| Louisiana | Morehouse Parish     | 22067 | R                    | 1.34E-02                                                                | 1.36E-02 | 1.97E-02 | 2.93E-02 | 4.40E-02 | 6.85E-02 | 6.93E-02 | 7.02E-02 | 2.29E-14                         | 2.60E-02          | 1.69E-02         | 1.12E-03          | 0.00E+00                |
| Louisiana | Natchitoches Parish  | 22069 | R                    | 9.74E-03                                                                | 9.74E-03 | 1.50E-02 | 1.60E-02 | 2.81E-02 | 2.74E-02 | 4.46E-02 | 6.28E-02 | 6.28E-11                         | 1.75E-02          | 9.79E-03         | 7.92E-04          | 0.00E+00                |
| Louisiana | Orleans Parish       | 22071 | U                    | 4.01E-02                                                                | 5.26E-02 | 7.11E-02 | 9.51E-02 | 9.15E-02 | 1.09E-01 | 1.27E-01 | 1.36E-01 | 3.98E-04                         | 6.27E-05          | 7.41E-02         | 1.69E-02          | 0.00E+00                |
| Louisiana | Ouachita Parish      | 22073 | R                    | 2.14E-02                                                                | 2.22E-02 | 3.44E-02 | 4.47E-02 | 4.22E-02 | 5.52E-02 | 6.43E-02 | 6.77E-02 | 1.58E-11                         | 7.82E-03          | 3.06E-02         | 3.72E-03          | 0.00E+00                |
| Louisiana | Plaquemines Parish   | 22075 | U                    | 7.14E-04                                                                | 1.43E-03 | 3.00E-03 | 7.55E-03 | 1.18E-02 | 1.56E-02 | 1.66E-02 | 1.83E-02 | 1.41E-04                         | 1.22E-05          | 4.26E-03         | 7.40E-03          | 0.00E+00                |
| Louisiana | Pointe Coupee Parish | 22077 | R                    | 7.59E-03                                                                | 9.17E-03 | 1.25E-02 | 1.47E-02 | 1.53E-02 | 1.98E-02 | 2.64E-02 | 2.91E-02 | 1.84E-03                         | 5.54E-03          | 6.79E-03         | 1.17E-03          | 0.00E+00                |
| Louisiana | Rapides Parish       | 22079 | U                    | 1.42E-02                                                                | 1.49E-02 | 2.08E-02 | 3.07E-02 | 3.06E-02 | 4.38E-02 | 4.75E-02 | 5.65E-02 | 2.15E-09                         | 5.38E-03          | 2.03E-02         | 4.92E-03          | 0.00E+00                |
| Louisiana | Red River Parish     | 22081 | R                    | 9.06E-03                                                                | 9.25E-03 | 9.83E-03 | 1.08E-02 | 1.75E-02 | 1.82E-02 | 2.27E-02 | 2.42E-02 | 1.37E-12                         | 1.18E-02          | 5.04E-03         | 6.35E-04          | 0.00E+00                |
| Louisiana | Richland Parish      | 22083 | R                    | 5.80E-03                                                                | 5.97E-03 | 6.37E-03 | 6.53E-03 | 1.01E-02 | 1.25E-02 | 1.49E-02 | 1.50E-02 | 4.25E-13                         | 3.62E-03          | 5.78E-03         | 6.56E-04          | 0.00E+00                |
| Louisiana | Sabine Parish        | 22085 | R                    | 7.52E-03                                                                | 8.25E-03 | 9.40E-03 | 9.75E-03 | 1.85E-02 | 2.47E-02 | 4.25E-02 | 4.76E-02 | 1.65E-07                         | 1.43E-02          | 3.39E-03         | 7.91E-04          | 0.00E+00                |
| Louisiana | St. Bernard Parish   | 22087 | U                    | 0.00E+00                                                                | 4.80E-03 | 3.39E-02 | 6.12E-02 | 5.95E-02 | 7.87E-02 | 9.26E-02 | 1.02E-01 | 1.94E-04                         | 6.19E-05          | 3.92E-02         | 2.00E-02          | 0.00E+00                |
| Louisiana | St. Charles Parish   | 22089 | U                    | 2.37E-02                                                                | 2.84E-02 | 3.35E-02 | 4.85E-02 | 4.95E-02 | 5.80E-02 | 7.08E-02 | 8.93E-02 | 2.63E-02                         | 2.07E-03          | 1.42E-02         | 6.97E-03          | 0.00E+00                |
| Louisiana | St. Helena Parish    | 22091 | R                    | 1.41E-02                                                                | 1.42E-02 | 1.44E-02 | 1.47E-02 | 1.48E-02 | 1.51E-02 | 1.53E-02 | 1.54E-02 | 8.95E-05                         | 8.46E-03          | 5.60E-03         | 6.86E-04          | 0.00E+00                |
| Louisiana | St. James Parish     | 22093 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 9.35E-03 | 2.27E-02 | 2.03E-02 | 3.55E-02 | 3.69E-02 | 1.96E-03                         | 9.08E-03          | 9.63E-03         | 1.98E-03          | 0.00E+00                |
| Louisiana | St. John the Baptist | 22095 | U                    | 2.23E-02                                                                | 2.35E-02 | 2.78E-02 | 3.72E-02 | 4.48E-02 | 4.81E-02 | 6.82E-02 | 8.29E-02 | 2.46E-02                         | 5.23E-03          | 7.84E-03         | 7.19E-03          | 0.00E+00                |
| Louisiana | St. Landry Parish    | 22097 | U                    | 9.69E-03                                                                | 1.09E-02 | 1.25E-02 | 1.96E-02 | 2.19E-02 | 2.98E-02 | 3.65E-02 | 3.78E-02 | 2.34E-05                         | 2.37E-03          | 1.66E-02         | 2.88E-03          | 0.00E+00                |

| State           | County               | FIPS         | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |                 |                 |                 |                 |                 |                 |                 |                                  |                      |                  |                   |                         |
|-----------------|----------------------|--------------|----------------------|-------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------------------|----------------------|------------------|-------------------|-------------------------|
|                 |                      |              |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |                 |                 |                 |                 |                 |                 |                 | Contribution to Average from ... |                      |                  |                   |                         |
|                 |                      |              |                      | 5th                                                                     | 10th            | 25th            | Median          | Average         | 75th            | 90th            | 95th            | Major                            | Area<br>and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Louisiana       | St. Martin Parish    | 22099        | U                    | 9.72E-03                                                                | 1.29E-02        | 1.97E-02        | 2.72E-02        | 3.03E-02        | 3.99E-02        | 4.34E-02        | 5.27E-02        | 1.45E-05                         | 1.30E-02             | 1.43E-02         | 3.01E-03          | 0.00E+00                |
| Louisiana       | St. Mary Parish      | 22101        | U                    | 0.00E+00                                                                | 4.77E-03        | 1.27E-02        | 2.08E-02        | 2.60E-02        | 3.42E-02        | 4.36E-02        | 4.59E-02        | 2.69E-06                         | 1.47E-03             | 1.45E-02         | 1.00E-02          | 0.00E+00                |
| Louisiana       | St. Tammany Parish   | 22103        | U                    | 1.66E-02                                                                | 1.98E-02        | 2.71E-02        | 3.75E-02        | 3.52E-02        | 4.91E-02        | 5.60E-02        | 5.94E-02        | 6.49E-05                         | 5.74E-03             | 2.05E-02         | 8.95E-03          | 0.00E+00                |
| Louisiana       | Tangipahoa Parish    | 22105        | R                    | 1.40E-02                                                                | 1.51E-02        | 1.59E-02        | 2.02E-02        | 2.25E-02        | 2.83E-02        | 3.37E-02        | 3.85E-02        | 1.85E-04                         | 6.99E-03             | 1.37E-02         | 1.64E-03          | 0.00E+00                |
| Louisiana       | Tensas Parish        | 22107        | R                    | 4.64E-03                                                                | 4.79E-03        | 5.25E-03        | 6.01E-03        | 6.28E-03        | 6.78E-03        | 7.24E-03        | 7.39E-03        | 0.00E+00                         | 3.79E-03             | 2.02E-03         | 4.73E-04          | 0.00E+00                |
| Louisiana       | Terrebonne Parish    | 22109        | R                    | 6.13E-03                                                                | 7.56E-03        | 9.46E-03        | 1.76E-02        | 3.21E-02        | 3.69E-02        | 4.01E-02        | 5.72E-02        | 7.19E-05                         | 8.25E-03             | 1.89E-02         | 4.86E-03          | 0.00E+00                |
| Louisiana       | Union Parish         | 22111        | R                    | 1.16E-02                                                                | 1.22E-02        | 1.36E-02        | 1.42E-02        | 2.32E-02        | 1.71E-02        | 4.38E-02        | 5.67E-02        | 2.31E-11                         | 1.76E-02             | 4.99E-03         | 6.23E-04          | 0.00E+00                |
| Louisiana       | Vermilion Parish     | 22113        | R                    | 2.95E-03                                                                | 4.95E-03        | 9.28E-03        | 1.35E-02        | 2.12E-02        | 2.41E-02        | 4.06E-02        | 4.51E-02        | 8.36E-08                         | 1.96E-03             | 1.61E-02         | 3.17E-03          | 0.00E+00                |
| Louisiana       | Vernon Parish        | 22115        | R                    | 1.00E-02                                                                | 1.01E-02        | 1.26E-02        | 1.32E-02        | 2.28E-02        | 3.06E-02        | 5.77E-02        | 6.18E-02        | 1.09E-05                         | 1.64E-02             | 5.98E-03         | 4.57E-04          | 0.00E+00                |
| Louisiana       | Washington Parish    | 22117        | R                    | 1.35E-02                                                                | 1.39E-02        | 1.54E-02        | 2.09E-02        | 2.54E-02        | 2.62E-02        | 5.61E-02        | 7.15E-02        | 7.79E-06                         | 1.42E-02             | 1.00E-02         | 1.14E-03          | 0.00E+00                |
| Louisiana       | Webster Parish       | 22119        | U                    | 8.49E-03                                                                | 9.27E-03        | 1.01E-02        | 1.61E-02        | 2.63E-02        | 3.77E-02        | 6.81E-02        | 6.87E-02        | 1.13E-08                         | 1.47E-02             | 9.66E-03         | 1.87E-03          | 0.00E+00                |
| Louisiana       | West Baton Rouge Par | 22121        | U                    | 1.99E-02                                                                | 2.31E-02        | 3.27E-02        | 4.00E-02        | 4.25E-02        | 4.02E-02        | 4.75E-02        | 4.99E-02        | 1.30E-02                         | 7.70E-03             | 1.82E-02         | 3.57E-03          | 0.00E+00                |
| Louisiana       | West Carroll Parish  | 22123        | R                    | 4.78E-03                                                                | 4.80E-03        | 4.87E-03        | 4.98E-03        | 4.94E-03        | 5.00E-03        | 5.01E-03        | 5.01E-03        | 0.00E+00                         | 1.18E-03             | 3.41E-03         | 3.54E-04          | 0.00E+00                |
| Louisiana       | West Feliciana Paris | 22125        | R                    | 9.90E-03                                                                | 1.02E-02        | 1.12E-02        | 1.27E-02        | 1.20E-02        | 1.43E-02        | 1.52E-02        | 1.55E-02        | 1.01E-03                         | 6.55E-03             | 3.92E-03         | 4.75E-04          | 0.00E+00                |
| Louisiana       | Winn Parish          | 22127        | R                    | 3.33E-02                                                                | 3.44E-02        | 3.76E-02        | 1.38E-01        | 1.20E-01        | 2.36E-01        | 2.36E-01        | 2.36E-01        | 1.93E-09                         | 1.11E-01             | 8.65E-03         | 7.75E-04          | 0.00E+00                |
| <b>Maine</b>    | <b>Statewide</b>     | <b>23000</b> | <b>-</b>             | <b>4.04E-03</b>                                                         | <b>5.88E-03</b> | <b>1.02E-02</b> | <b>1.78E-02</b> | <b>2.62E-02</b> | <b>3.13E-02</b> | <b>5.50E-02</b> | <b>6.81E-02</b> | <b>0.00E+00</b>                  | <b>5.60E-03</b>      | <b>1.26E-02</b>  | <b>7.94E-03</b>   | <b>0.00E+00</b>         |
| Maine           | State Urban Counties | 23000        | U                    | 1.19E-02                                                                | 1.55E-02        | 1.83E-02        | 2.12E-02        | 2.81E-02        | 3.36E-02        | 5.86E-02        | 6.98E-02        | 0.00E+00                         | 4.06E-03             | 1.55E-02         | 8.60E-03          | 0.00E+00                |
| Maine           | State Rural Counties | 23000        | R                    | 3.29E-03                                                                | 5.51E-03        | 9.37E-03        | 1.46E-02        | 2.56E-02        | 3.11E-02        | 5.16E-02        | 6.73E-02        | 0.00E+00                         | 6.03E-03             | 1.18E-02         | 7.76E-03          | 0.00E+00                |
| Maine           | Androscoggin County  | 23001        | U                    | 1.17E-02                                                                | 1.20E-02        | 1.79E-02        | 2.85E-02        | 3.42E-02        | 5.64E-02        | 7.01E-02        | 7.13E-02        | 0.00E+00                         | 4.41E-03             | 2.32E-02         | 6.59E-03          | 0.00E+00                |
| Maine           | Aroostook County     | 23003        | R                    | 5.17E-03                                                                | 5.26E-03        | 5.77E-03        | 8.88E-03        | 1.25E-02        | 1.67E-02        | 1.99E-02        | 2.07E-02        | 0.00E+00                         | 8.71E-03             | 3.19E-03         | 5.76E-04          | 0.00E+00                |
| Maine           | Cumberland County    | 23005        | R                    | 2.53E-02                                                                | 2.85E-02        | 3.16E-02        | 4.49E-02        | 4.80E-02        | 6.56E-02        | 9.08E-02        | 1.02E-01        | 0.00E+00                         | 2.82E-03             | 2.60E-02         | 1.92E-02          | 0.00E+00                |
| Maine           | Franklin County      | 23007        | R                    | 4.39E-03                                                                | 5.07E-03        | 5.45E-03        | 7.65E-03        | 1.00E-02        | 1.22E-02        | 1.32E-02        | 1.36E-02        | 0.00E+00                         | 5.77E-03             | 3.21E-03         | 1.02E-03          | 0.00E+00                |
| Maine           | Hancock County       | 23009        | R                    | 5.00E-03                                                                | 7.15E-03        | 8.77E-03        | 1.02E-02        | 1.40E-02        | 1.88E-02        | 1.93E-02        | 2.19E-02        | 0.00E+00                         | 5.31E-03             | 3.43E-03         | 5.27E-03          | 0.00E+00                |
| Maine           | Kennebec County      | 23011        | R                    | 1.13E-02                                                                | 1.16E-02        | 1.37E-02        | 1.63E-02        | 2.21E-02        | 2.68E-02        | 3.89E-02        | 5.37E-02        | 0.00E+00                         | 5.40E-03             | 9.35E-03         | 7.36E-03          | 0.00E+00                |
| Maine           | Knox County          | 23013        | R                    | 0.00E+00                                                                | 4.54E-04        | 6.42E-03        | 9.78E-03        | 1.38E-02        | 1.53E-02        | 1.94E-02        | 2.41E-02        | 0.00E+00                         | 3.56E-03             | 5.68E-03         | 4.55E-03          | 0.00E+00                |
| Maine           | Lincoln County       | 23015        | R                    | 1.38E-03                                                                | 3.11E-03        | 8.89E-03        | 1.08E-02        | 1.20E-02        | 1.21E-02        | 2.08E-02        | 2.24E-02        | 0.00E+00                         | 3.50E-03             | 4.80E-03         | 3.72E-03          | 0.00E+00                |
| Maine           | Oxford County        | 23017        | R                    | 0.00E+00                                                                | 0.00E+00        | 9.57E-03        | 1.38E-02        | 2.23E-02        | 2.50E-02        | 3.34E-02        | 3.52E-02        | 0.00E+00                         | 8.28E-03             | 4.70E-03         | 9.31E-03          | 0.00E+00                |
| Maine           | Penobscot County     | 23019        | R                    | 8.59E-03                                                                | 9.05E-03        | 1.15E-02        | 1.60E-02        | 2.81E-02        | 3.27E-02        | 5.39E-02        | 6.49E-02        | 0.00E+00                         | 1.03E-02             | 1.43E-02         | 3.48E-03          | 0.00E+00                |
| Maine           | Piscataquis County   | 23021        | R                    | 6.30E-03                                                                | 6.51E-03        | 7.32E-03        | 1.08E-02        | 1.37E-02        | 1.35E-02        | 2.60E-02        | 2.68E-02        | 0.00E+00                         | 1.11E-02             | 1.60E-03         | 9.16E-04          | 0.00E+00                |
| Maine           | Sagadahoc County     | 23023        | R                    | 1.15E-02                                                                | 1.17E-02        | 1.26E-02        | 1.64E-02        | 2.06E-02        | 2.62E-02        | 3.29E-02        | 3.82E-02        | 0.00E+00                         | 6.22E-03             | 9.73E-03         | 4.60E-03          | 0.00E+00                |
| Maine           | Somerset County      | 23025        | R                    | 3.11E-03                                                                | 5.25E-03        | 6.15E-03        | 9.04E-03        | 1.03E-02        | 1.18E-02        | 1.33E-02        | 1.41E-02        | 0.00E+00                         | 6.02E-03             | 3.32E-03         | 9.93E-04          | 0.00E+00                |
| Maine           | Waldo County         | 23027        | R                    | 6.61E-03                                                                | 7.05E-03        | 8.03E-03        | 8.67E-03        | 9.53E-03        | 1.09E-02        | 1.28E-02        | 1.30E-02        | 0.00E+00                         | 4.07E-03             | 4.00E-03         | 1.46E-03          | 0.00E+00                |
| Maine           | Washington County    | 23029        | R                    | 2.47E-03                                                                | 3.62E-03        | 5.42E-03        | 6.08E-03        | 1.05E-02        | 1.28E-02        | 2.14E-02        | 2.29E-02        | 0.00E+00                         | 7.65E-03             | 1.70E-03         | 1.12E-03          | 0.00E+00                |
| Maine           | York County          | 23031        | U                    | 1.53E-02                                                                | 1.64E-02        | 1.83E-02        | 2.04E-02        | 2.42E-02        | 2.34E-02        | 2.62E-02        | 3.46E-02        | 0.00E+00                         | 3.84E-03             | 1.05E-02         | 9.88E-03          | 0.00E+00                |
| <b>Maryland</b> | <b>Statewide</b>     | <b>24000</b> | <b>-</b>             | <b>1.41E-02</b>                                                         | <b>1.99E-02</b> | <b>4.03E-02</b> | <b>6.49E-02</b> | <b>7.82E-02</b> | <b>9.73E-02</b> | <b>1.72E-01</b> | <b>2.17E-01</b> | <b>1.83E-06</b>                  | <b>3.05E-03</b>      | <b>6.14E-02</b>  | <b>1.38E-02</b>   | <b>0.00E+00</b>         |
| Maryland        | State Urban Counties | 24000        | U                    | 2.10E-02                                                                | 2.86E-02        | 4.84E-02        | 6.98E-02        | 8.32E-02        | 1.07E-01        | 1.82E-01        | 2.22E-01        | 8.55E-07                         | 2.43E-03             | 6.60E-02         | 1.47E-02          | 0.00E+00                |
| Maryland        | State Rural Counties | 24000        | R                    | 8.18E-03                                                                | 9.25E-03        | 1.19E-02        | 1.80E-02        | 2.67E-02        | 3.33E-02        | 5.92E-02        | 6.74E-02        | 1.21E-05                         | 9.51E-03             | 1.35E-02         | 3.73E-03          | 0.00E+00                |
| Maryland        | Allegany County      | 24001        | R                    | 1.45E-02                                                                | 1.56E-02        | 1.75E-02        | 2.99E-02        | 3.82E-02        | 6.36E-02        | 7.30E-02        | 7.71E-02        | 1.82E-09                         | 1.42E-02             | 2.17E-02         | 2.44E-03          | 0.00E+00                |
| Maryland        | Anne Arundel County  | 24003        | U                    | 2.84E-02                                                                | 3.81E-02        | 5.06E-02        | 6.73E-02        | 7.07E-02        | 8.49E-02        | 1.14E-01        | 1.33E-01        | 2.41E-07                         | 3.17E-03             | 4.56E-02         | 2.19E-02          | 0.00E+00                |
| Maryland        | Baltimore County     | 24005        | U                    | 3.99E-02                                                                | 4.90E-02        | 6.39E-02        | 7.88E-02        | 8.47E-02        | 9.70E-02        | 1.25E-01        | 1.47E-01        | 1.53E-09                         | 2.67E-03             | 6.67E-02         | 1.54E-02          | 0.00E+00                |
| Maryland        | Calvert County       | 24009        | U                    | 6.82E-03                                                                | 1.26E-02        | 1.47E-02        | 1.78E-02        | 1.90E-02        | 2.42E-02        | 2.48E-02        | 2.99E-02        | 0.00E+00                         | 2.99E-03             | 1.29E-02         | 3.07E-03          | 0.00E+00                |
| Maryland        | Caroline County      | 24011        | R                    | 7.60E-03                                                                | 7.85E-03        | 8.53E-03        | 9.29E-03        | 9.12E-03        | 9.78E-03        | 1.01E-02        | 1.03E-02        | 8.67E-05                         | 2.29E-03             | 5.41E-03         | 1.34E-03          | 0.00E+00                |
| Maryland        | Carroll County       | 24013        | U                    | 1.76E-02                                                                | 1.81E-02        | 2.29E-02        | 2.89E-02        | 3.31E-02        | 3.79E-02        | 4.88E-02        | 6.12E-02        | 1.80E-15                         | 3.62E-03             | 2.29E-02         | 6.58E-03          | 0.00E+00                |
| Maryland        | Cecil County         | 24015        | U                    | 1.79E-02                                                                | 1.84E-02        | 2.01E-02        | 2.27E-02        | 2.84E-02        | 3.38E-02        | 3.62E-02        | 4.56E-02        | 2.06E-05                         | 4.14E-03             | 2.07E-02         | 3.52E-03          | 0.00E+00                |
| Maryland        | Charles County       | 24017        | U                    | 1.44E-02                                                                | 1.54E-02        | 1.84E-02        | 2.37E-02        | 2.75E-02        | 3.05E-02        | 3.62E-02        | 3.82E-02        | 0.00E+00                         | 5.11E-03             | 1.66E-02         | 5.83E-03          | 0.00E+00                |
| Maryland        | Dorchester County    | 24019        | R                    | 8.59E-03                                                                | 9.01E-03        | 9.52E-03        | 1.02E-02        | 2.95E-02        | 5.30E-02        | 5.71E-02        | 6.40E-02        | 9.22E-07                         | 1.81E-02             | 8.18E-03         | 3.23E-03          | 0.00E+00                |
| Maryland        | Frederick County     | 24021        | U                    | 1.77E-02                                                                | 2.10E-02        | 2.36E-02        | 2.69E-02        | 3.55E-02        | 3.77E-02        | 7.80E-02        | 9.59E-02        | 1.03E-12                         | 3.74E-03             | 2.37E-02         | 8.08E-03          | 0.00E+00                |
| Maryland        | Garrett County       | 24023        | R                    | 9.44E-03                                                                | 9.63E-03        | 1.01E-02        | 1.06E-02        | 1.37E-02        | 1.51E-02        | 1.81E-02        | 1.83E-02        | 3.03E-08                         | 8.50E-03             | 4.52E-03         | 6.52E-04          | 0.00E+00                |
| Maryland        | Harford County       | 24025        | U                    | 2.13E-02                                                                | 2.60E-02        | 2.97E-02        | 3.66E-02        | 3.96E-02        | 4.45E-02        | 5.28E-02        | 5.83E-02        | 1.37E-07                         | 3.90E-03             | 2.84E-02         | 7.32E-03          | 0.00E+00                |
| Maryland        | Howard County        | 24027        | U                    | 3.74E-02                                                                | 4.22E-02        | 5.24E-02        | 5.90E-02        | 6.38E-02        | 7.24E-02        | 8.45E-02        | 1.05E-01        | 2.31E-13                         | 4.21E-03             | 4.32E-02         | 1.64E-02          | 0.00E+00                |
| Maryland        | Kent County          | 24029        | R                    | 1.00E-02                                                                | 1.05E-02        | 1.19E-02        | 1.20E-02        | 1.46E-02        | 1.53E-02        | 2.03E-02        | 2.19E-02        | 1.32E-04                         | 3.10E-03             | 8.15E-03         | 3.26E-03          | 0.00E+00                |
| Maryland        | Montgomery County    | 24031        | U                    | 3.90E-02                                                                | 4.41E-02        | 5.45E-02        | 6.50E-02        | 6.53E-02        | 7.41E-02        | 8.91E-02        | 1.05E-01        | 1.38E-08                         | 1.80E-03             | 4.74E-02         | 1.61E-02          | 0.00E+00                |

| State         | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|               |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|               |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Maryland      | Prince George        | 24033 | U                    | 3.73E-02                                                                | 4.20E-02 | 5.24E-02 | 6.16E-02 | 6.46E-02 | 7.61E-02 | 9.45E-02 | 1.01E-01 | 1.37E-07                         | 1.71E-03          | 5.10E-02         | 1.20E-02          | 0.00E+00                |
| Maryland      | Queen Anne           | 24035 | U                    | 4.31E-03                                                                | 8.62E-03 | 9.34E-03 | 1.20E-02 | 1.44E-02 | 1.65E-02 | 2.04E-02 | 2.20E-02 | 5.96E-05                         | 1.67E-03          | 9.24E-03         | 3.40E-03          | 0.00E+00                |
| Maryland      | St. Mary             | 24037 | R                    | 1.14E-02                                                                | 1.31E-02 | 1.77E-02 | 2.36E-02 | 2.63E-02 | 3.25E-02 | 3.67E-02 | 4.06E-02 | 3.16E-16                         | 8.07E-03          | 1.36E-02         | 4.67E-03          | 0.00E+00                |
| Maryland      | Somerset County      | 24039 | R                    | 5.42E-03                                                                | 6.33E-03 | 7.86E-03 | 9.57E-03 | 2.18E-02 | 1.38E-02 | 5.12E-02 | 7.80E-02 | 0.00E+00                         | 1.27E-02          | 6.12E-03         | 2.97E-03          | 0.00E+00                |
| Maryland      | Talbot County        | 24041 | R                    | 6.98E-03                                                                | 8.21E-03 | 8.87E-03 | 1.18E-02 | 2.86E-02 | 3.82E-02 | 6.09E-02 | 6.10E-02 | 4.03E-06                         | 7.44E-03          | 1.62E-02         | 5.03E-03          | 0.00E+00                |
| Maryland      | Washington County    | 24043 | U                    | 1.96E-02                                                                | 1.98E-02 | 2.64E-02 | 3.54E-02 | 3.88E-02 | 5.47E-02 | 7.66E-02 | 8.03E-02 | 0.00E+00                         | 3.14E-03          | 2.66E-02         | 9.13E-03          | 0.00E+00                |
| Maryland      | Wicomico County      | 24045 | R                    | 1.46E-02                                                                | 1.54E-02 | 2.15E-02 | 3.00E-02 | 2.99E-02 | 4.01E-02 | 4.90E-02 | 5.69E-02 | 2.50E-06                         | 6.63E-03          | 1.90E-02         | 4.27E-03          | 0.00E+00                |
| Maryland      | Worcester County     | 24047 | R                    | 1.08E-02                                                                | 1.12E-02 | 1.40E-02 | 1.80E-02 | 2.55E-02 | 2.53E-02 | 4.11E-02 | 4.30E-02 | 3.05E-08                         | 1.07E-02          | 7.02E-03         | 7.71E-03          | 0.00E+00                |
| Maryland      | Baltimore city       | 24510 | U                    | 1.08E-01                                                                | 1.18E-01 | 1.38E-01 | 1.78E-01 | 1.87E-01 | 2.22E-01 | 2.75E-01 | 3.06E-01 | 2.35E-09                         | 1.21E-03          | 1.66E-01         | 2.00E-02          | 0.00E+00                |
| Massachusetts | Statewide            | 25000 | -                    | 1.37E-02                                                                | 2.13E-02 | 3.34E-02 | 5.42E-02 | 6.51E-02 | 9.34E-02 | 1.38E-01 | 1.62E-01 | 4.04E-09                         | 9.66E-04          | 5.12E-02         | 1.29E-02          | 0.00E+00                |
| Massachusetts | State Urban Counties | 25000 | U                    | 1.54E-02                                                                | 2.29E-02 | 3.68E-02 | 5.71E-02 | 6.75E-02 | 9.73E-02 | 1.42E-01 | 1.64E-01 | 1.19E-10                         | 8.91E-04          | 5.34E-02         | 1.32E-02          | 0.00E+00                |
| Massachusetts | State Rural Counties | 25000 | R                    | 9.50E-03                                                                | 1.03E-02 | 1.85E-02 | 2.62E-02 | 2.61E-02 | 3.17E-02 | 3.89E-02 | 4.61E-02 | 6.88E-08                         | 2.21E-03          | 1.51E-02         | 8.82E-03          | 0.00E+00                |
| Massachusetts | Barnstable County    | 25001 | R                    | 1.71E-02                                                                | 2.28E-02 | 2.51E-02 | 3.00E-02 | 3.18E-02 | 3.69E-02 | 4.10E-02 | 4.88E-02 | 0.00E+00                         | 1.11E-03          | 1.88E-02         | 1.19E-02          | 0.00E+00                |
| Massachusetts | Berkshire County     | 25003 | R                    | 8.92E-03                                                                | 9.67E-03 | 1.04E-02 | 1.84E-02 | 1.85E-02 | 2.56E-02 | 2.84E-02 | 3.37E-02 | 1.70E-07                         | 2.09E-03          | 1.15E-02         | 4.90E-03          | 0.00E+00                |
| Massachusetts | Bristol County       | 25005 | U                    | 3.15E-02                                                                | 3.42E-02 | 4.08E-02 | 6.48E-02 | 6.46E-02 | 9.78E-02 | 1.15E-01 | 1.28E-01 | 5.14E-10                         | 1.64E-03          | 5.24E-02         | 1.06E-02          | 0.00E+00                |
| Massachusetts | Dukes County         | 25007 | R                    | 6.29E-03                                                                | 7.47E-03 | 1.10E-02 | 1.67E-02 | 1.63E-02 | 2.17E-02 | 2.39E-02 | 2.46E-02 | 0.00E+00                         | 6.02E-03          | 5.16E-03         | 5.11E-03          | 0.00E+00                |
| Massachusetts | Essex County         | 25009 | U                    | 2.75E-02                                                                | 3.32E-02 | 4.69E-02 | 6.23E-02 | 7.32E-02 | 9.63E-02 | 1.37E-01 | 1.62E-01 | 1.38E-11                         | 1.49E-03          | 5.78E-02         | 1.39E-02          | 0.00E+00                |
| Massachusetts | Franklin County      | 25011 | U                    | 4.19E-03                                                                | 4.41E-03 | 5.06E-03 | 6.87E-03 | 9.85E-03 | 1.06E-02 | 2.23E-02 | 2.81E-02 | 2.22E-10                         | 1.27E-03          | 6.73E-03         | 1.84E-03          | 0.00E+00                |
| Massachusetts | Hampden County       | 25013 | U                    | 2.17E-02                                                                | 2.35E-02 | 3.71E-02 | 4.55E-02 | 4.83E-02 | 6.01E-02 | 7.04E-02 | 8.32E-02 | 3.26E-10                         | 1.62E-03          | 3.89E-02         | 7.78E-03          | 0.00E+00                |
| Massachusetts | Hampshire County     | 25015 | U                    | 1.04E-02                                                                | 1.10E-02 | 1.36E-02 | 1.90E-02 | 2.28E-02 | 2.73E-02 | 4.08E-02 | 4.43E-02 | 6.49E-10                         | 1.50E-03          | 1.65E-02         | 4.88E-03          | 0.00E+00                |
| Massachusetts | Middlesex County     | 25017 | U                    | 3.32E-02                                                                | 3.84E-02 | 5.18E-02 | 6.80E-02 | 7.56E-02 | 1.02E-01 | 1.33E-01 | 1.49E-01 | 8.10E-12                         | 5.59E-04          | 5.99E-02         | 1.51E-02          | 0.00E+00                |
| Massachusetts | Nantucket County     | 25019 | R                    | 1.84E-02                                                                | 1.99E-02 | 2.46E-02 | 3.01E-02 | 4.57E-02 | 5.70E-02 | 1.00E-01 | 1.15E-01 | 0.00E+00                         | 3.19E-02          | 3.00E-03         | 1.09E-02          | 0.00E+00                |
| Massachusetts | Norfolk County       | 25021 | U                    | 3.53E-02                                                                | 3.85E-02 | 4.55E-02 | 5.43E-02 | 5.98E-02 | 6.85E-02 | 9.81E-02 | 1.12E-01 | 0.00E+00                         | 9.28E-04          | 4.54E-02         | 1.35E-02          | 0.00E+00                |
| Massachusetts | Plymouth County      | 25023 | U                    | 2.25E-02                                                                | 2.46E-02 | 2.84E-02 | 3.56E-02 | 3.82E-02 | 4.59E-02 | 5.40E-02 | 6.98E-02 | 2.79E-12                         | 8.44E-04          | 2.78E-02         | 9.63E-03          | 0.00E+00                |
| Massachusetts | Suffolk County       | 25025 | U                    | 8.22E-02                                                                | 8.70E-02 | 1.10E-01 | 1.38E-01 | 1.45E-01 | 1.65E-01 | 2.02E-01 | 2.33E-01 | 0.00E+00                         | 2.66E-04          | 1.17E-01         | 2.73E-02          | 0.00E+00                |
| Massachusetts | Worcester County     | 25027 | U                    | 1.01E-02                                                                | 1.30E-02 | 1.85E-02 | 2.53E-02 | 2.78E-02 | 3.59E-02 | 4.85E-02 | 5.56E-02 | 1.92E-10                         | 3.95E-04          | 2.18E-02         | 5.56E-03          | 0.00E+00                |
| Michigan      | Statewide            | 26000 | -                    | 8.32E-03                                                                | 1.12E-02 | 2.60E-02 | 5.99E-02 | 6.23E-02 | 9.14E-02 | 1.20E-01 | 1.29E-01 | 2.32E-04                         | 1.31E-03          | 4.17E-02         | 1.90E-02          | 0.00E+00                |
| Michigan      | State Urban Counties | 26000 | U                    | 1.56E-02                                                                | 2.21E-02 | 4.55E-02 | 7.41E-02 | 7.22E-02 | 1.00E-01 | 1.24E-01 | 1.32E-01 | 2.82E-04                         | 5.70E-04          | 4.97E-02         | 2.16E-02          | 0.00E+00                |
| Michigan      | State Rural Counties | 26000 | R                    | 6.03E-03                                                                | 6.91E-03 | 9.37E-03 | 1.62E-02 | 2.34E-02 | 2.96E-02 | 4.70E-02 | 5.97E-02 | 3.34E-05                         | 4.22E-03          | 1.02E-02         | 8.92E-03          | 0.00E+00                |
| Michigan      | Alcona County        | 26001 | R                    | 9.60E-03                                                                | 9.76E-03 | 1.02E-02 | 1.19E-02 | 1.23E-02 | 1.37E-02 | 1.52E-02 | 1.59E-02 | 0.00E+00                         | 4.19E-03          | 1.74E-03         | 6.42E-03          | 0.00E+00                |
| Michigan      | Alger County         | 26003 | R                    | 1.59E-02                                                                | 1.59E-02 | 1.60E-02 | 1.62E-02 | 1.61E-02 | 1.62E-02 | 1.62E-02 | 1.62E-02 | 0.00E+00                         | 3.70E-03          | 5.63E-04         | 1.18E-02          | 0.00E+00                |
| Michigan      | Allegan County       | 26005 | U                    | 1.15E-02                                                                | 1.19E-02 | 1.25E-02 | 1.87E-02 | 1.96E-02 | 2.30E-02 | 2.99E-02 | 3.22E-02 | 4.09E-11                         | 1.12E-03          | 9.84E-03         | 8.60E-03          | 0.00E+00                |
| Michigan      | Alpena County        | 26007 | R                    | 6.88E-03                                                                | 1.38E-02 | 1.68E-02 | 2.31E-02 | 2.88E-02 | 3.63E-02 | 4.93E-02 | 5.29E-02 | 0.00E+00                         | 8.04E-03          | 9.38E-03         | 1.14E-02          | 0.00E+00                |
| Michigan      | Antrim County        | 26009 | R                    | 6.80E-03                                                                | 6.92E-03 | 7.70E-03 | 8.33E-03 | 8.51E-03 | 9.26E-03 | 9.71E-03 | 9.91E-03 | 0.00E+00                         | 2.32E-03          | 2.87E-03         | 3.31E-03          | 0.00E+00                |
| Michigan      | Arenac County        | 26011 | R                    | 1.44E-02                                                                | 1.47E-02 | 1.57E-02 | 1.67E-02 | 1.67E-02 | 1.73E-02 | 1.81E-02 | 1.84E-02 | 2.05E-04                         | 1.85E-03          | 3.21E-03         | 1.15E-02          | 0.00E+00                |
| Michigan      | Baraga County        | 26013 | R                    | 1.04E-02                                                                | 1.05E-02 | 1.05E-02 | 1.06E-02 | 1.06E-02 | 1.06E-02 | 1.07E-02 | 1.07E-02 | 0.00E+00                         | 7.92E-03          | 1.21E-03         | 1.42E-03          | 0.00E+00                |
| Michigan      | Barry County         | 26015 | R                    | 1.24E-02                                                                | 1.39E-02 | 1.46E-02 | 1.51E-02 | 1.67E-02 | 1.65E-02 | 2.28E-02 | 2.30E-02 | 5.65E-11                         | 1.52E-03          | 8.16E-03         | 7.03E-03          | 0.00E+00                |
| Michigan      | Bay County           | 26017 | U                    | 1.25E-02                                                                | 1.51E-02 | 2.03E-02 | 3.35E-02 | 3.22E-02 | 4.26E-02 | 5.78E-02 | 6.26E-02 | 2.33E-03                         | 3.25E-04          | 2.17E-02         | 7.82E-03          | 0.00E+00                |
| Michigan      | Benzie County        | 26019 | R                    | 2.64E-02                                                                | 2.65E-02 | 2.67E-02 | 3.12E-02 | 3.54E-02 | 3.32E-02 | 5.76E-02 | 6.58E-02 | 0.00E+00                         | 3.59E-03          | 4.16E-03         | 2.77E-02          | 0.00E+00                |
| Michigan      | Berrien County       | 26021 | R                    | 2.36E-02                                                                | 2.52E-02 | 2.64E-02 | 3.61E-02 | 4.05E-02 | 5.28E-02 | 6.55E-02 | 6.85E-02 | 1.61E-06                         | 7.94E-04          | 2.53E-02         | 1.44E-02          | 0.00E+00                |
| Michigan      | Branch County        | 26023 | R                    | 9.32E-03                                                                | 9.87E-03 | 1.02E-02 | 1.37E-02 | 1.79E-02 | 2.17E-02 | 3.23E-02 | 3.31E-02 | 2.27E-09                         | 1.48E-03          | 1.39E-02         | 2.52E-03          | 0.00E+00                |
| Michigan      | Calhoun County       | 26025 | U                    | 1.20E-02                                                                | 1.31E-02 | 1.89E-02 | 2.98E-02 | 2.92E-02 | 3.67E-02 | 4.01E-02 | 4.76E-02 | 1.01E-09                         | 1.15E-03          | 2.18E-02         | 6.29E-03          | 0.00E+00                |
| Michigan      | Cass County          | 26027 | R                    | 2.16E-02                                                                | 2.24E-02 | 2.60E-02 | 2.96E-02 | 3.03E-02 | 4.22E-02 | 4.60E-02 | 4.82E-02 | 1.66E-08                         | 1.62E-03          | 1.48E-02         | 1.39E-02          | 0.00E+00                |
| Michigan      | Charlevoix County    | 26029 | R                    | 7.10E-03                                                                | 9.60E-03 | 1.07E-02 | 1.29E-02 | 1.72E-02 | 2.06E-02 | 2.48E-02 | 2.63E-02 | 0.00E+00                         | 3.91E-03          | 6.17E-03         | 7.08E-03          | 0.00E+00                |
| Michigan      | Cheboygan County     | 26031 | R                    | 3.92E-02                                                                | 4.08E-02 | 4.64E-02 | 4.83E-02 | 6.27E-02 | 7.50E-02 | 8.51E-02 | 9.03E-02 | 0.00E+00                         | 5.24E-03          | 3.69E-03         | 5.37E-02          | 0.00E+00                |
| Michigan      | Chippewa County      | 26033 | R                    | 6.24E-03                                                                | 6.54E-03 | 9.31E-03 | 1.52E-02 | 2.81E-02 | 3.02E-02 | 4.57E-02 | 5.29E-02 | 0.00E+00                         | 1.29E-02          | 7.28E-03         | 7.98E-03          | 0.00E+00                |
| Michigan      | Clare County         | 26035 | R                    | 4.34E-03                                                                | 4.97E-03 | 6.45E-03 | 8.19E-03 | 9.02E-03 | 1.05E-02 | 1.26E-02 | 1.40E-02 | 1.84E-04                         | 3.99E-03          | 4.06E-03         | 7.92E-04          | 0.00E+00                |
| Michigan      | Clinton County       | 26037 | U                    | 6.83E-03                                                                | 6.88E-03 | 8.25E-03 | 1.43E-02 | 1.68E-02 | 2.26E-02 | 2.68E-02 | 2.76E-02 | 1.07E-06                         | 4.17E-04          | 1.20E-02         | 4.47E-03          | 0.00E+00                |
| Michigan      | Crawford County      | 26039 | R                    | 7.31E-03                                                                | 7.77E-03 | 9.14E-03 | 9.38E-03 | 1.43E-02 | 1.90E-02 | 1.95E-02 | 1.97E-02 | 1.08E-05                         | 7.95E-03          | 3.59E-03         | 2.78E-03          | 0.00E+00                |
| Michigan      | Delta County         | 26041 | R                    | 3.40E-03                                                                | 6.39E-03 | 8.68E-03 | 1.60E-02 | 2.17E-02 | 3.01E-02 | 3.31E-02 | 3.60E-02 | 0.00E+00                         | 1.12E-02          | 6.92E-03         | 3.54E-03          | 0.00E+00                |
| Michigan      | Dickinson County     | 26043 | U                    | 7.07E-03                                                                | 7.66E-03 | 1.33E-02 | 1.86E-02 | 2.16E-02 | 2.59E-02 | 3.22E-02 | 3.61E-02 | 0.00E+00                         | 1.28E-02          | 5.16E-03         | 3.63E-03          | 0.00E+00                |
| Michigan      | Eaton County         | 26045 | U                    | 1.09E-02                                                                | 1.11E-02 | 1.68E-02 | 2.66E-02 | 2.34E-02 | 2.99E-02 | 3.42E-02 | 3.50E-02 | 8.36E-09                         | 8.56E-04          | 1.71E-02         | 5.45E-03          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Michigan | Emmet County         | 26047 | R                    | 1.11E-02                                                                | 1.17E-02 | 1.32E-02 | 1.80E-02 | 1.99E-02 | 2.41E-02 | 2.96E-02 | 2.96E-02 | 0.00E+00                         | 3.97E-03          | 7.61E-03         | 8.29E-03          | 0.00E+00                |
| Michigan | Genesee County       | 26049 | U                    | 4.62E-02                                                                | 4.76E-02 | 5.92E-02 | 7.39E-02 | 7.53E-02 | 9.29E-02 | 1.10E-01 | 1.23E-01 | 5.63E-06                         | 3.83E-04          | 4.57E-02         | 2.92E-02          | 0.00E+00                |
| Michigan | Gladwin County       | 26051 | R                    | 6.15E-03                                                                | 6.24E-03 | 6.37E-03 | 7.66E-03 | 8.33E-03 | 9.42E-03 | 1.11E-02 | 1.24E-02 | 7.50E-04                         | 3.02E-03          | 3.51E-03         | 1.05E-03          | 0.00E+00                |
| Michigan | Gogebic County       | 26053 | R                    | 7.03E-03                                                                | 7.78E-03 | 1.07E-02 | 1.31E-02 | 3.07E-02 | 2.89E-02 | 4.92E-02 | 6.41E-02 | 0.00E+00                         | 2.34E-02          | 4.26E-03         | 3.05E-03          | 0.00E+00                |
| Michigan | Grand Traverse Count | 26055 | R                    | 2.32E-02                                                                | 2.41E-02 | 2.47E-02 | 2.88E-02 | 3.19E-02 | 3.78E-02 | 4.62E-02 | 5.15E-02 | 0.00E+00                         | 2.94E-03          | 1.15E-02         | 1.74E-02          | 0.00E+00                |
| Michigan | Gratiot County       | 26057 | R                    | 4.99E-03                                                                | 5.07E-03 | 5.26E-03 | 5.74E-03 | 9.18E-03 | 1.09E-02 | 1.74E-02 | 1.75E-02 | 3.68E-04                         | 5.45E-04          | 7.07E-03         | 1.19E-03          | 0.00E+00                |
| Michigan | Hillsdale County     | 26059 | R                    | 5.46E-03                                                                | 5.58E-03 | 5.77E-03 | 6.73E-03 | 9.35E-03 | 8.81E-03 | 1.85E-02 | 2.29E-02 | 1.24E-07                         | 7.93E-04          | 7.13E-03         | 1.43E-03          | 0.00E+00                |
| Michigan | Houghton County      | 26061 | R                    | 1.13E-02                                                                | 1.13E-02 | 1.32E-02 | 2.46E-02 | 2.76E-02 | 3.49E-02 | 4.04E-02 | 4.56E-02 | 0.00E+00                         | 1.57E-02          | 7.09E-03         | 4.80E-03          | 0.00E+00                |
| Michigan | Huron County         | 26063 | R                    | 8.82E-03                                                                | 8.95E-03 | 9.71E-03 | 1.05E-02 | 1.39E-02 | 1.11E-02 | 2.71E-02 | 2.89E-02 | 1.89E-05                         | 8.96E-04          | 3.64E-03         | 9.32E-03          | 0.00E+00                |
| Michigan | Ingham County        | 26065 | U                    | 2.28E-02                                                                | 3.24E-02 | 4.25E-02 | 5.50E-02 | 5.73E-02 | 6.56E-02 | 8.86E-02 | 9.66E-02 | 1.40E-07                         | 5.11E-04          | 3.99E-02         | 1.69E-02          | 0.00E+00                |
| Michigan | Ionia County         | 26067 | R                    | 7.14E-03                                                                | 7.27E-03 | 7.98E-03 | 1.17E-02 | 1.48E-02 | 2.28E-02 | 3.64E-02 | 3.85E-02 | 2.59E-11                         | 1.88E-03          | 1.05E-02         | 2.37E-03          | 0.00E+00                |
| Michigan | Iosco County         | 26069 | R                    | 1.56E-02                                                                | 1.62E-02 | 1.79E-02 | 1.89E-02 | 2.20E-02 | 2.27E-02 | 2.73E-02 | 3.30E-02 | 9.03E-06                         | 4.61E-03          | 5.05E-03         | 1.23E-02          | 0.00E+00                |
| Michigan | Iron County          | 26071 | R                    | 1.08E-02                                                                | 1.14E-02 | 1.30E-02 | 2.06E-02 | 2.21E-02 | 2.64E-02 | 3.35E-02 | 3.59E-02 | 0.00E+00                         | 1.85E-02          | 2.80E-03         | 8.38E-04          | 0.00E+00                |
| Michigan | Isabella County      | 26073 | R                    | 6.81E-03                                                                | 7.29E-03 | 7.60E-03 | 8.33E-03 | 1.59E-02 | 2.30E-02 | 2.77E-02 | 3.41E-02 | 2.72E-04                         | 2.18E-03          | 1.19E-02         | 1.48E-03          | 0.00E+00                |
| Michigan | Jackson County       | 26075 | R                    | 2.64E-02                                                                | 2.75E-02 | 3.33E-02 | 4.49E-02 | 4.14E-02 | 5.50E-02 | 6.52E-02 | 7.05E-02 | 9.76E-08                         | 1.19E-03          | 2.56E-02         | 1.46E-02          | 0.00E+00                |
| Michigan | Kalamazoo County     | 26077 | U                    | 1.90E-02                                                                | 1.95E-02 | 2.92E-02 | 4.59E-02 | 4.69E-02 | 6.05E-02 | 7.80E-02 | 8.92E-02 | 3.36E-12                         | 7.87E-04          | 3.35E-02         | 1.27E-02          | 0.00E+00                |
| Michigan | Kalkaska County      | 26079 | R                    | 6.62E-03                                                                | 6.66E-03 | 6.79E-03 | 8.46E-03 | 7.98E-03 | 8.57E-03 | 8.62E-03 | 8.64E-03 | 8.72E-08                         | 3.70E-03          | 2.54E-03         | 1.75E-03          | 0.00E+00                |
| Michigan | Kent County          | 26081 | U                    | 2.51E-02                                                                | 2.81E-02 | 4.53E-02 | 5.61E-02 | 5.73E-02 | 7.01E-02 | 8.89E-02 | 9.26E-02 | 4.18E-08                         | 8.01E-04          | 3.85E-02         | 1.80E-02          | 0.00E+00                |
| Michigan | Keweenaw County      | 26083 | R                    | 1.10E-03                                                                | 2.20E-03 | 5.50E-03 | 1.10E-02 | 1.70E-02 | 1.45E-02 | 1.65E-02 | 1.72E-02 | 0.00E+00                         | 5.42E-03          | 1.79E-03         | 9.78E-03          | 0.00E+00                |
| Michigan | Lake County          | 26085 | R                    | 9.19E-03                                                                | 9.27E-03 | 9.46E-03 | 9.91E-03 | 1.09E-02 | 1.26E-02 | 1.45E-02 | 1.55E-02 | 5.87E-07                         | 5.10E-03          | 1.76E-03         | 4.05E-03          | 0.00E+00                |
| Michigan | Lapeer County        | 26087 | U                    | 1.46E-02                                                                | 1.60E-02 | 1.81E-02 | 2.23E-02 | 2.27E-02 | 2.40E-02 | 2.66E-02 | 3.23E-02 | 7.23E-07                         | 1.10E-03          | 1.11E-02         | 1.05E-02          | 0.00E+00                |
| Michigan | Leelanau County      | 26089 | R                    | 1.64E-02                                                                | 1.67E-02 | 1.79E-02 | 2.13E-02 | 2.30E-02 | 2.62E-02 | 2.76E-02 | 2.79E-02 | 0.00E+00                         | 1.82E-03          | 4.38E-03         | 1.68E-02          | 0.00E+00                |
| Michigan | Lenawee County       | 26091 | U                    | 6.88E-03                                                                | 7.04E-03 | 8.81E-03 | 1.13E-02 | 1.57E-02 | 2.55E-02 | 2.83E-02 | 2.93E-02 | 1.97E-07                         | 7.21E-04          | 1.09E-02         | 4.08E-03          | 0.00E+00                |
| Michigan | Livingston County    | 26093 | U                    | 1.37E-02                                                                | 1.41E-02 | 1.78E-02 | 2.58E-02 | 2.65E-02 | 2.93E-02 | 3.30E-02 | 6.47E-02 | 1.80E-06                         | 9.76E-04          | 1.78E-02         | 7.72E-03          | 0.00E+00                |
| Michigan | Luce County          | 26095 | R                    | 1.71E-02                                                                | 1.71E-02 | 1.71E-02 | 1.72E-02 | 1.72E-02 | 1.73E-02 | 1.73E-02 | 1.73E-02 | 0.00E+00                         | 9.17E-03          | 9.28E-04         | 7.06E-03          | 0.00E+00                |
| Michigan | Mackinac County      | 26097 | R                    | 5.85E-03                                                                | 6.21E-03 | 7.45E-03 | 9.19E-03 | 1.17E-02 | 1.33E-02 | 1.50E-02 | 1.55E-02 | 0.00E+00                         | 5.67E-03          | 9.99E-04         | 5.04E-03          | 0.00E+00                |
| Michigan | Macomb County        | 26099 | U                    | 3.90E-02                                                                | 4.74E-02 | 6.19E-02 | 7.42E-02 | 7.35E-02 | 8.97E-02 | 9.86E-02 | 1.12E-01 | 1.80E-05                         | 3.08E-04          | 5.21E-02         | 2.11E-02          | 0.00E+00                |
| Michigan | Manistee County      | 26101 | R                    | 9.43E-03                                                                | 9.72E-03 | 9.89E-03 | 1.07E-02 | 1.47E-02 | 1.25E-02 | 2.52E-02 | 2.53E-02 | 0.00E+00                         | 4.40E-03          | 4.64E-03         | 5.65E-03          | 0.00E+00                |
| Michigan | Marquette County     | 26103 | R                    | 9.41E-03                                                                | 1.10E-02 | 1.61E-02 | 2.82E-02 | 2.51E-02 | 3.18E-02 | 3.91E-02 | 4.27E-02 | 0.00E+00                         | 1.41E-02          | 5.72E-03         | 5.32E-03          | 0.00E+00                |
| Michigan | Mason County         | 26105 | R                    | 3.22E-03                                                                | 6.44E-03 | 8.47E-03 | 8.92E-03 | 1.57E-02 | 1.60E-02 | 2.34E-02 | 2.84E-02 | 0.00E+00                         | 3.67E-03          | 6.63E-03         | 5.35E-03          | 0.00E+00                |
| Michigan | Mecosta County       | 26107 | R                    | 4.21E-03                                                                | 4.64E-03 | 5.24E-03 | 7.91E-03 | 1.09E-02 | 1.41E-02 | 2.54E-02 | 2.71E-02 | 2.43E-06                         | 2.70E-03          | 7.08E-03         | 1.11E-03          | 0.00E+00                |
| Michigan | Menominee County     | 26109 | R                    | 7.43E-03                                                                | 7.54E-03 | 8.85E-03 | 1.13E-02 | 1.62E-02 | 1.93E-02 | 2.68E-02 | 2.89E-02 | 0.00E+00                         | 9.30E-03          | 5.53E-03         | 1.35E-03          | 0.00E+00                |
| Michigan | Midland County       | 26111 | U                    | 1.03E-02                                                                | 1.20E-02 | 1.56E-02 | 3.44E-02 | 3.44E-02 | 5.32E-02 | 6.48E-02 | 8.52E-02 | 1.80E-02                         | 2.08E-03          | 8.98E-03         | 5.42E-03          | 0.00E+00                |
| Michigan | Missaukee County     | 26113 | R                    | 4.63E-03                                                                | 4.82E-03 | 5.40E-03 | 5.99E-03 | 7.12E-03 | 8.22E-03 | 1.17E-02 | 1.29E-02 | 1.01E-07                         | 3.92E-03          | 2.64E-03         | 5.61E-04          | 0.00E+00                |
| Michigan | Monroe County        | 26115 | U                    | 1.43E-02                                                                | 1.50E-02 | 1.75E-02 | 2.31E-02 | 2.64E-02 | 3.29E-02 | 4.17E-02 | 4.75E-02 | 5.85E-06                         | 4.77E-04          | 1.87E-02         | 7.27E-03          | 0.00E+00                |
| Michigan | Montcalm County      | 26117 | R                    | 6.25E-03                                                                | 6.35E-03 | 6.96E-03 | 8.55E-03 | 1.16E-02 | 1.02E-02 | 2.38E-02 | 2.66E-02 | 1.01E-05                         | 2.24E-03          | 7.19E-03         | 2.17E-03          | 0.00E+00                |
| Michigan | Montmorency County   | 26119 | R                    | 5.79E-03                                                                | 5.88E-03 | 6.15E-03 | 7.92E-03 | 7.52E-03 | 9.21E-03 | 9.55E-03 | 9.67E-03 | 5.18E-10                         | 3.75E-03          | 1.21E-03         | 2.57E-03          | 0.00E+00                |
| Michigan | Muskegon County      | 26121 | U                    | 1.92E-02                                                                | 2.01E-02 | 2.60E-02 | 3.52E-02 | 3.79E-02 | 4.80E-02 | 5.53E-02 | 6.17E-02 | 0.00E+00                         | 1.66E-03          | 2.33E-02         | 1.30E-02          | 0.00E+00                |
| Michigan | Newaygo County       | 26123 | R                    | 6.53E-03                                                                | 7.00E-03 | 7.91E-03 | 8.34E-03 | 1.01E-02 | 1.12E-02 | 1.47E-02 | 1.51E-02 | 8.75E-08                         | 2.07E-03          | 5.51E-03         | 2.50E-03          | 0.00E+00                |
| Michigan | Oakland County       | 26125 | U                    | 6.06E-02                                                                | 6.44E-02 | 7.39E-02 | 8.33E-02 | 8.45E-02 | 9.65E-02 | 1.09E-01 | 1.19E-01 | 1.29E-05                         | 3.97E-04          | 4.79E-02         | 3.62E-02          | 0.00E+00                |
| Michigan | Oceana County        | 26127 | R                    | 2.76E-02                                                                | 2.80E-02 | 2.94E-02 | 3.08E-02 | 3.03E-02 | 3.19E-02 | 3.20E-02 | 3.21E-02 | 0.00E+00                         | 2.48E-03          | 4.46E-03         | 2.34E-02          | 0.00E+00                |
| Michigan | Ogemaw County        | 26129 | R                    | 8.53E-03                                                                | 8.96E-03 | 9.36E-03 | 1.04E-02 | 1.21E-02 | 1.27E-02 | 1.81E-02 | 1.94E-02 | 3.16E-05                         | 4.02E-03          | 2.58E-03         | 5.52E-03          | 0.00E+00                |
| Michigan | Ontonagon County     | 26131 | R                    | 8.21E-03                                                                | 8.26E-03 | 8.43E-03 | 8.72E-03 | 9.96E-03 | 1.04E-02 | 1.14E-02 | 1.17E-02 | 0.00E+00                         | 4.51E-03          | 4.80E-04         | 4.97E-03          | 0.00E+00                |
| Michigan | Osceola County       | 26133 | R                    | 5.43E-03                                                                | 5.73E-03 | 6.35E-03 | 6.56E-03 | 7.15E-03 | 8.56E-03 | 9.18E-03 | 9.19E-03 | 6.37E-05                         | 2.90E-03          | 3.47E-03         | 7.24E-04          | 0.00E+00                |
| Michigan | Oscoda County        | 26135 | R                    | 8.44E-03                                                                | 8.97E-03 | 1.05E-02 | 1.13E-02 | 1.41E-02 | 1.90E-02 | 1.91E-02 | 1.91E-02 | 1.38E-06                         | 1.04E-02          | 2.21E-03         | 1.42E-03          | 0.00E+00                |
| Michigan | Otsego County        | 26137 | R                    | 5.74E-02                                                                | 5.75E-02 | 6.34E-02 | 8.26E-02 | 9.56E-02 | 8.97E-02 | 1.17E-01 | 1.29E-01 | 0.00E+00                         | 1.21E-02          | 7.85E-03         | 7.56E-02          | 0.00E+00                |
| Michigan | Ottawa County        | 26139 | U                    | 3.93E-02                                                                | 4.06E-02 | 4.56E-02 | 5.51E-02 | 6.55E-02 | 8.06E-02 | 1.11E-01 | 1.23E-01 | 1.46E-13                         | 1.17E-03          | 2.60E-02         | 3.83E-02          | 0.00E+00                |
| Michigan | Presque Isle County  | 26141 | R                    | 7.88E-03                                                                | 8.42E-03 | 1.16E-02 | 1.43E-02 | 1.67E-02 | 1.68E-02 | 1.98E-02 | 2.08E-02 | 0.00E+00                         | 3.85E-03          | 2.00E-03         | 1.09E-02          | 0.00E+00                |
| Michigan | Roscommon County     | 26143 | R                    | 6.04E-03                                                                | 6.41E-03 | 7.05E-03 | 1.25E-02 | 1.15E-02 | 1.42E-02 | 2.04E-02 | 2.06E-02 | 2.94E-06                         | 6.76E-03          | 3.37E-03         | 1.38E-03          | 0.00E+00                |
| Michigan | Saginaw County       | 26145 | U                    | 1.38E-02                                                                | 1.55E-02 | 1.82E-02 | 3.45E-02 | 3.45E-02 | 4.80E-02 | 5.59E-02 | 6.10E-02 | 1.41E-03                         | 4.80E-04          | 2.31E-02         | 9.50E-03          | 0.00E+00                |
| Michigan | St. Clair County     | 26147 | U                    | 7.18E-03                                                                | 1.02E-02 | 1.34E-02 | 1.83E-02 | 2.13E-02 | 2.64E-02 | 3.31E-02 | 4.10E-02 | 7.64E-07                         | 9.51E-04          | 1.54E-02         | 4.94E-03          | 0.00E+00                |
| Michigan | St. Joseph County    | 26149 | R                    | 2.22E-02                                                                | 2.24E-02 | 2.53E-02 | 3.48E-02 | 3.82E-02 | 5.77E-02 | 7.63E-02 | 7.96E-02 | 1.78E-08                         | 1.74E-03          | 1.39E-02         | 2.25E-02          | 0.00E+00                |

| State     | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|           |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|           |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Michigan  | Sanilac County       | 26151 | R                    | 7.98E-03                                                                | 8.17E-03 | 8.44E-03 | 8.70E-03 | 8.98E-03 | 9.15E-03 | 1.00E-02 | 1.25E-02 | 2.10E-06                         | 3.40E-04          | 3.42E-03         | 5.22E-03          | 0.00E+00                |
| Michigan  | Schoolcraft County   | 26153 | R                    | 8.32E-03                                                                | 9.01E-03 | 1.11E-02 | 1.45E-02 | 4.16E-02 | 4.73E-02 | 6.69E-02 | 7.34E-02 | 0.00E+00                         | 3.57E-02          | 1.50E-03         | 4.37E-03          | 0.00E+00                |
| Michigan  | Shiawassee County    | 26155 | R                    | 1.00E-02                                                                | 1.07E-02 | 1.34E-02 | 2.08E-02 | 1.76E-02 | 2.32E-02 | 2.68E-02 | 2.71E-02 | 1.88E-06                         | 1.05E-03          | 1.28E-02         | 3.78E-03          | 0.00E+00                |
| Michigan  | Tuscola County       | 26157 | R                    | 6.31E-03                                                                | 6.55E-03 | 7.15E-03 | 9.71E-03 | 1.00E-02 | 1.07E-02 | 1.35E-02 | 1.51E-02 | 9.79E-05                         | 1.09E-03          | 6.02E-03         | 2.82E-03          | 0.00E+00                |
| Michigan  | Van Buren County     | 26159 | U                    | 1.30E-02                                                                | 1.32E-02 | 1.38E-02 | 1.62E-02 | 1.85E-02 | 1.83E-02 | 4.00E-02 | 4.84E-02 | 5.31E-13                         | 1.65E-03          | 1.08E-02         | 6.01E-03          | 0.00E+00                |
| Michigan  | Washtenaw County     | 26161 | U                    | 2.82E-02                                                                | 3.29E-02 | 4.97E-02 | 6.15E-02 | 7.16E-02 | 7.66E-02 | 9.97E-02 | 1.16E-01 | 4.45E-06                         | 6.60E-04          | 4.37E-02         | 2.72E-02          | 0.00E+00                |
| Michigan  | Wayne County         | 26163 | U                    | 5.92E-02                                                                | 7.10E-02 | 8.79E-02 | 1.08E-01 | 1.08E-01 | 1.24E-01 | 1.35E-01 | 1.45E-01 | 6.74E-05                         | 2.10E-04          | 8.39E-02         | 2.34E-02          | 0.00E+00                |
| Michigan  | Wexford County       | 26165 | R                    | 8.28E-03                                                                | 8.38E-03 | 9.52E-03 | 1.79E-02 | 2.37E-02 | 3.42E-02 | 4.08E-02 | 4.41E-02 | 1.44E-08                         | 1.21E-02          | 9.88E-03         | 1.73E-03          | 0.00E+00                |
| Minnesota | Statewide            | 27000 | -                    | 5.30E-03                                                                | 8.46E-03 | 2.94E-02 | 1.75E-01 | 2.14E-01 | 3.13E-01 | 4.75E-01 | 6.53E-01 | 3.27E-05                         | 1.72E-01          | 2.98E-02         | 1.24E-02          | 0.00E+00                |
| Minnesota | State Urban Counties | 27000 | U                    | 1.48E-02                                                                | 3.26E-02 | 1.34E-01 | 2.53E-01 | 2.64E-01 | 3.67E-01 | 5.45E-01 | 7.87E-01 | 4.36E-05                         | 2.10E-01          | 3.81E-02         | 1.56E-02          | 0.00E+00                |
| Minnesota | State Rural Counties | 27000 | R                    | 2.95E-03                                                                | 4.24E-03 | 8.33E-03 | 1.66E-02 | 6.58E-02 | 4.57E-02 | 1.36E-01 | 2.43E-01 | 4.29E-07                         | 5.79E-02          | 5.07E-03         | 2.85E-03          | 0.00E+00                |
| Minnesota | Aitkin County        | 27001 | R                    | 9.97E-03                                                                | 1.11E-02 | 1.22E-02 | 1.54E-02 | 2.48E-02 | 2.34E-02 | 4.12E-02 | 4.97E-02 | 6.48E-12                         | 1.86E-02          | 1.35E-03         | 4.85E-03          | 0.00E+00                |
| Minnesota | Anoka County         | 27003 | U                    | 7.04E-02                                                                | 7.67E-02 | 1.43E-01 | 2.70E-01 | 2.69E-01 | 4.13E-01 | 6.04E-01 | 6.43E-01 | 1.17E-05                         | 2.25E-01          | 3.43E-02         | 9.84E-03          | 0.00E+00                |
| Minnesota | Becker County        | 27005 | R                    | 1.31E-02                                                                | 1.41E-02 | 1.70E-02 | 3.14E-02 | 7.89E-02 | 5.38E-02 | 2.27E-01 | 2.32E-01 | 0.00E+00                         | 6.44E-02          | 4.74E-03         | 9.79E-03          | 0.00E+00                |
| Minnesota | Beltrami County      | 27007 | R                    | 7.86E-03                                                                | 7.91E-03 | 2.19E-02 | 5.81E-02 | 1.81E-01 | 1.01E-01 | 3.92E-01 | 3.94E-01 | 0.00E+00                         | 1.67E-01          | 9.02E-03         | 4.45E-03          | 0.00E+00                |
| Minnesota | Benton County        | 27009 | U                    | 1.13E-02                                                                | 1.18E-02 | 1.46E-02 | 3.00E-02 | 1.33E-01 | 1.25E-01 | 2.63E-01 | 3.18E-01 | 2.46E-07                         | 1.13E-01          | 1.10E-02         | 9.27E-03          | 0.00E+00                |
| Minnesota | Big Stone County     | 27011 | R                    | 1.81E-03                                                                | 2.08E-03 | 2.88E-03 | 4.23E-03 | 2.15E-02 | 2.84E-02 | 4.28E-02 | 4.77E-02 | 0.00E+00                         | 1.89E-02          | 2.09E-03         | 4.53E-04          | 0.00E+00                |
| Minnesota | Blue Earth County    | 27013 | U                    | 5.94E-03                                                                | 1.09E-02 | 2.56E-02 | 1.20E-01 | 1.77E-01 | 2.64E-01 | 4.26E-01 | 5.48E-01 | 1.53E-07                         | 1.57E-01          | 1.16E-02         | 8.18E-03          | 0.00E+00                |
| Minnesota | Brown County         | 27015 | U                    | 4.64E-03                                                                | 5.47E-03 | 7.72E-03 | 3.22E-02 | 1.04E-01 | 2.25E-01 | 2.35E-01 | 2.41E-01 | 1.34E-13                         | 9.52E-02          | 5.68E-03         | 3.10E-03          | 0.00E+00                |
| Minnesota | Carlton County       | 27017 | R                    | 1.02E-02                                                                | 1.30E-02 | 1.79E-02 | 2.19E-02 | 6.36E-02 | 6.88E-02 | 1.63E-01 | 2.16E-01 | 1.20E-09                         | 5.78E-02          | 4.62E-03         | 1.25E-03          | 0.00E+00                |
| Minnesota | Carver County        | 27019 | U                    | 1.02E-02                                                                | 1.84E-02 | 4.16E-02 | 6.86E-02 | 1.11E-01 | 1.36E-01 | 2.42E-01 | 2.55E-01 | 3.66E-06                         | 9.02E-02          | 1.35E-02         | 6.94E-03          | 0.00E+00                |
| Minnesota | Cass County          | 27021 | R                    | 1.30E-02                                                                | 1.36E-02 | 1.62E-02 | 1.91E-02 | 2.19E-02 | 2.93E-02 | 3.49E-02 | 4.00E-02 | 0.00E+00                         | 1.44E-02          | 1.36E-03         | 6.16E-03          | 0.00E+00                |
| Minnesota | Chippewa County      | 27023 | R                    | 3.61E-03                                                                | 4.48E-03 | 7.12E-03 | 9.79E-03 | 4.53E-02 | 9.16E-02 | 9.18E-02 | 9.19E-02 | 7.31E-14                         | 4.15E-02          | 3.30E-03         | 4.85E-04          | 0.00E+00                |
| Minnesota | Chisago County       | 27025 | U                    | 2.04E-02                                                                | 2.22E-02 | 2.51E-02 | 2.58E-02 | 5.66E-02 | 7.69E-02 | 1.15E-01 | 1.15E-01 | 1.85E-06                         | 4.73E-02          | 7.37E-03         | 1.97E-03          | 0.00E+00                |
| Minnesota | Clay County          | 27027 | U                    | 7.11E-03                                                                | 8.24E-03 | 1.48E-02 | 1.13E-01 | 1.37E-01 | 2.44E-01 | 3.62E-01 | 4.98E-01 | 0.00E+00                         | 1.15E-01          | 1.45E-02         | 7.35E-03          | 0.00E+00                |
| Minnesota | Clearwater County    | 27029 | R                    | 4.65E-03                                                                | 5.24E-03 | 7.00E-03 | 9.94E-03 | 1.44E-02 | 2.05E-02 | 2.69E-02 | 2.90E-02 | 0.00E+00                         | 1.30E-02          | 1.01E-03         | 3.62E-04          | 0.00E+00                |
| Minnesota | Cook County          | 27031 | R                    | 3.68E-03                                                                | 7.36E-03 | 1.84E-02 | 2.10E-02 | 4.12E-02 | 2.79E-02 | 5.21E-02 | 6.02E-02 | 9.47E-15                         | 2.17E-02          | 5.52E-04         | 1.89E-02          | 0.00E+00                |
| Minnesota | Cottonwood County    | 27033 | R                    | 2.84E-03                                                                | 3.07E-03 | 3.76E-03 | 5.31E-03 | 8.67E-03 | 1.01E-02 | 1.65E-02 | 1.86E-02 | 0.00E+00                         | 7.08E-03          | 1.18E-03         | 4.07E-04          | 0.00E+00                |
| Minnesota | Crow Wing County     | 27035 | R                    | 2.63E-02                                                                | 2.74E-02 | 3.14E-02 | 4.02E-02 | 1.07E-01 | 8.59E-02 | 1.94E-01 | 3.40E-01 | 0.00E+00                         | 8.74E-02          | 6.01E-03         | 1.40E-02          | 0.00E+00                |
| Minnesota | Dakota County        | 27037 | U                    | 5.25E-02                                                                | 1.18E-01 | 1.52E-01 | 2.24E-01 | 2.31E-01 | 3.06E-01 | 3.99E-01 | 4.78E-01 | 1.26E-04                         | 1.87E-01          | 3.15E-02         | 1.23E-02          | 0.00E+00                |
| Minnesota | Dodge County         | 27039 | R                    | 6.46E-03                                                                | 6.91E-03 | 8.26E-03 | 1.38E-02 | 2.69E-02 | 1.58E-02 | 5.71E-02 | 7.08E-02 | 6.19E-09                         | 2.33E-02          | 2.67E-03         | 8.58E-04          | 0.00E+00                |
| Minnesota | Douglas County       | 27041 | R                    | 8.72E-03                                                                | 9.78E-03 | 2.25E-02 | 3.72E-02 | 9.72E-02 | 7.14E-02 | 2.05E-01 | 2.05E-01 | 0.00E+00                         | 8.80E-02          | 7.42E-03         | 1.72E-03          | 0.00E+00                |
| Minnesota | Faribault County     | 27043 | R                    | 4.29E-03                                                                | 4.35E-03 | 4.80E-03 | 7.17E-03 | 2.00E-02 | 1.45E-02 | 3.89E-02 | 5.01E-02 | 0.00E+00                         | 1.73E-02          | 2.32E-03         | 3.88E-04          | 0.00E+00                |
| Minnesota | Fillmore County      | 27045 | R                    | 7.12E-03                                                                | 7.61E-03 | 8.77E-03 | 9.55E-03 | 1.05E-02 | 1.32E-02 | 1.45E-02 | 1.45E-02 | 5.50E-10                         | 8.15E-03          | 1.78E-03         | 5.56E-04          | 0.00E+00                |
| Minnesota | Freeborn County      | 27047 | U                    | 6.82E-03                                                                | 7.18E-03 | 1.11E-02 | 1.05E-01 | 1.16E-01 | 1.91E-01 | 2.63E-01 | 2.79E-01 | 0.00E+00                         | 1.04E-01          | 7.52E-03         | 5.15E-03          | 0.00E+00                |
| Minnesota | Goodhue County       | 27049 | R                    | 1.21E-02                                                                | 1.38E-02 | 1.59E-02 | 1.82E-02 | 4.96E-02 | 4.55E-02 | 1.04E-01 | 1.11E-01 | 9.95E-06                         | 4.34E-02          | 4.95E-03         | 1.32E-03          | 0.00E+00                |
| Minnesota | Grant County         | 27051 | R                    | 4.15E-03                                                                | 4.24E-03 | 4.50E-03 | 4.95E-03 | 4.95E-03 | 5.39E-03 | 5.66E-03 | 5.75E-03 | 0.00E+00                         | 3.55E-03          | 9.43E-04         | 4.50E-04          | 0.00E+00                |
| Minnesota | Hennepin County      | 27053 | U                    | 1.76E-01                                                                | 2.14E-01 | 2.58E-01 | 3.37E-01 | 3.72E-01 | 4.58E-01 | 7.52E-01 | 9.86E-01 | 1.63E-05                         | 2.89E-01          | 5.94E-02         | 2.34E-02          | 0.00E+00                |
| Minnesota | Houston County       | 27055 | R                    | 7.34E-03                                                                | 7.36E-03 | 8.55E-03 | 1.36E-02 | 3.98E-02 | 3.74E-02 | 6.89E-02 | 8.09E-02 | 0.00E+00                         | 3.30E-02          | 5.02E-03         | 1.74E-03          | 0.00E+00                |
| Minnesota | Hubbard County       | 27057 | R                    | 1.69E-02                                                                | 1.75E-02 | 1.90E-02 | 3.13E-02 | 9.33E-02 | 1.31E-01 | 2.09E-01 | 2.09E-01 | 0.00E+00                         | 8.18E-02          | 3.23E-03         | 8.22E-03          | 0.00E+00                |
| Minnesota | Isanti County        | 27059 | U                    | 1.66E-02                                                                | 1.80E-02 | 2.21E-02 | 2.75E-02 | 3.96E-02 | 4.18E-02 | 5.78E-02 | 6.37E-02 | 5.91E-07                         | 3.26E-02          | 5.11E-03         | 1.85E-03          | 0.00E+00                |
| Minnesota | Itasca County        | 27061 | R                    | 0.00E+00                                                                | 1.68E-03 | 9.50E-03 | 1.24E-02 | 5.69E-02 | 2.16E-02 | 1.11E-01 | 1.33E-01 | 6.32E-12                         | 5.14E-02          | 4.16E-03         | 1.33E-03          | 0.00E+00                |
| Minnesota | Jackson County       | 27063 | R                    | 4.44E-03                                                                | 4.68E-03 | 5.39E-03 | 7.38E-03 | 3.41E-02 | 3.06E-02 | 6.96E-02 | 8.25E-02 | 0.00E+00                         | 3.02E-02          | 2.09E-03         | 1.80E-03          | 0.00E+00                |
| Minnesota | Kanabec County       | 27065 | R                    | 8.97E-03                                                                | 9.07E-03 | 9.36E-03 | 1.03E-02 | 4.43E-02 | 4.41E-02 | 1.04E-01 | 1.23E-01 | 1.73E-07                         | 4.03E-02          | 3.37E-03         | 5.70E-04          | 0.00E+00                |
| Minnesota | Kandiyohi County     | 27067 | R                    | 7.33E-03                                                                | 8.14E-03 | 1.36E-02 | 3.73E-02 | 1.01E-01 | 1.57E-01 | 2.74E-01 | 3.40E-01 | 2.91E-11                         | 9.16E-02          | 8.40E-03         | 1.23E-03          | 0.00E+00                |
| Minnesota | Kittson County       | 27069 | R                    | 2.36E-03                                                                | 2.37E-03 | 2.39E-03 | 2.43E-03 | 2.43E-03 | 2.47E-03 | 2.49E-03 | 2.50E-03 | 0.00E+00                         | 1.88E-03          | 4.33E-04         | 1.25E-04          | 0.00E+00                |
| Minnesota | Koochiching County   | 27071 | U                    | 1.63E-02                                                                | 2.12E-02 | 3.28E-02 | 4.05E-02 | 1.29E-01 | 1.61E-01 | 2.02E-01 | 2.03E-01 | 0.00E+00                         | 1.10E-01          | 5.26E-03         | 1.37E-02          | 0.00E+00                |
| Minnesota | Lac qui Parle County | 27073 | R                    | 4.01E-04                                                                | 8.02E-04 | 2.00E-03 | 4.21E-03 | 5.00E-03 | 5.85E-03 | 6.03E-03 | 6.09E-03 | 0.00E+00                         | 3.60E-03          | 1.12E-03         | 2.76E-04          | 0.00E+00                |
| Minnesota | Lake County          | 27075 | R                    | 1.55E-02                                                                | 1.62E-02 | 1.83E-02 | 3.57E-02 | 4.91E-02 | 5.85E-02 | 7.05E-02 | 7.45E-02 | 2.19E-10                         | 4.58E-02          | 1.78E-03         | 1.57E-03          | 0.00E+00                |
| Minnesota | Lake of the Woods Co | 27077 | R                    | 1.99E-02                                                                | 1.99E-02 | 2.00E-02 | 2.03E-02 | 2.28E-02 | 2.32E-02 | 2.50E-02 | 2.56E-02 | 0.00E+00                         | 1.06E-02          | 5.06E-04         | 1.17E-02          | 0.00E+00                |
| Minnesota | Le Sueur County      | 27079 | R                    | 1.18E-02                                                                | 1.29E-02 | 1.60E-02 | 1.93E-02 | 1.85E-02 | 2.18E-02 | 2.31E-02 | 2.34E-02 | 2.66E-07                         | 1.50E-02          | 2.64E-03         | 8.82E-04          | 0.00E+00                |
| Minnesota | Lincoln County       | 27081 | R                    | 6.28E-03                                                                | 6.41E-03 | 6.80E-03 | 7.45E-03 | 7.43E-03 | 8.10E-03 | 8.49E-03 | 8.62E-03 | 0.00E+00                         | 6.17E-03          | 9.93E-04         | 2.69E-04          | 0.00E+00                |

| State       | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|             |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|             |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Minnesota   | Lyon County          | 27083 | R                    | 8.92E-03                                                                | 1.09E-02 | 2.18E-02 | 5.81E-02 | 1.17E-01 | 1.96E-01 | 2.63E-01 | 2.63E-01 | 0.00E+00                         | 1.09E-01          | 6.61E-03         | 9.67E-04          | 0.00E+00                |
| Minnesota   | McLeod County        | 27085 | U                    | 8.30E-03                                                                | 9.66E-03 | 1.53E-02 | 9.34E-02 | 1.33E-01 | 2.38E-01 | 2.39E-01 | 2.39E-01 | 2.27E-07                         | 1.20E-01          | 8.55E-03         | 4.56E-03          | 0.00E+00                |
| Minnesota   | Mahnomen County      | 27087 | R                    | 5.31E-03                                                                | 5.33E-03 | 5.37E-03 | 5.45E-03 | 5.43E-03 | 5.52E-03 | 5.57E-03 | 5.58E-03 | 0.00E+00                         | 4.05E-03          | 8.14E-04         | 5.66E-04          | 0.00E+00                |
| Minnesota   | Marshall County      | 27089 | R                    | 2.20E-03                                                                | 2.37E-03 | 2.87E-03 | 3.61E-03 | 4.07E-03 | 4.80E-03 | 6.10E-03 | 6.53E-03 | 0.00E+00                         | 3.31E-03          | 5.25E-04         | 2.31E-04          | 0.00E+00                |
| Minnesota   | Martin County        | 27091 | R                    | 4.86E-03                                                                | 5.65E-03 | 8.30E-03 | 1.35E-02 | 6.69E-02 | 9.62E-02 | 1.25E-01 | 1.26E-01 | 0.00E+00                         | 6.02E-02          | 5.35E-03         | 1.39E-03          | 0.00E+00                |
| Minnesota   | Meeker County        | 27093 | R                    | 1.63E-02                                                                | 1.80E-02 | 2.14E-02 | 6.18E-02 | 1.12E-01 | 2.36E-01 | 2.81E-01 | 2.82E-01 | 1.77E-07                         | 1.03E-01          | 7.24E-03         | 1.87E-03          | 0.00E+00                |
| Minnesota   | Mille Lacs County    | 27095 | R                    | 8.09E-03                                                                | 8.56E-03 | 9.76E-03 | 2.78E-02 | 3.97E-02 | 4.64E-02 | 5.80E-02 | 6.65E-02 | 2.76E-07                         | 3.18E-02          | 5.13E-03         | 2.81E-03          | 0.00E+00                |
| Minnesota   | Morrison County      | 27097 | R                    | 7.36E-03                                                                | 7.40E-03 | 8.12E-03 | 1.71E-02 | 4.13E-02 | 4.42E-02 | 1.14E-01 | 1.25E-01 | 0.00E+00                         | 3.51E-02          | 5.30E-03         | 9.02E-04          | 0.00E+00                |
| Minnesota   | Mower County         | 27099 | U                    | 5.86E-03                                                                | 6.51E-03 | 8.68E-03 | 7.90E-02 | 8.76E-02 | 1.40E-01 | 1.74E-01 | 1.85E-01 | 4.10E-09                         | 7.74E-02          | 6.20E-03         | 4.09E-03          | 0.00E+00                |
| Minnesota   | Murray County        | 27101 | R                    | 3.58E-03                                                                | 4.64E-03 | 7.81E-03 | 1.31E-02 | 1.09E-02 | 1.36E-02 | 1.39E-02 | 1.40E-02 | 0.00E+00                         | 8.48E-03          | 1.90E-03         | 5.37E-04          | 0.00E+00                |
| Minnesota   | Nicollet County      | 27103 | U                    | 5.80E-03                                                                | 6.25E-03 | 2.95E-02 | 1.18E-01 | 1.17E-01 | 1.51E-01 | 2.24E-01 | 2.58E-01 | 1.73E-07                         | 1.05E-01          | 7.35E-03         | 4.70E-03          | 0.00E+00                |
| Minnesota   | Nobles County        | 27105 | U                    | 5.76E-03                                                                | 5.93E-03 | 7.80E-03 | 8.48E-02 | 9.62E-02 | 1.67E-01 | 1.91E-01 | 2.01E-01 | 0.00E+00                         | 8.70E-02          | 5.17E-03         | 4.04E-03          | 0.00E+00                |
| Minnesota   | Norman County        | 27107 | R                    | 2.67E-03                                                                | 2.71E-03 | 2.82E-03 | 3.00E-03 | 3.57E-03 | 4.15E-03 | 4.84E-03 | 5.07E-03 | 0.00E+00                         | 2.47E-03          | 7.70E-04         | 3.36E-04          | 0.00E+00                |
| Minnesota   | Olmsted County       | 27109 | U                    | 3.79E-02                                                                | 4.56E-02 | 7.81E-02 | 1.49E-01 | 1.76E-01 | 3.30E-01 | 4.57E-01 | 7.47E-01 | 2.22E-08                         | 1.44E-01          | 1.93E-02         | 1.28E-02          | 0.00E+00                |
| Minnesota   | Otter Tail County    | 27111 | R                    | 8.31E-03                                                                | 8.39E-03 | 9.08E-03 | 1.29E-02 | 7.84E-02 | 3.68E-02 | 2.38E-01 | 2.38E-01 | 0.00E+00                         | 6.87E-02          | 6.06E-03         | 3.66E-03          | 0.00E+00                |
| Minnesota   | Pennington County    | 27113 | U                    | 1.79E-02                                                                | 2.15E-02 | 3.26E-02 | 1.91E-01 | 1.35E-01 | 1.92E-01 | 1.93E-01 | 1.93E-01 | 0.00E+00                         | 1.24E-01          | 5.91E-03         | 4.69E-03          | 0.00E+00                |
| Minnesota   | Pine County          | 27115 | R                    | 9.16E-03                                                                | 9.25E-03 | 9.72E-03 | 1.05E-02 | 2.15E-02 | 1.81E-02 | 3.83E-02 | 5.77E-02 | 1.52E-06                         | 1.87E-02          | 2.29E-03         | 4.65E-04          | 0.00E+00                |
| Minnesota   | Pipestone County     | 27117 | R                    | 3.85E-03                                                                | 4.19E-03 | 5.21E-03 | 5.25E-03 | 7.23E-02 | 1.60E-01 | 1.60E-01 | 1.60E-01 | 0.00E+00                         | 6.77E-02          | 4.12E-03         | 4.92E-04          | 0.00E+00                |
| Minnesota   | Polk County          | 27119 | U                    | 2.32E-03                                                                | 2.52E-03 | 3.18E-03 | 1.66E-02 | 3.23E-02 | 5.75E-02 | 6.72E-02 | 6.73E-02 | 0.00E+00                         | 2.34E-02          | 5.09E-03         | 3.79E-03          | 0.00E+00                |
| Minnesota   | Pope County          | 27121 | R                    | 4.51E-03                                                                | 5.09E-03 | 6.81E-03 | 8.88E-03 | 1.76E-02 | 1.84E-02 | 3.34E-02 | 3.84E-02 | 0.00E+00                         | 1.52E-02          | 1.77E-03         | 6.05E-04          | 0.00E+00                |
| Minnesota   | Ramsey County        | 27123 | U                    | 1.64E-01                                                                | 2.05E-01 | 2.47E-01 | 3.06E-01 | 3.54E-01 | 4.09E-01 | 6.16E-01 | 8.45E-01 | 1.02E-04                         | 2.71E-01          | 6.38E-02         | 1.89E-02          | 0.00E+00                |
| Minnesota   | Red Lake County      | 27125 | R                    | 3.26E-03                                                                | 3.36E-03 | 3.65E-03 | 4.13E-03 | 4.20E-03 | 4.62E-03 | 4.91E-03 | 5.01E-03 | 0.00E+00                         | 3.41E-03          | 5.90E-04         | 1.99E-04          | 0.00E+00                |
| Minnesota   | Redwood County       | 27127 | R                    | 3.07E-03                                                                | 3.17E-03 | 3.63E-03 | 6.16E-03 | 4.01E-02 | 9.29E-02 | 1.21E-01 | 1.22E-01 | 9.38E-12                         | 3.71E-02          | 2.69E-03         | 3.53E-04          | 0.00E+00                |
| Minnesota   | Renville County      | 27129 | R                    | 3.62E-03                                                                | 3.87E-03 | 4.51E-03 | 5.13E-03 | 8.75E-03 | 6.12E-03 | 1.56E-02 | 2.02E-02 | 2.99E-10                         | 7.14E-03          | 1.30E-03         | 3.03E-04          | 0.00E+00                |
| Minnesota   | Rice County          | 27131 | U                    | 2.55E-02                                                                | 2.86E-02 | 3.64E-02 | 1.51E-01 | 1.60E-01 | 2.25E-01 | 2.38E-01 | 2.54E-01 | 3.59E-06                         | 1.44E-01          | 1.05E-02         | 5.94E-03          | 0.00E+00                |
| Minnesota   | Rock County          | 27133 | R                    | 8.20E-03                                                                | 8.63E-03 | 9.93E-03 | 1.21E-02 | 5.55E-02 | 7.37E-02 | 1.11E-01 | 1.23E-01 | 0.00E+00                         | 5.10E-02          | 3.52E-03         | 9.09E-04          | 0.00E+00                |
| Minnesota   | Roseau County        | 27135 | R                    | 2.90E-03                                                                | 3.42E-03 | 4.99E-03 | 6.20E-03 | 8.37E-03 | 1.00E-02 | 1.27E-02 | 1.36E-02 | 0.00E+00                         | 6.93E-03          | 1.15E-03         | 2.89E-04          | 0.00E+00                |
| Minnesota   | St. Louis County     | 27137 | U                    | 1.61E-02                                                                | 2.75E-02 | 4.94E-02 | 1.30E-01 | 1.76E-01 | 2.47E-01 | 4.40E-01 | 5.96E-01 | 4.09E-09                         | 1.53E-01          | 1.04E-02         | 1.26E-02          | 0.00E+00                |
| Minnesota   | Scott County         | 27139 | U                    | 2.26E-02                                                                | 3.24E-02 | 5.77E-02 | 1.24E-01 | 1.29E-01 | 1.80E-01 | 2.66E-01 | 3.82E-01 | 7.51E-06                         | 1.07E-01          | 1.40E-02         | 7.19E-03          | 0.00E+00                |
| Minnesota   | Sherburne County     | 27141 | U                    | 5.70E-02                                                                | 5.84E-02 | 6.29E-02 | 9.06E-02 | 1.62E-01 | 1.90E-01 | 1.37E+00 | 2.21E+00 | 7.88E-07                         | 1.20E-01          | 9.52E-03         | 3.22E-02          | 0.00E+00                |
| Minnesota   | Sibley County        | 27143 | R                    | 5.97E-03                                                                | 6.98E-03 | 1.00E-02 | 1.21E-02 | 1.05E-02 | 1.26E-02 | 1.29E-02 | 1.30E-02 | 1.01E-07                         | 7.69E-03          | 2.14E-03         | 6.28E-04          | 0.00E+00                |
| Minnesota   | Stearns County       | 27145 | R                    | 1.08E-02                                                                | 1.30E-02 | 3.01E-02 | 5.33E-02 | 1.62E-01 | 2.32E-01 | 5.88E-01 | 6.63E-01 | 8.48E-08                         | 1.42E-01          | 1.38E-02         | 6.09E-03          | 0.00E+00                |
| Minnesota   | Steele County        | 27147 | U                    | 1.55E-02                                                                | 1.92E-02 | 3.72E-02 | 1.40E-01 | 1.39E-01 | 2.13E-01 | 2.62E-01 | 2.82E-01 | 8.21E-08                         | 1.26E-01          | 8.57E-03         | 4.45E-03          | 0.00E+00                |
| Minnesota   | Stevens County       | 27149 | U                    | 4.05E-03                                                                | 4.54E-03 | 6.00E-03 | 8.43E-03 | 1.60E-02 | 2.01E-02 | 2.71E-02 | 2.95E-02 | 0.00E+00                         | 1.34E-02          | 1.76E-03         | 8.71E-04          | 0.00E+00                |
| Minnesota   | Swift County         | 27151 | R                    | 5.04E-03                                                                | 5.31E-03 | 6.11E-03 | 7.63E-03 | 1.98E-02 | 1.86E-02 | 3.64E-02 | 4.23E-02 | 0.00E+00                         | 1.73E-02          | 2.16E-03         | 3.53E-04          | 0.00E+00                |
| Minnesota   | Todd County          | 27153 | R                    | 7.20E-03                                                                | 7.41E-03 | 7.63E-03 | 8.47E-03 | 1.53E-02 | 1.37E-02 | 2.84E-02 | 3.65E-02 | 1.04E-13                         | 1.24E-02          | 1.79E-03         | 1.18E-03          | 0.00E+00                |
| Minnesota   | Traverse County      | 27155 | R                    | 2.06E-03                                                                | 2.12E-03 | 2.28E-03 | 2.55E-03 | 2.62E-03 | 2.82E-03 | 2.98E-03 | 3.04E-03 | 0.00E+00                         | 1.69E-03          | 6.77E-04         | 2.50E-04          | 0.00E+00                |
| Minnesota   | Wabasha County       | 27157 | R                    | 7.95E-03                                                                | 8.23E-03 | 9.84E-03 | 2.13E-02 | 3.74E-02 | 6.32E-02 | 8.50E-02 | 9.03E-02 | 3.13E-07                         | 3.33E-02          | 3.02E-03         | 1.07E-03          | 0.00E+00                |
| Minnesota   | Wadena County        | 27159 | R                    | 8.64E-04                                                                | 1.73E-03 | 4.32E-03 | 7.92E-03 | 2.05E-02 | 1.75E-02 | 3.09E-02 | 3.53E-02 | 0.00E+00                         | 1.76E-02          | 2.11E-03         | 8.27E-04          | 0.00E+00                |
| Minnesota   | Waseca County        | 27161 | R                    | 1.97E-02                                                                | 2.06E-02 | 2.33E-02 | 2.95E-02 | 8.44E-02 | 1.46E-01 | 1.46E-01 | 1.46E-01 | 2.52E-08                         | 7.72E-02          | 6.21E-03         | 1.02E-03          | 0.00E+00                |
| Minnesota   | Washington County    | 27163 | U                    | 8.00E-02                                                                | 9.85E-02 | 1.09E-01 | 1.69E-01 | 2.07E-01 | 2.29E-01 | 3.46E-01 | 6.56E-01 | 2.58E-04                         | 1.72E-01          | 2.53E-02         | 8.87E-03          | 0.00E+00                |
| Minnesota   | Watsonwan County     | 27165 | R                    | 4.04E-03                                                                | 4.17E-03 | 4.55E-03 | 5.17E-03 | 4.43E-02 | 5.71E-02 | 8.83E-02 | 9.87E-02 | 0.00E+00                         | 4.12E-02          | 2.62E-03         | 4.65E-04          | 0.00E+00                |
| Minnesota   | Wilkin County        | 27167 | R                    | 6.07E-03                                                                | 1.05E-02 | 2.39E-02 | 4.62E-02 | 4.60E-02 | 6.84E-02 | 8.18E-02 | 8.62E-02 | 0.00E+00                         | 4.13E-02          | 3.05E-03         | 1.70E-03          | 0.00E+00                |
| Minnesota   | Winona County        | 27169 | U                    | 1.49E-02                                                                | 1.65E-02 | 2.07E-02 | 9.83E-02 | 1.43E-01 | 2.63E-01 | 2.90E-01 | 3.54E-01 | 6.47E-09                         | 1.29E-01          | 9.09E-03         | 5.31E-03          | 0.00E+00                |
| Minnesota   | Wright County        | 27171 | U                    | 3.62E-02                                                                | 4.10E-02 | 4.64E-02 | 7.21E-02 | 1.02E-01 | 1.39E-01 | 1.89E-01 | 2.05E-01 | 7.01E-07                         | 6.82E-02          | 1.05E-02         | 2.30E-02          | 0.00E+00                |
| Minnesota   | Yellow Medicine Coun | 27173 | R                    | 2.07E-03                                                                | 2.22E-03 | 2.69E-03 | 6.06E-03 | 6.36E-03 | 9.32E-03 | 9.58E-03 | 9.67E-03 | 2.90E-13                         | 5.01E-03          | 1.04E-03         | 3.11E-04          | 0.00E+00                |
| Mississippi | Statewide            | 28000 | -                    | 6.52E-03                                                                | 8.50E-03 | 1.15E-02 | 2.61E-02 | 3.45E-02 | 5.46E-02 | 7.33E-02 | 8.78E-02 | 1.76E-05                         | 1.03E-02          | 2.05E-02         | 3.79E-03          | 0.00E+00                |
| Mississippi | State Urban Counties | 28000 | U                    | 1.02E-02                                                                | 1.37E-02 | 2.56E-02 | 4.56E-02 | 4.61E-02 | 6.28E-02 | 8.23E-02 | 1.07E-01 | 2.87E-05                         | 6.65E-03          | 3.25E-02         | 7.00E-03          | 0.00E+00                |
| Mississippi | State Rural Counties | 28000 | R                    | 5.76E-03                                                                | 7.47E-03 | 9.59E-03 | 1.31E-02 | 2.43E-02 | 2.90E-02 | 5.88E-02 | 7.26E-02 | 7.72E-06                         | 1.35E-02          | 9.90E-03         | 9.53E-04          | 0.00E+00                |
| Mississippi | Adams County         | 28001 | U                    | 1.19E-02                                                                | 1.30E-02 | 2.14E-02 | 5.64E-02 | 4.43E-02 | 6.24E-02 | 6.70E-02 | 6.74E-02 | 1.23E-06                         | 2.07E-02          | 1.79E-02         | 5.75E-03          | 0.00E+00                |
| Mississippi | Alcorn County        | 28003 | R                    | 9.62E-03                                                                | 9.84E-03 | 1.11E-02 | 1.33E-02 | 1.70E-02 | 1.66E-02 | 2.57E-02 | 3.03E-02 | 4.67E-08                         | 5.02E-03          | 1.09E-02         | 1.12E-03          | 0.00E+00                |
| Mississippi | Amite County         | 28005 | R                    | 9.83E-03                                                                | 9.95E-03 | 1.03E-02 | 1.09E-02 | 1.05E-02 | 1.10E-02 | 1.11E-02 | 1.11E-02 | 3.59E-05                         | 6.64E-03          | 3.51E-03         | 3.57E-04          | 0.00E+00                |

| State       | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|             |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|             |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Mississippi | Attala County        | 28007 | R                    | 1.46E-02                                                                | 1.52E-02 | 1.66E-02 | 1.70E-02 | 4.20E-02 | 6.45E-02 | 8.28E-02 | 8.40E-02 | 0.00E+00                         | 3.16E-02          | 9.83E-03         | 5.70E-04          | 0.00E+00                |
| Mississippi | Benton County        | 28009 | R                    | 6.83E-03                                                                | 7.02E-03 | 7.59E-03 | 8.54E-03 | 7.66E-03 | 9.50E-03 | 1.01E-02 | 1.03E-02 | 1.73E-05                         | 4.20E-03          | 2.96E-03         | 4.83E-04          | 0.00E+00                |
| Mississippi | Bolivar County       | 28011 | R                    | 5.21E-03                                                                | 5.81E-03 | 6.80E-03 | 9.14E-03 | 1.63E-02 | 2.34E-02 | 2.88E-02 | 2.89E-02 | 0.00E+00                         | 6.59E-04          | 1.45E-02         | 1.09E-03          | 0.00E+00                |
| Mississippi | Calhoun County       | 28013 | R                    | 8.90E-03                                                                | 8.94E-03 | 9.05E-03 | 9.32E-03 | 2.52E-02 | 4.80E-02 | 6.42E-02 | 6.96E-02 | 2.46E-07                         | 1.85E-02          | 6.23E-03         | 5.47E-04          | 0.00E+00                |
| Mississippi | Carroll County       | 28015 | R                    | 7.77E-03                                                                | 7.89E-03 | 8.25E-03 | 8.86E-03 | 7.78E-03 | 9.46E-03 | 9.82E-03 | 9.94E-03 | 0.00E+00                         | 5.21E-03          | 3.22E-03         | 3.57E-04          | 0.00E+00                |
| Mississippi | Chickasaw County     | 28017 | R                    | 6.68E-03                                                                | 6.82E-03 | 7.23E-03 | 8.45E-03 | 1.18E-02 | 1.30E-02 | 1.93E-02 | 2.14E-02 | 0.00E+00                         | 6.61E-03          | 4.45E-03         | 7.34E-04          | 0.00E+00                |
| Mississippi | Choctaw County       | 28019 | R                    | 8.12E-03                                                                | 8.35E-03 | 9.02E-03 | 1.01E-02 | 1.87E-02 | 3.57E-02 | 5.10E-02 | 5.61E-02 | 0.00E+00                         | 1.46E-02          | 3.81E-03         | 2.41E-04          | 0.00E+00                |
| Mississippi | Claiborne County     | 28021 | R                    | 1.44E-02                                                                | 1.60E-02 | 2.10E-02 | 2.93E-02 | 6.57E-02 | 1.63E-01 | 2.44E-01 | 2.71E-01 | 0.00E+00                         | 5.70E-02          | 8.09E-03         | 6.66E-04          | 0.00E+00                |
| Mississippi | Clarke County        | 28023 | R                    | 9.37E-03                                                                | 9.62E-03 | 1.04E-02 | 1.13E-02 | 1.52E-02 | 1.75E-02 | 2.76E-02 | 3.10E-02 | 0.00E+00                         | 1.06E-02          | 4.05E-03         | 4.63E-04          | 0.00E+00                |
| Mississippi | Clay County          | 28025 | R                    | 7.28E-03                                                                | 7.60E-03 | 8.56E-03 | 9.30E-03 | 2.43E-02 | 3.21E-02 | 5.04E-02 | 5.64E-02 | 0.00E+00                         | 9.44E-03          | 1.37E-02         | 1.09E-03          | 0.00E+00                |
| Mississippi | Coahoma County       | 28027 | U                    | 5.37E-03                                                                | 6.64E-03 | 8.86E-03 | 3.36E-02 | 2.51E-02 | 3.50E-02 | 4.11E-02 | 4.57E-02 | 1.05E-06                         | 4.49E-03          | 1.54E-02         | 5.24E-03          | 0.00E+00                |
| Mississippi | Copiah County        | 28029 | R                    | 1.04E-02                                                                | 1.05E-02 | 1.11E-02 | 1.28E-02 | 3.24E-02 | 4.45E-02 | 6.13E-02 | 6.45E-02 | 0.00E+00                         | 1.94E-02          | 1.19E-02         | 1.08E-03          | 0.00E+00                |
| Mississippi | Covington County     | 28031 | R                    | 8.55E-03                                                                | 8.71E-03 | 9.20E-03 | 1.04E-02 | 1.58E-02 | 2.33E-02 | 4.49E-02 | 5.22E-02 | 0.00E+00                         | 9.17E-03          | 6.02E-03         | 6.29E-04          | 0.00E+00                |
| Mississippi | DeSoto County        | 28033 | U                    | 1.33E-02                                                                | 1.56E-02 | 2.04E-02 | 2.44E-02 | 3.02E-02 | 2.95E-02 | 4.75E-02 | 5.23E-02 | 4.99E-04                         | 2.28E-03          | 2.20E-02         | 5.42E-03          | 0.00E+00                |
| Mississippi | Forrest County       | 28035 | U                    | 1.57E-02                                                                | 2.13E-02 | 4.15E-02 | 5.37E-02 | 5.28E-02 | 6.38E-02 | 8.57E-02 | 1.05E-01 | 7.10E-10                         | 1.02E-02          | 3.74E-02         | 5.26E-03          | 0.00E+00                |
| Mississippi | Franklin County      | 28037 | R                    | 1.04E-02                                                                | 1.04E-02 | 1.05E-02 | 1.08E-02 | 1.06E-02 | 1.10E-02 | 1.11E-02 | 1.11E-02 | 2.54E-06                         | 7.53E-03          | 2.73E-03         | 3.48E-04          | 0.00E+00                |
| Mississippi | George County        | 28039 | R                    | 1.23E-02                                                                | 1.24E-02 | 1.27E-02 | 1.32E-02 | 2.06E-02 | 3.96E-02 | 5.54E-02 | 6.07E-02 | 3.89E-05                         | 1.27E-02          | 6.80E-03         | 1.08E-03          | 0.00E+00                |
| Mississippi | Greene County        | 28041 | R                    | 9.23E-03                                                                | 9.26E-03 | 9.37E-03 | 9.55E-03 | 9.55E-03 | 9.74E-03 | 9.85E-03 | 9.88E-03 | 1.97E-06                         | 6.68E-03          | 2.52E-03         | 3.55E-04          | 0.00E+00                |
| Mississippi | Grenada County       | 28043 | R                    | 1.52E-02                                                                | 1.54E-02 | 1.59E-02 | 4.86E-02 | 5.17E-02 | 7.71E-02 | 1.03E-01 | 1.12E-01 | 0.00E+00                         | 3.12E-02          | 1.81E-02         | 2.40E-03          | 0.00E+00                |
| Mississippi | Hancock County       | 28045 | U                    | 1.18E-02                                                                | 1.22E-02 | 1.55E-02 | 2.68E-02 | 2.45E-02 | 3.16E-02 | 3.54E-02 | 3.71E-02 | 1.64E-05                         | 5.20E-03          | 1.46E-02         | 4.73E-03          | 0.00E+00                |
| Mississippi | Harrison County      | 28047 | U                    | 2.65E-02                                                                | 2.80E-02 | 4.07E-02 | 5.60E-02 | 5.12E-02 | 6.30E-02 | 7.42E-02 | 8.65E-02 | 6.22E-07                         | 5.25E-03          | 3.49E-02         | 1.10E-02          | 0.00E+00                |
| Mississippi | Hinds County         | 28049 | U                    | 2.57E-02                                                                | 4.63E-02 | 5.59E-02 | 7.05E-02 | 7.37E-02 | 8.78E-02 | 1.36E-01 | 1.57E-01 | 0.00E+00                         | 3.21E-03          | 6.18E-02         | 8.67E-03          | 0.00E+00                |
| Mississippi | Holmes County        | 28051 | R                    | 5.27E-03                                                                | 5.66E-03 | 6.81E-03 | 7.61E-03 | 8.22E-03 | 9.23E-03 | 1.03E-02 | 1.07E-02 | 0.00E+00                         | 4.57E-03          | 3.31E-03         | 3.41E-04          | 0.00E+00                |
| Mississippi | Humphreys County     | 28053 | R                    | 4.86E-03                                                                | 4.99E-03 | 5.37E-03 | 6.01E-03 | 1.96E-02 | 2.28E-02 | 3.29E-02 | 3.62E-02 | 0.00E+00                         | 1.06E-02          | 8.43E-03         | 5.82E-04          | 0.00E+00                |
| Mississippi | Issaquena County     | 28055 | R                    | 7.70E-03                                                                | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 7.70E-03 | 0.00E+00                         | 4.77E-03          | 2.35E-03         | 5.86E-04          | 0.00E+00                |
| Mississippi | Itawamba County      | 28057 | R                    | 1.00E-02                                                                | 1.07E-02 | 1.26E-02 | 1.27E-02 | 1.69E-02 | 1.55E-02 | 3.07E-02 | 3.58E-02 | 0.00E+00                         | 9.77E-03          | 6.34E-03         | 7.85E-04          | 0.00E+00                |
| Mississippi | Jackson County       | 28059 | U                    | 9.38E-03                                                                | 1.57E-02 | 2.55E-02 | 4.31E-02 | 4.23E-02 | 5.31E-02 | 5.84E-02 | 6.64E-02 | 7.13E-07                         | 6.94E-03          | 2.69E-02         | 8.51E-03          | 0.00E+00                |
| Mississippi | Jasper County        | 28061 | R                    | 1.07E-02                                                                | 1.08E-02 | 1.09E-02 | 1.20E-02 | 1.33E-02 | 1.56E-02 | 2.04E-02 | 2.20E-02 | 0.00E+00                         | 8.36E-03          | 4.59E-03         | 3.41E-04          | 0.00E+00                |
| Mississippi | Jefferson County     | 28063 | R                    | 2.01E-01                                                                | 2.01E-01 | 2.01E-01 | 2.01E-01 | 2.01E-01 | 2.01E-01 | 2.01E-01 | 2.01E-01 | 0.00E+00                         | 1.89E-01          | 1.10E-02         | 1.36E-03          | 0.00E+00                |
| Mississippi | Jefferson Davis Coun | 28065 | R                    | 1.06E-02                                                                | 1.06E-02 | 1.07E-02 | 1.07E-02 | 1.07E-02 | 1.08E-02 | 1.08E-02 | 1.08E-02 | 0.00E+00                         | 5.09E-03          | 5.17E-03         | 4.41E-04          | 0.00E+00                |
| Mississippi | Jones County         | 28067 | R                    | 1.50E-02                                                                | 1.60E-02 | 1.71E-02 | 1.90E-02 | 2.90E-02 | 4.28E-02 | 4.83E-02 | 5.27E-02 | 0.00E+00                         | 1.11E-02          | 1.68E-02         | 1.19E-03          | 0.00E+00                |
| Mississippi | Kemper County        | 28069 | R                    | 8.84E-03                                                                | 8.85E-03 | 8.91E-03 | 8.99E-03 | 8.98E-03 | 9.08E-03 | 9.13E-03 | 9.15E-03 | 0.00E+00                         | 6.27E-03          | 2.42E-03         | 2.92E-04          | 0.00E+00                |
| Mississippi | Lafayette County     | 28071 | R                    | 1.77E-02                                                                | 1.83E-02 | 2.02E-02 | 2.22E-02 | 4.04E-02 | 6.26E-02 | 6.58E-02 | 6.69E-02 | 3.55E-07                         | 2.39E-02          | 1.51E-02         | 1.36E-03          | 0.00E+00                |
| Mississippi | Lamar County         | 28073 | R                    | 1.18E-02                                                                | 1.19E-02 | 1.27E-02 | 1.44E-02 | 1.91E-02 | 1.91E-02 | 2.47E-02 | 2.67E-02 | 2.97E-12                         | 6.08E-03          | 1.17E-02         | 1.29E-03          | 0.00E+00                |
| Mississippi | Lauderdale County    | 28075 | U                    | 1.51E-02                                                                | 1.60E-02 | 1.77E-02 | 4.16E-02 | 3.45E-02 | 4.75E-02 | 6.80E-02 | 7.09E-02 | 0.00E+00                         | 1.45E-02          | 1.70E-02         | 3.04E-03          | 0.00E+00                |
| Mississippi | Lawrence County      | 28077 | R                    | 1.01E-02                                                                | 1.04E-02 | 1.13E-02 | 1.28E-02 | 1.21E-02 | 1.33E-02 | 1.36E-02 | 1.37E-02 | 0.00E+00                         | 6.94E-03          | 4.74E-03         | 4.50E-04          | 0.00E+00                |
| Mississippi | Leake County         | 28079 | R                    | 8.38E-03                                                                | 8.62E-03 | 9.34E-03 | 9.35E-03 | 1.30E-02 | 1.01E-02 | 2.08E-02 | 2.44E-02 | 0.00E+00                         | 7.90E-03          | 4.58E-03         | 4.76E-04          | 0.00E+00                |
| Mississippi | Lee County           | 28081 | U                    | 1.24E-02                                                                | 1.24E-02 | 1.45E-02 | 1.57E-02 | 2.49E-02 | 3.67E-02 | 4.56E-02 | 5.19E-02 | 0.00E+00                         | 2.67E-03          | 1.66E-02         | 5.66E-03          | 0.00E+00                |
| Mississippi | Leflore County       | 28083 | R                    | 5.82E-03                                                                | 5.87E-03 | 6.73E-03 | 1.68E-02 | 1.82E-02 | 2.59E-02 | 3.13E-02 | 3.58E-02 | 0.00E+00                         | 2.75E-03          | 1.41E-02         | 1.26E-03          | 0.00E+00                |
| Mississippi | Lincoln County       | 28085 | R                    | 2.13E-02                                                                | 2.14E-02 | 2.17E-02 | 2.27E-02 | 5.06E-02 | 7.40E-02 | 9.45E-02 | 9.63E-02 | 0.00E+00                         | 2.79E-02          | 2.12E-02         | 1.51E-03          | 0.00E+00                |
| Mississippi | Lowndes County       | 28087 | R                    | 1.15E-02                                                                | 1.23E-02 | 1.70E-02 | 2.80E-02 | 3.14E-02 | 4.42E-02 | 4.91E-02 | 5.50E-02 | 2.11E-09                         | 9.59E-03          | 2.01E-02         | 1.69E-03          | 0.00E+00                |
| Mississippi | Madison County       | 28089 | U                    | 1.27E-02                                                                | 1.29E-02 | 1.47E-02 | 3.91E-02 | 3.67E-02 | 5.08E-02 | 5.84E-02 | 7.73E-02 | 0.00E+00                         | 6.36E-03          | 2.51E-02         | 5.30E-03          | 0.00E+00                |
| Mississippi | Marion County        | 28091 | R                    | 1.31E-02                                                                | 1.35E-02 | 1.51E-02 | 1.73E-02 | 3.29E-02 | 5.87E-02 | 7.25E-02 | 7.25E-02 | 9.11E-12                         | 1.76E-02          | 1.41E-02         | 1.20E-03          | 0.00E+00                |
| Mississippi | Marshall County      | 28093 | R                    | 1.00E-02                                                                | 1.01E-02 | 1.04E-02 | 1.13E-02 | 1.47E-02 | 1.17E-02 | 2.05E-02 | 2.34E-02 | 9.05E-05                         | 6.18E-03          | 7.23E-03         | 1.20E-03          | 0.00E+00                |
| Mississippi | Monroe County        | 28095 | R                    | 7.64E-03                                                                | 7.82E-03 | 1.01E-02 | 2.32E-02 | 2.43E-02 | 4.24E-02 | 5.48E-02 | 5.49E-02 | 2.54E-08                         | 1.29E-02          | 9.97E-03         | 1.36E-03          | 0.00E+00                |
| Mississippi | Montgomery County    | 28097 | R                    | 7.65E-03                                                                | 8.11E-03 | 9.50E-03 | 1.18E-02 | 1.26E-02 | 1.37E-02 | 1.48E-02 | 1.51E-02 | 0.00E+00                         | 7.89E-03          | 4.25E-03         | 4.01E-04          | 0.00E+00                |
| Mississippi | Neshoba County       | 28099 | R                    | 8.05E-03                                                                | 8.46E-03 | 9.36E-03 | 1.00E-02 | 1.85E-02 | 2.65E-02 | 3.85E-02 | 4.58E-02 | 0.00E+00                         | 1.09E-02          | 7.07E-03         | 4.66E-04          | 0.00E+00                |
| Mississippi | Newton County        | 28101 | R                    | 8.38E-03                                                                | 8.49E-03 | 8.82E-03 | 9.90E-03 | 1.63E-02 | 1.06E-02 | 3.19E-02 | 3.90E-02 | 0.00E+00                         | 1.07E-02          | 5.21E-03         | 4.61E-04          | 0.00E+00                |
| Mississippi | Noxubee County       | 28103 | R                    | 1.16E-02                                                                | 1.16E-02 | 1.16E-02 | 1.16E-02 | 2.00E-02 | 3.31E-02 | 4.59E-02 | 5.02E-02 | 2.75E-09                         | 1.37E-02          | 5.68E-03         | 6.19E-04          | 0.00E+00                |
| Mississippi | Oktibbeha County     | 28105 | U                    | 1.04E-02                                                                | 1.06E-02 | 1.12E-02 | 2.84E-02 | 3.44E-02 | 4.52E-02 | 5.91E-02 | 6.11E-02 | 0.00E+00                         | 1.22E-02          | 1.90E-02         | 3.21E-03          | 0.00E+00                |
| Mississippi | Panola County        | 28107 | R                    | 5.73E-03                                                                | 5.75E-03 | 5.98E-03 | 7.34E-03 | 1.13E-02 | 1.72E-02 | 2.19E-02 | 2.28E-02 | 3.51E-06                         | 4.64E-03          | 6.06E-03         | 6.08E-04          | 0.00E+00                |
| Mississippi | Pearl River County   | 28109 | R                    | 1.00E-02                                                                | 1.01E-02 | 1.03E-02 | 1.61E-02 | 2.09E-02 | 3.17E-02 | 4.92E-02 | 5.54E-02 | 9.29E-05                         | 1.07E-02          | 8.84E-03         | 1.26E-03          | 0.00E+00                |

| State       | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|             |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|             |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Mississippi | Perry County         | 28111 | R                    | 8.48E-03                                                                | 8.55E-03 | 8.75E-03 | 9.08E-03 | 9.30E-03 | 9.41E-03 | 9.62E-03 | 9.68E-03 | 1.78E-13                         | 5.90E-03          | 3.04E-03         | 3.70E-04          | 0.00E+00                |
| Mississippi | Pike County          | 28113 | R                    | 1.72E-02                                                                | 1.83E-02 | 2.45E-02 | 3.38E-02 | 3.81E-02 | 5.50E-02 | 7.28E-02 | 7.54E-02 | 4.29E-06                         | 1.30E-02          | 2.32E-02         | 1.94E-03          | 0.00E+00                |
| Mississippi | Pontotoc County      | 28115 | R                    | 8.17E-03                                                                | 8.39E-03 | 9.08E-03 | 9.67E-03 | 1.40E-02 | 1.09E-02 | 2.26E-02 | 2.65E-02 | 2.52E-07                         | 6.04E-03          | 7.05E-03         | 8.49E-04          | 0.00E+00                |
| Mississippi | Prentiss County      | 28117 | R                    | 8.48E-03                                                                | 8.70E-03 | 9.39E-03 | 9.40E-03 | 1.82E-02 | 2.60E-02 | 3.35E-02 | 3.60E-02 | 0.00E+00                         | 8.71E-03          | 8.40E-03         | 1.09E-03          | 0.00E+00                |
| Mississippi | Quitman County       | 28119 | R                    | 3.64E-03                                                                | 3.77E-03 | 4.13E-03 | 4.75E-03 | 9.37E-03 | 1.47E-02 | 2.07E-02 | 2.27E-02 | 1.70E-06                         | 3.49E-03          | 5.33E-03         | 5.50E-04          | 0.00E+00                |
| Mississippi | Rankin County        | 28121 | U                    | 1.90E-02                                                                | 2.05E-02 | 2.81E-02 | 3.79E-02 | 4.15E-02 | 6.19E-02 | 8.07E-02 | 9.03E-02 | 0.00E+00                         | 6.94E-03          | 2.82E-02         | 6.40E-03          | 0.00E+00                |
| Mississippi | Scott County         | 28123 | R                    | 9.89E-03                                                                | 1.01E-02 | 1.10E-02 | 2.48E-02 | 2.69E-02 | 4.55E-02 | 4.83E-02 | 4.84E-02 | 0.00E+00                         | 1.84E-02          | 7.74E-03         | 8.10E-04          | 0.00E+00                |
| Mississippi | Sharkey County       | 28125 | R                    | 9.42E-03                                                                | 1.11E-02 | 1.62E-02 | 2.46E-02 | 1.94E-02 | 3.31E-02 | 3.82E-02 | 3.99E-02 | 0.00E+00                         | 1.02E-02          | 8.21E-03         | 9.82E-04          | 0.00E+00                |
| Mississippi | Simpson County       | 28127 | R                    | 1.26E-02                                                                | 1.29E-02 | 1.39E-02 | 1.56E-02 | 2.27E-02 | 2.46E-02 | 4.26E-02 | 4.87E-02 | 0.00E+00                         | 1.16E-02          | 1.00E-02         | 1.02E-03          | 0.00E+00                |
| Mississippi | Smith County         | 28129 | R                    | 8.16E-03                                                                | 8.25E-03 | 8.53E-03 | 9.00E-03 | 8.92E-03 | 9.42E-03 | 9.67E-03 | 9.75E-03 | 0.00E+00                         | 5.24E-03          | 3.38E-03         | 2.96E-04          | 0.00E+00                |
| Mississippi | Stone County         | 28131 | R                    | 2.08E-02                                                                | 2.36E-02 | 3.17E-02 | 4.54E-02 | 3.52E-02 | 5.91E-02 | 6.73E-02 | 7.00E-02 | 6.50E-11                         | 2.83E-02          | 5.90E-03         | 1.04E-03          | 0.00E+00                |
| Mississippi | Sunflower County     | 28133 | R                    | 4.11E-03                                                                | 4.13E-03 | 4.22E-03 | 4.40E-03 | 9.89E-03 | 4.51E-03 | 1.34E-02 | 1.79E-02 | 0.00E+00                         | 8.56E-04          | 8.25E-03         | 7.80E-04          | 0.00E+00                |
| Mississippi | Tallahatchie County  | 28135 | R                    | 4.37E-03                                                                | 4.59E-03 | 5.22E-03 | 1.01E-01 | 9.70E-02 | 1.97E-01 | 1.99E-01 | 1.99E-01 | 8.97E-07                         | 8.30E-02          | 1.32E-02         | 7.69E-04          | 0.00E+00                |
| Mississippi | Tate County          | 28137 | R                    | 9.79E-03                                                                | 9.85E-03 | 1.00E-02 | 1.03E-02 | 1.35E-02 | 1.41E-02 | 2.06E-02 | 2.28E-02 | 6.57E-05                         | 3.17E-03          | 8.86E-03         | 1.38E-03          | 0.00E+00                |
| Mississippi | Tippah County        | 28139 | R                    | 1.12E-02                                                                | 1.19E-02 | 1.42E-02 | 1.61E-02 | 2.19E-02 | 2.79E-02 | 4.81E-02 | 5.48E-02 | 3.28E-06                         | 1.33E-02          | 7.53E-03         | 9.99E-04          | 0.00E+00                |
| Mississippi | Tishomingo County    | 28141 | R                    | 9.62E-03                                                                | 9.67E-03 | 9.82E-03 | 1.04E-02 | 1.54E-02 | 1.97E-02 | 3.57E-02 | 4.11E-02 | 2.26E-07                         | 8.97E-03          | 5.70E-03         | 7.50E-04          | 0.00E+00                |
| Mississippi | Tunica County        | 28143 | R                    | 5.44E-03                                                                | 5.94E-03 | 7.42E-03 | 9.88E-03 | 1.03E-02 | 1.24E-02 | 1.38E-02 | 1.43E-02 | 7.73E-05                         | 5.21E-03          | 4.15E-03         | 8.20E-04          | 0.00E+00                |
| Mississippi | Union County         | 28145 | R                    | 1.02E-02                                                                | 1.06E-02 | 1.14E-02 | 1.25E-02 | 1.71E-02 | 1.35E-02 | 2.64E-02 | 3.28E-02 | 4.50E-07                         | 7.13E-03          | 9.06E-03         | 8.77E-04          | 0.00E+00                |
| Mississippi | Walthall County      | 28147 | R                    | 1.68E-02                                                                | 1.70E-02 | 1.78E-02 | 1.92E-02 | 2.72E-02 | 5.18E-02 | 7.13E-02 | 7.78E-02 | 3.68E-07                         | 1.77E-02          | 8.73E-03         | 7.12E-04          | 0.00E+00                |
| Mississippi | Warren County        | 28149 | U                    | 1.19E-02                                                                | 1.38E-02 | 2.00E-02 | 3.57E-02 | 3.50E-02 | 4.95E-02 | 6.72E-02 | 6.92E-02 | 0.00E+00                         | 1.24E-02          | 1.92E-02         | 3.47E-03          | 0.00E+00                |
| Mississippi | Washington County    | 28151 | U                    | 4.03E-03                                                                | 4.16E-03 | 6.68E-03 | 2.45E-02 | 2.87E-02 | 3.68E-02 | 4.74E-02 | 5.40E-02 | 0.00E+00                         | 5.46E-03          | 1.65E-02         | 6.70E-03          | 0.00E+00                |
| Mississippi | Wayne County         | 28153 | R                    | 1.45E-02                                                                | 1.46E-02 | 1.50E-02 | 1.55E-02 | 3.06E-02 | 2.91E-02 | 5.31E-02 | 6.10E-02 | 2.82E-07                         | 2.38E-02          | 6.31E-03         | 4.94E-04          | 0.00E+00                |
| Mississippi | Webster County       | 28155 | R                    | 9.40E-03                                                                | 9.77E-03 | 1.09E-02 | 1.28E-02 | 1.92E-02 | 3.19E-02 | 4.34E-02 | 4.73E-02 | 0.00E+00                         | 1.33E-02          | 5.45E-03         | 4.67E-04          | 0.00E+00                |
| Mississippi | Wilkinson County     | 28157 | R                    | 8.61E-03                                                                | 8.72E-03 | 9.05E-03 | 9.60E-03 | 9.46E-03 | 1.02E-02 | 1.05E-02 | 1.06E-02 | 4.67E-05                         | 6.55E-03          | 2.49E-03         | 3.71E-04          | 0.00E+00                |
| Mississippi | Winston County       | 28159 | R                    | 1.13E-02                                                                | 1.14E-02 | 1.16E-02 | 1.40E-02 | 2.69E-02 | 4.32E-02 | 4.67E-02 | 4.79E-02 | 0.00E+00                         | 1.92E-02          | 7.11E-03         | 5.74E-04          | 0.00E+00                |
| Mississippi | Yalobusha County     | 28161 | R                    | 9.00E-03                                                                | 9.02E-03 | 9.08E-03 | 9.18E-03 | 1.17E-02 | 1.27E-02 | 1.48E-02 | 1.55E-02 | 1.80E-07                         | 7.60E-03          | 3.64E-03         | 4.60E-04          | 0.00E+00                |
| Mississippi | Yazoo County         | 28163 | R                    | 5.67E-03                                                                | 5.79E-03 | 6.77E-03 | 3.30E-02 | 3.46E-02 | 5.81E-02 | 5.91E-02 | 5.94E-02 | 0.00E+00                         | 2.28E-02          | 1.11E-02         | 7.58E-04          | 0.00E+00                |
| Missouri    | Statewide            | 29000 | -                    | 3.10E-03                                                                | 4.53E-03 | 1.04E-02 | 4.01E-02 | 5.64E-02 | 7.92E-02 | 1.27E-01 | 1.80E-01 | 5.23E-06                         | 2.32E-03          | 4.20E-02         | 1.21E-02          | 0.00E+00                |
| Missouri    | State Urban Counties | 29000 | U                    | 7.01E-03                                                                | 1.17E-02 | 2.94E-02 | 6.20E-02 | 7.01E-02 | 9.70E-02 | 1.56E-01 | 1.89E-01 | 1.57E-06                         | 1.60E-03          | 5.30E-02         | 1.56E-02          | 0.00E+00                |
| Missouri    | State Rural Counties | 29000 | R                    | 1.99E-03                                                                | 2.52E-03 | 4.33E-03 | 7.30E-03 | 1.20E-02 | 1.16E-02 | 2.40E-02 | 3.25E-02 | 1.71E-05                         | 4.64E-03          | 6.33E-03         | 9.69E-04          | 0.00E+00                |
| Missouri    | Adair County         | 29001 | U                    | 2.88E-03                                                                | 3.20E-03 | 1.35E-02 | 1.89E-02 | 1.70E-02 | 2.87E-02 | 3.38E-02 | 3.60E-02 | 0.00E+00                         | 7.55E-03          | 6.95E-03         | 2.47E-03          | 0.00E+00                |
| Missouri    | Andrew County        | 29003 | R                    | 3.27E-03                                                                | 3.43E-03 | 3.93E-03 | 6.69E-03 | 7.43E-03 | 9.20E-03 | 9.24E-03 | 9.25E-03 | 1.09E-04                         | 5.64E-04          | 5.70E-03         | 1.05E-03          | 0.00E+00                |
| Missouri    | Atchison County      | 29005 | R                    | 3.60E-03                                                                | 3.61E-03 | 3.64E-03 | 3.70E-03 | 3.72E-03 | 3.75E-03 | 3.78E-03 | 3.79E-03 | 1.07E-04                         | 5.73E-04          | 2.66E-03         | 3.72E-04          | 0.00E+00                |
| Missouri    | Audrain County       | 29007 | U                    | 4.77E-03                                                                | 5.08E-03 | 7.72E-03 | 2.51E-02 | 1.74E-02 | 2.59E-02 | 2.74E-02 | 2.84E-02 | 3.53E-08                         | 4.69E-03          | 9.15E-03         | 3.54E-03          | 0.00E+00                |
| Missouri    | Barry County         | 29009 | R                    | 5.82E-03                                                                | 5.85E-03 | 6.49E-03 | 9.56E-03 | 9.89E-03 | 1.36E-02 | 1.48E-02 | 1.49E-02 | 0.00E+00                         | 3.43E-03          | 5.81E-03         | 6.51E-04          | 0.00E+00                |
| Missouri    | Barton County        | 29011 | R                    | 2.49E-03                                                                | 2.49E-03 | 2.50E-03 | 2.51E-03 | 5.44E-03 | 5.95E-03 | 8.02E-03 | 8.71E-03 | 0.00E+00                         | 1.57E-03          | 3.43E-03         | 4.38E-04          | 0.00E+00                |
| Missouri    | Bates County         | 29013 | R                    | 2.09E-03                                                                | 2.13E-03 | 2.24E-03 | 2.51E-03 | 4.95E-03 | 4.92E-03 | 8.88E-03 | 1.02E-02 | 0.00E+00                         | 1.07E-03          | 3.47E-03         | 4.15E-04          | 0.00E+00                |
| Missouri    | Benton County        | 29015 | R                    | 3.50E-03                                                                | 3.63E-03 | 4.17E-03 | 5.62E-03 | 5.96E-03 | 7.55E-03 | 8.43E-03 | 8.51E-03 | 0.00E+00                         | 2.83E-03          | 2.46E-03         | 6.67E-04          | 0.00E+00                |
| Missouri    | Bollinger County     | 29017 | R                    | 5.39E-03                                                                | 5.40E-03 | 5.43E-03 | 5.48E-03 | 6.71E-03 | 7.11E-03 | 8.09E-03 | 8.41E-03 | 0.00E+00                         | 3.44E-03          | 2.60E-03         | 6.71E-04          | 0.00E+00                |
| Missouri    | Boone County         | 29019 | U                    | 1.18E-02                                                                | 1.40E-02 | 1.62E-02 | 3.36E-02 | 3.85E-02 | 6.22E-02 | 6.62E-02 | 7.00E-02 | 2.40E-11                         | 2.19E-03          | 3.01E-02         | 6.21E-03          | 0.00E+00                |
| Missouri    | Buchanan County      | 29021 | U                    | 8.80E-03                                                                | 9.62E-03 | 1.90E-02 | 2.65E-02 | 2.96E-02 | 3.80E-02 | 4.47E-02 | 4.81E-02 | 7.35E-05                         | 1.27E-03          | 2.27E-02         | 5.58E-03          | 0.00E+00                |
| Missouri    | Butler County        | 29023 | R                    | 6.84E-03                                                                | 7.31E-03 | 1.03E-02 | 2.43E-02 | 2.29E-02 | 3.49E-02 | 3.97E-02 | 4.81E-02 | 0.00E+00                         | 8.22E-03          | 1.37E-02         | 1.02E-03          | 0.00E+00                |
| Missouri    | Caldwell County      | 29025 | R                    | 2.58E-03                                                                | 2.59E-03 | 2.63E-03 | 2.69E-03 | 2.72E-03 | 2.75E-03 | 2.79E-03 | 2.80E-03 | 0.00E+00                         | 2.89E-04          | 2.08E-03         | 3.50E-04          | 0.00E+00                |
| Missouri    | Callaway County      | 29027 | R                    | 7.38E-03                                                                | 8.20E-03 | 9.63E-03 | 1.15E-02 | 2.21E-02 | 2.46E-02 | 4.31E-02 | 4.49E-02 | 1.07E-10                         | 7.27E-03          | 1.35E-02         | 1.25E-03          | 0.00E+00                |
| Missouri    | Camden County        | 29029 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 7.28E-03 | 1.13E-02 | 9.36E-03 | 1.95E-02 | 2.15E-02 | 0.00E+00                         | 5.01E-03          | 5.05E-03         | 1.19E-03          | 0.00E+00                |
| Missouri    | Cape Girardeau Count | 29031 | U                    | 5.53E-03                                                                | 5.91E-03 | 1.23E-02 | 2.37E-02 | 2.38E-02 | 3.37E-02 | 3.81E-02 | 4.22E-02 | 0.00E+00                         | 3.25E-03          | 1.31E-02         | 7.40E-03          | 0.00E+00                |
| Missouri    | Carroll County       | 29033 | R                    | 1.70E-03                                                                | 1.75E-03 | 1.92E-03 | 2.19E-03 | 3.55E-03 | 3.87E-03 | 4.88E-03 | 5.22E-03 | 6.21E-08                         | 1.00E-03          | 2.15E-03         | 3.94E-04          | 0.00E+00                |
| Missouri    | Carter County        | 29035 | R                    | 6.43E-03                                                                | 6.47E-03 | 6.61E-03 | 6.85E-03 | 6.90E-03 | 7.08E-03 | 7.22E-03 | 7.27E-03 | 0.00E+00                         | 5.10E-03          | 1.65E-03         | 1.56E-04          | 0.00E+00                |
| Missouri    | Cass County          | 29037 | U                    | 1.03E-02                                                                | 1.06E-02 | 1.19E-02 | 2.21E-02 | 3.02E-02 | 3.17E-02 | 5.04E-02 | 5.80E-02 | 0.00E+00                         | 9.17E-04          | 2.39E-02         | 5.42E-03          | 0.00E+00                |
| Missouri    | Cedar County         | 29039 | R                    | 7.25E-03                                                                | 7.26E-03 | 7.28E-03 | 7.31E-03 | 7.66E-03 | 7.74E-03 | 7.99E-03 | 8.08E-03 | 0.00E+00                         | 3.30E-03          | 3.84E-03         | 5.26E-04          | 0.00E+00                |
| Missouri    | Chariton County      | 29041 | R                    | 2.00E-03                                                                | 2.02E-03 | 2.07E-03 | 2.16E-03 | 2.14E-03 | 2.21E-03 | 2.24E-03 | 2.25E-03 | 0.00E+00                         | 6.04E-04          | 1.28E-03         | 2.56E-04          | 0.00E+00                |
| Missouri    | Christian County     | 29043 | U                    | 8.50E-03                                                                | 8.79E-03 | 9.66E-03 | 1.03E-02 | 1.41E-02 | 1.66E-02 | 1.78E-02 | 1.81E-02 | 0.00E+00                         | 2.20E-03          | 9.84E-03         | 2.04E-03          | 0.00E+00                |

| State    | County             | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|--------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                    |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                    |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Missouri | Clark County       | 29045 | R                    | 3.24E-03                                                                | 3.34E-03 | 3.65E-03 | 4.16E-03 | 5.60E-03 | 6.43E-03 | 7.80E-03 | 8.25E-03 | 2.73E-07                         | 2.29E-03          | 2.84E-03         | 4.72E-04          | 0.00E+00                |
| Missouri | Clay County        | 29047 | U                    | 2.15E-02                                                                | 2.82E-02 | 3.87E-02 | 5.12E-02 | 4.98E-02 | 5.99E-02 | 6.54E-02 | 6.85E-02 | 9.04E-09                         | 8.47E-04          | 4.02E-02         | 8.77E-03          | 0.00E+00                |
| Missouri | Clinton County     | 29049 | U                    | 4.76E-03                                                                | 5.13E-03 | 6.26E-03 | 7.29E-03 | 7.89E-03 | 9.03E-03 | 1.14E-02 | 1.22E-02 | 1.35E-06                         | 4.50E-04          | 5.92E-03         | 1.52E-03          | 0.00E+00                |
| Missouri | Cole County        | 29051 | U                    | 1.12E-02                                                                | 1.21E-02 | 1.43E-02 | 2.30E-02 | 2.46E-02 | 3.26E-02 | 4.44E-02 | 5.28E-02 | 2.43E-12                         | 2.06E-03          | 1.71E-02         | 5.47E-03          | 0.00E+00                |
| Missouri | Cooper County      | 29053 | R                    | 3.69E-03                                                                | 3.75E-03 | 3.95E-03 | 1.71E-02 | 1.11E-02 | 1.73E-02 | 1.76E-02 | 1.76E-02 | 0.00E+00                         | 2.65E-03          | 7.53E-03         | 9.18E-04          | 0.00E+00                |
| Missouri | Crawford County    | 29055 | R                    | 1.10E-02                                                                | 1.12E-02 | 1.18E-02 | 1.36E-02 | 1.29E-02 | 1.51E-02 | 1.52E-02 | 1.52E-02 | 0.00E+00                         | 6.45E-03          | 4.69E-03         | 1.76E-03          | 0.00E+00                |
| Missouri | Dade County        | 29057 | R                    | 2.60E-03                                                                | 2.66E-03 | 2.84E-03 | 3.15E-03 | 3.22E-03 | 3.45E-03 | 3.64E-03 | 3.70E-03 | 0.00E+00                         | 6.57E-04          | 2.16E-03         | 4.03E-04          | 0.00E+00                |
| Missouri | Dallas County      | 29059 | R                    | 5.79E-03                                                                | 5.87E-03 | 6.08E-03 | 6.44E-03 | 7.38E-03 | 8.07E-03 | 9.04E-03 | 9.36E-03 | 0.00E+00                         | 2.73E-03          | 4.13E-03         | 5.15E-04          | 0.00E+00                |
| Missouri | Davies County      | 29061 | R                    | 4.14E-03                                                                | 4.14E-03 | 4.14E-03 | 4.15E-03 | 4.15E-03 | 4.15E-03 | 4.16E-03 | 4.16E-03 | 2.05E-08                         | 9.54E-04          | 2.79E-03         | 4.10E-04          | 0.00E+00                |
| Missouri | DeKalb County      | 29063 | R                    | 3.00E-03                                                                | 3.02E-03 | 3.08E-03 | 3.18E-03 | 3.14E-03 | 3.29E-03 | 3.35E-03 | 3.37E-03 | 2.57E-06                         | 2.43E-04          | 2.51E-03         | 3.86E-04          | 0.00E+00                |
| Missouri | Dent County        | 29065 | R                    | 1.50E-02                                                                | 1.59E-02 | 1.86E-02 | 4.44E-02 | 4.64E-02 | 8.16E-02 | 1.05E-01 | 1.12E-01 | 0.00E+00                         | 3.63E-02          | 9.27E-03         | 8.02E-04          | 0.00E+00                |
| Missouri | Douglas County     | 29067 | R                    | 7.00E-03                                                                | 8.93E-03 | 1.47E-02 | 2.15E-02 | 1.83E-02 | 2.56E-02 | 2.67E-02 | 2.70E-02 | 0.00E+00                         | 1.43E-02          | 3.58E-03         | 3.49E-04          | 0.00E+00                |
| Missouri | Dunklin County     | 29069 | R                    | 4.21E-03                                                                | 4.32E-03 | 4.91E-03 | 8.70E-03 | 1.08E-02 | 1.59E-02 | 1.91E-02 | 2.18E-02 | 8.87E-07                         | 5.27E-04          | 9.35E-03         | 9.53E-04          | 0.00E+00                |
| Missouri | Franklin County    | 29071 | U                    | 8.91E-03                                                                | 9.36E-03 | 1.16E-02 | 1.55E-02 | 1.62E-02 | 2.02E-02 | 2.14E-02 | 2.25E-02 | 6.26E-11                         | 3.54E-03          | 9.47E-03         | 3.15E-03          | 0.00E+00                |
| Missouri | Gasconade County   | 29073 | R                    | 7.02E-03                                                                | 7.11E-03 | 7.39E-03 | 8.76E-03 | 1.72E-02 | 2.07E-02 | 3.16E-02 | 3.52E-02 | 2.32E-10                         | 9.21E-03          | 6.92E-03         | 1.09E-03          | 0.00E+00                |
| Missouri | Gentry County      | 29075 | R                    | 2.04E-03                                                                | 2.04E-03 | 2.06E-03 | 2.08E-03 | 2.08E-03 | 2.10E-03 | 2.12E-03 | 2.12E-03 | 1.33E-06                         | 4.41E-04          | 1.45E-03         | 1.89E-04          | 0.00E+00                |
| Missouri | Greene County      | 29077 | U                    | 1.80E-02                                                                | 2.19E-02 | 3.65E-02 | 4.62E-02 | 4.31E-02 | 5.41E-02 | 6.56E-02 | 7.30E-02 | 0.00E+00                         | 8.02E-04          | 3.47E-02         | 7.55E-03          | 0.00E+00                |
| Missouri | Grundy County      | 29079 | U                    | 2.02E-03                                                                | 2.26E-03 | 2.97E-03 | 8.73E-03 | 9.58E-03 | 1.41E-02 | 1.42E-02 | 1.42E-02 | 9.78E-08                         | 1.98E-03          | 5.54E-03         | 2.06E-03          | 0.00E+00                |
| Missouri | Harrison County    | 29081 | R                    | 1.47E-03                                                                | 1.48E-03 | 1.50E-03 | 1.53E-03 | 4.91E-03 | 6.21E-03 | 9.01E-03 | 9.94E-03 | 2.94E-07                         | 2.60E-03          | 2.06E-03         | 2.46E-04          | 0.00E+00                |
| Missouri | Henry County       | 29083 | U                    | 3.77E-03                                                                | 3.91E-03 | 4.28E-03 | 5.27E-03 | 1.37E-02 | 1.97E-02 | 2.53E-02 | 2.58E-02 | 0.00E+00                         | 5.59E-03          | 5.70E-03         | 2.41E-03          | 0.00E+00                |
| Missouri | Hickory County     | 29085 | R                    | 4.10E-03                                                                | 4.19E-03 | 4.45E-03 | 4.97E-03 | 6.08E-03 | 6.48E-03 | 8.54E-03 | 9.22E-03 | 0.00E+00                         | 2.75E-03          | 2.91E-03         | 4.28E-04          | 0.00E+00                |
| Missouri | Holt County        | 29087 | R                    | 5.53E-03                                                                | 5.67E-03 | 6.07E-03 | 6.75E-03 | 6.41E-03 | 6.92E-03 | 7.02E-03 | 7.05E-03 | 2.83E-03                         | 6.55E-04          | 2.49E-03         | 4.28E-04          | 0.00E+00                |
| Missouri | Howard County      | 29089 | R                    | 3.16E-03                                                                | 3.18E-03 | 3.24E-03 | 3.33E-03 | 4.99E-03 | 5.55E-03 | 6.89E-03 | 7.33E-03 | 0.00E+00                         | 1.51E-03          | 2.97E-03         | 5.17E-04          | 0.00E+00                |
| Missouri | Howell County      | 29091 | R                    | 5.72E-03                                                                | 5.87E-03 | 6.09E-03 | 6.92E-03 | 1.76E-02 | 2.09E-02 | 3.88E-02 | 4.18E-02 | 0.00E+00                         | 8.29E-03          | 8.62E-03         | 6.60E-04          | 0.00E+00                |
| Missouri | Iron County        | 29093 | R                    | 6.95E-03                                                                | 7.68E-03 | 9.84E-03 | 1.53E-02 | 1.46E-02 | 1.95E-02 | 1.95E-02 | 1.95E-02 | 0.00E+00                         | 9.41E-03          | 4.75E-03         | 4.41E-04          | 0.00E+00                |
| Missouri | Jackson County     | 29095 | U                    | 3.68E-02                                                                | 5.29E-02 | 6.49E-02 | 8.28E-02 | 8.19E-02 | 1.10E-01 | 1.21E-01 | 1.29E-01 | 1.60E-08                         | 4.89E-04          | 6.85E-02         | 1.29E-02          | 0.00E+00                |
| Missouri | Jasper County      | 29097 | U                    | 8.79E-03                                                                | 1.05E-02 | 1.77E-02 | 3.40E-02 | 3.10E-02 | 4.41E-02 | 4.92E-02 | 5.09E-02 | 0.00E+00                         | 2.74E-03          | 2.39E-02         | 4.28E-03          | 0.00E+00                |
| Missouri | Jefferson County   | 29099 | U                    | 2.21E-02                                                                | 2.24E-02 | 2.81E-02 | 4.26E-02 | 4.15E-02 | 5.47E-02 | 6.05E-02 | 6.18E-02 | 0.00E+00                         | 4.59E-03          | 2.85E-02         | 8.38E-03          | 0.00E+00                |
| Missouri | Johnson County     | 29101 | R                    | 4.89E-03                                                                | 5.40E-03 | 5.86E-03 | 1.35E-02 | 1.56E-02 | 2.03E-02 | 2.78E-02 | 2.84E-02 | 0.00E+00                         | 3.27E-03          | 1.15E-02         | 8.64E-04          | 0.00E+00                |
| Missouri | Knox County        | 29103 | R                    | 2.04E-03                                                                | 2.12E-03 | 2.39E-03 | 2.84E-03 | 2.89E-03 | 3.29E-03 | 3.56E-03 | 3.65E-03 | 0.00E+00                         | 1.09E-03          | 1.55E-03         | 2.52E-04          | 0.00E+00                |
| Missouri | Laclede County     | 29105 | R                    | 6.99E-03                                                                | 7.31E-03 | 1.37E-02 | 3.18E-02 | 2.55E-02 | 4.17E-02 | 4.50E-02 | 4.51E-02 | 0.00E+00                         | 1.30E-02          | 1.12E-02         | 1.20E-03          | 0.00E+00                |
| Missouri | Lafayette County   | 29107 | U                    | 3.16E-03                                                                | 3.22E-03 | 3.37E-03 | 4.09E-03 | 5.90E-03 | 7.81E-03 | 8.89E-03 | 8.91E-03 | 0.00E+00                         | 2.98E-04          | 4.68E-03         | 9.18E-04          | 0.00E+00                |
| Missouri | Lawrence County    | 29109 | R                    | 4.17E-03                                                                | 4.23E-03 | 4.62E-03 | 6.35E-03 | 9.43E-03 | 9.37E-03 | 1.47E-02 | 1.71E-02 | 0.00E+00                         | 2.01E-03          | 6.70E-03         | 7.19E-04          | 0.00E+00                |
| Missouri | Lewis County       | 29111 | R                    | 2.75E-03                                                                | 2.77E-03 | 2.81E-03 | 3.32E-03 | 3.92E-03 | 4.25E-03 | 5.04E-03 | 5.30E-03 | 3.72E-11                         | 1.30E-03          | 2.09E-03         | 5.31E-04          | 0.00E+00                |
| Missouri | Lincoln County     | 29113 | U                    | 7.85E-03                                                                | 8.12E-03 | 8.92E-03 | 1.10E-02 | 1.28E-02 | 1.36E-02 | 1.55E-02 | 1.61E-02 | 3.77E-08                         | 2.03E-03          | 8.24E-03         | 2.48E-03          | 0.00E+00                |
| Missouri | Linn County        | 29115 | U                    | 1.49E-03                                                                | 1.57E-03 | 1.80E-03 | 3.37E-03 | 4.48E-03 | 4.40E-03 | 7.58E-03 | 8.65E-03 | 0.00E+00                         | 1.20E-03          | 2.54E-03         | 7.45E-04          | 0.00E+00                |
| Missouri | Livingston County  | 29117 | U                    | 2.34E-03                                                                | 2.65E-03 | 3.58E-03 | 2.99E-02 | 2.17E-02 | 3.08E-02 | 3.86E-02 | 4.11E-02 | 9.94E-09                         | 9.24E-03          | 8.22E-03         | 4.25E-03          | 0.00E+00                |
| Missouri | McDonald County    | 29119 | R                    | 7.36E-03                                                                | 7.41E-03 | 7.54E-03 | 8.23E-03 | 8.47E-03 | 9.12E-03 | 9.65E-03 | 9.83E-03 | 0.00E+00                         | 3.12E-03          | 4.76E-03         | 6.00E-04          | 0.00E+00                |
| Missouri | Macon County       | 29121 | R                    | 2.48E-03                                                                | 2.49E-03 | 2.54E-03 | 1.08E-02 | 8.07E-03 | 1.09E-02 | 1.09E-02 | 1.09E-02 | 0.00E+00                         | 3.28E-03          | 4.25E-03         | 5.41E-04          | 0.00E+00                |
| Missouri | Madison County     | 29123 | R                    | 8.78E-03                                                                | 9.30E-03 | 1.09E-02 | 1.35E-02 | 1.92E-02 | 2.12E-02 | 2.59E-02 | 2.74E-02 | 0.00E+00                         | 1.31E-02          | 5.39E-03         | 6.50E-04          | 0.00E+00                |
| Missouri | Maries County      | 29125 | R                    | 6.23E-03                                                                | 6.33E-03 | 6.61E-03 | 7.08E-03 | 7.26E-03 | 7.88E-03 | 8.37E-03 | 8.53E-03 | 0.00E+00                         | 3.62E-03          | 3.11E-03         | 5.28E-04          | 0.00E+00                |
| Missouri | Marion County      | 29127 | U                    | 5.83E-03                                                                | 8.74E-03 | 1.13E-02 | 1.25E-02 | 1.46E-02 | 1.98E-02 | 2.77E-02 | 2.78E-02 | 4.79E-10                         | 2.94E-03          | 7.84E-03         | 3.82E-03          | 0.00E+00                |
| Missouri | Mercer County      | 29129 | R                    | 2.23E-03                                                                | 2.23E-03 | 2.24E-03 | 2.25E-03 | 2.25E-03 | 2.25E-03 | 2.26E-03 | 2.26E-03 | 0.00E+00                         | 7.48E-04          | 1.27E-03         | 2.25E-04          | 0.00E+00                |
| Missouri | Miller County      | 29131 | R                    | 5.48E-03                                                                | 5.63E-03 | 6.06E-03 | 7.39E-03 | 9.58E-03 | 8.28E-03 | 1.50E-02 | 1.72E-02 | 1.77E-11                         | 3.59E-03          | 5.24E-03         | 7.48E-04          | 0.00E+00                |
| Missouri | Mississippi County | 29133 | U                    | 6.28E-03                                                                | 7.03E-03 | 9.28E-03 | 1.06E-02 | 1.04E-02 | 1.11E-02 | 1.18E-02 | 1.20E-02 | 0.00E+00                         | 5.31E-04          | 6.87E-03         | 2.95E-03          | 0.00E+00                |
| Missouri | Moniteau County    | 29135 | R                    | 3.77E-03                                                                | 3.78E-03 | 3.82E-03 | 4.82E-03 | 8.32E-03 | 8.78E-03 | 1.41E-02 | 1.59E-02 | 0.00E+00                         | 2.62E-03          | 4.95E-03         | 7.44E-04          | 0.00E+00                |
| Missouri | Monroe County      | 29137 | R                    | 2.45E-03                                                                | 2.48E-03 | 2.57E-03 | 2.72E-03 | 2.71E-03 | 2.81E-03 | 2.87E-03 | 2.89E-03 | 1.26E-10                         | 8.81E-04          | 1.44E-03         | 3.83E-04          | 0.00E+00                |
| Missouri | Montgomery County  | 29139 | R                    | 4.48E-03                                                                | 4.66E-03 | 5.19E-03 | 5.84E-03 | 5.98E-03 | 6.56E-03 | 7.20E-03 | 7.42E-03 | 7.43E-08                         | 2.06E-03          | 3.14E-03         | 7.89E-04          | 0.00E+00                |
| Missouri | Morgan County      | 29141 | R                    | 5.32E-03                                                                | 5.87E-03 | 7.23E-03 | 9.23E-03 | 9.62E-03 | 1.16E-02 | 1.57E-02 | 1.81E-02 | 0.00E+00                         | 4.38E-03          | 4.56E-03         | 6.81E-04          | 0.00E+00                |
| Missouri | New Madrid County  | 29143 | R                    | 3.01E-03                                                                | 3.17E-03 | 3.61E-03 | 4.08E-03 | 5.60E-03 | 7.70E-03 | 9.10E-03 | 9.21E-03 | 0.00E+00                         | 6.00E-04          | 4.36E-03         | 6.48E-04          | 0.00E+00                |
| Missouri | Newton County      | 29145 | R                    | 6.32E-03                                                                | 7.27E-03 | 8.26E-03 | 1.06E-02 | 1.87E-02 | 3.01E-02 | 4.46E-02 | 4.50E-02 | 0.00E+00                         | 4.27E-03          | 1.33E-02         | 1.12E-03          | 0.00E+00                |
| Missouri | Nodaway County     | 29147 | R                    | 1.96E-03                                                                | 1.99E-03 | 2.06E-03 | 2.20E-03 | 1.14E-02 | 2.01E-02 | 2.01E-02 | 2.01E-02 | 4.58E-05                         | 2.45E-03          | 8.47E-03         | 4.71E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Missouri | Oregon County        | 29149 | R                    | 5.61E-03                                                                | 5.71E-03 | 6.03E-03 | 6.55E-03 | 6.84E-03 | 7.86E-03 | 8.64E-03 | 8.90E-03 | 0.00E+00                         | 4.64E-03          | 2.04E-03         | 1.56E-04          | 0.00E+00                |
| Missouri | Osage County         | 29151 | R                    | 1.71E-03                                                                | 3.42E-03 | 6.92E-03 | 7.33E-03 | 8.46E-03 | 1.04E-02 | 1.41E-02 | 1.55E-02 | 0.00E+00                         | 3.20E-03          | 4.36E-03         | 9.01E-04          | 0.00E+00                |
| Missouri | Ozark County         | 29153 | R                    | 5.59E-03                                                                | 5.61E-03 | 5.66E-03 | 5.75E-03 | 5.74E-03 | 5.84E-03 | 5.89E-03 | 5.91E-03 | 0.00E+00                         | 3.22E-03          | 1.89E-03         | 6.34E-04          | 0.00E+00                |
| Missouri | Pemiscot County      | 29155 | R                    | 4.80E-03                                                                | 5.07E-03 | 6.22E-03 | 1.17E-02 | 1.16E-02 | 1.59E-02 | 1.62E-02 | 1.62E-02 | 1.02E-06                         | 1.34E-03          | 9.09E-03         | 1.14E-03          | 0.00E+00                |
| Missouri | Perry County         | 29157 | R                    | 5.35E-03                                                                | 6.28E-03 | 9.09E-03 | 9.23E-03 | 1.53E-02 | 2.60E-02 | 2.60E-02 | 2.60E-02 | 0.00E+00                         | 5.25E-03          | 8.99E-03         | 1.05E-03          | 0.00E+00                |
| Missouri | Pettis County        | 29159 | U                    | 4.54E-03                                                                | 5.16E-03 | 6.17E-03 | 1.86E-02 | 1.74E-02 | 2.64E-02 | 3.38E-02 | 3.54E-02 | 0.00E+00                         | 2.82E-03          | 1.09E-02         | 3.67E-03          | 0.00E+00                |
| Missouri | Phelps County        | 29161 | U                    | 1.08E-02                                                                | 1.30E-02 | 1.46E-02 | 2.89E-02 | 3.16E-02 | 4.22E-02 | 5.34E-02 | 6.14E-02 | 4.89E-12                         | 1.22E-02          | 1.59E-02         | 3.49E-03          | 0.00E+00                |
| Missouri | Pike County          | 29163 | R                    | 2.74E-03                                                                | 2.90E-03 | 3.38E-03 | 3.79E-03 | 1.14E-02 | 1.85E-02 | 2.20E-02 | 2.31E-02 | 5.28E-07                         | 6.25E-03          | 4.45E-03         | 6.64E-04          | 0.00E+00                |
| Missouri | Platte County        | 29165 | U                    | 1.47E-02                                                                | 1.73E-02 | 3.49E-02 | 4.41E-02 | 4.44E-02 | 5.58E-02 | 6.58E-02 | 7.26E-02 | 1.50E-07                         | 2.15E-03          | 2.94E-02         | 1.28E-02          | 0.00E+00                |
| Missouri | Polk County          | 29167 | R                    | 5.16E-03                                                                | 5.18E-03 | 5.24E-03 | 5.49E-03 | 6.43E-03 | 6.55E-03 | 8.09E-03 | 8.61E-03 | 0.00E+00                         | 1.46E-03          | 4.08E-03         | 8.91E-04          | 0.00E+00                |
| Missouri | Pulaski County       | 29169 | R                    | 6.61E-03                                                                | 6.77E-03 | 7.25E-03 | 1.74E-02 | 1.45E-02 | 1.76E-02 | 1.81E-02 | 1.82E-02 | 0.00E+00                         | 6.12E-03          | 7.71E-03         | 6.89E-04          | 0.00E+00                |
| Missouri | Putnam County        | 29171 | R                    | 6.01E-03                                                                | 6.02E-03 | 6.03E-03 | 6.04E-03 | 6.04E-03 | 6.06E-03 | 6.07E-03 | 6.07E-03 | 0.00E+00                         | 3.77E-03          | 2.07E-03         | 2.03E-04          | 0.00E+00                |
| Missouri | Ralls County         | 29173 | R                    | 2.92E-03                                                                | 3.03E-03 | 3.38E-03 | 3.95E-03 | 4.62E-03 | 5.49E-03 | 6.41E-03 | 6.72E-03 | 3.54E-08                         | 1.38E-03          | 2.51E-03         | 7.28E-04          | 0.00E+00                |
| Missouri | Randolph County      | 29175 | U                    | 8.39E-03                                                                | 8.55E-03 | 9.58E-03 | 1.95E-02 | 2.38E-02 | 3.90E-02 | 4.40E-02 | 4.46E-02 | 8.46E-11                         | 5.62E-03          | 1.43E-02         | 3.93E-03          | 0.00E+00                |
| Missouri | Ray County           | 29177 | U                    | 4.18E-03                                                                | 4.81E-03 | 6.69E-03 | 8.70E-03 | 8.41E-03 | 9.91E-03 | 1.04E-02 | 1.05E-02 | 0.00E+00                         | 6.49E-04          | 6.51E-03         | 1.25E-03          | 0.00E+00                |
| Missouri | Reynolds County      | 29179 | R                    | 6.50E-03                                                                | 6.53E-03 | 6.62E-03 | 6.78E-03 | 6.76E-03 | 6.93E-03 | 7.02E-03 | 7.05E-03 | 0.00E+00                         | 4.87E-03          | 1.19E-03         | 7.01E-04          | 0.00E+00                |
| Missouri | Ripley County        | 29181 | R                    | 5.74E-03                                                                | 5.94E-03 | 6.54E-03 | 7.13E-03 | 1.13E-02 | 1.10E-02 | 1.74E-02 | 1.96E-02 | 0.00E+00                         | 6.74E-03          | 4.27E-03         | 3.16E-04          | 0.00E+00                |
| Missouri | St. Charles County   | 29183 | U                    | 2.62E-02                                                                | 2.88E-02 | 3.86E-02 | 5.45E-02 | 5.46E-02 | 6.13E-02 | 7.05E-02 | 7.18E-02 | 7.33E-11                         | 1.12E-03          | 3.58E-02         | 1.77E-02          | 0.00E+00                |
| Missouri | St. Clair County     | 29185 | R                    | 3.83E-03                                                                | 3.87E-03 | 4.00E-03 | 4.21E-03 | 5.03E-03 | 5.94E-03 | 6.98E-03 | 7.33E-03 | 0.00E+00                         | 2.42E-03          | 2.16E-03         | 4.44E-04          | 0.00E+00                |
| Missouri | Ste. Genevieve Count | 29186 | R                    | 7.48E-03                                                                | 7.51E-03 | 7.59E-03 | 9.58E-03 | 1.04E-02 | 1.18E-02 | 1.24E-02 | 1.26E-02 | 0.00E+00                         | 3.41E-03          | 6.06E-03         | 9.48E-04          | 0.00E+00                |
| Missouri | St. Francois County  | 29187 | U                    | 1.42E-02                                                                | 1.49E-02 | 3.80E-02 | 4.12E-02 | 4.18E-02 | 4.15E-02 | 5.98E-02 | 6.22E-02 | 0.00E+00                         | 1.13E-02          | 2.58E-02         | 4.74E-03          | 0.00E+00                |
| Missouri | St. Louis County     | 29189 | U                    | 5.49E-02                                                                | 6.35E-02 | 7.17E-02 | 8.35E-02 | 8.78E-02 | 1.01E-01 | 1.19E-01 | 1.46E-01 | 4.01E-13                         | 8.33E-04          | 5.80E-02         | 2.90E-02          | 0.00E+00                |
| Missouri | Saline County        | 29195 | U                    | 2.60E-03                                                                | 2.60E-03 | 3.22E-03 | 1.08E-02 | 1.65E-02 | 2.64E-02 | 3.46E-02 | 3.56E-02 | 0.00E+00                         | 3.28E-03          | 8.90E-03         | 4.33E-03          | 0.00E+00                |
| Missouri | Schuyler County      | 29197 | R                    | 1.55E-03                                                                | 1.56E-03 | 1.62E-03 | 1.71E-03 | 1.72E-03 | 1.79E-03 | 1.85E-03 | 1.86E-03 | 0.00E+00                         | 5.61E-04          | 9.67E-04         | 1.93E-04          | 0.00E+00                |
| Missouri | Scotland County      | 29199 | R                    | 2.33E-03                                                                | 2.75E-03 | 4.03E-03 | 6.16E-03 | 5.89E-03 | 8.29E-03 | 9.57E-03 | 9.99E-03 | 0.00E+00                         | 3.24E-03          | 2.42E-03         | 2.28E-04          | 0.00E+00                |
| Missouri | Scott County         | 29201 | U                    | 5.97E-03                                                                | 6.01E-03 | 6.83E-03 | 1.55E-02 | 1.76E-02 | 2.65E-02 | 3.12E-02 | 3.58E-02 | 0.00E+00                         | 6.73E-04          | 1.24E-02         | 4.52E-03          | 0.00E+00                |
| Missouri | Shannon County       | 29203 | R                    | 5.86E-03                                                                | 6.14E-03 | 7.01E-03 | 8.44E-03 | 8.80E-03 | 9.88E-03 | 1.07E-02 | 1.10E-02 | 0.00E+00                         | 7.27E-03          | 1.39E-03         | 1.40E-04          | 0.00E+00                |
| Missouri | Shelby County        | 29205 | R                    | 2.40E-03                                                                | 2.41E-03 | 2.42E-03 | 2.44E-03 | 2.74E-03 | 2.78E-03 | 2.99E-03 | 3.05E-03 | 3.98E-11                         | 8.79E-04          | 1.61E-03         | 2.53E-04          | 0.00E+00                |
| Missouri | Stoddard County      | 29207 | R                    | 3.62E-03                                                                | 3.68E-03 | 4.19E-03 | 6.25E-03 | 1.28E-02 | 1.41E-02 | 3.10E-02 | 3.11E-02 | 0.00E+00                         | 2.26E-03          | 9.77E-03         | 7.62E-04          | 0.00E+00                |
| Missouri | Stone County         | 29209 | R                    | 8.20E-03                                                                | 8.36E-03 | 8.84E-03 | 9.26E-03 | 9.40E-03 | 9.78E-03 | 1.09E-02 | 1.13E-02 | 0.00E+00                         | 2.59E-03          | 4.84E-03         | 1.97E-03          | 0.00E+00                |
| Missouri | Sullivan County      | 29211 | R                    | 1.34E-03                                                                | 1.35E-03 | 1.37E-03 | 1.42E-03 | 2.53E-03 | 2.83E-03 | 3.67E-03 | 3.95E-03 | 0.00E+00                         | 9.93E-04          | 1.38E-03         | 1.51E-04          | 0.00E+00                |
| Missouri | Taney County         | 29213 | R                    | 2.19E-02                                                                | 2.21E-02 | 2.28E-02 | 2.48E-02 | 3.09E-02 | 3.86E-02 | 3.87E-02 | 3.87E-02 | 0.00E+00                         | 9.66E-03          | 1.00E-02         | 1.12E-02          | 0.00E+00                |
| Missouri | Texas County         | 29215 | R                    | 5.06E-03                                                                | 5.12E-03 | 5.30E-03 | 5.41E-03 | 5.43E-03 | 5.56E-03 | 5.83E-03 | 5.91E-03 | 0.00E+00                         | 3.27E-03          | 1.99E-03         | 1.63E-04          | 0.00E+00                |
| Missouri | Vernon County        | 29217 | R                    | 3.42E-03                                                                | 3.56E-03 | 4.11E-03 | 5.28E-03 | 1.39E-02 | 1.93E-02 | 2.40E-02 | 2.40E-02 | 0.00E+00                         | 5.55E-03          | 7.89E-03         | 4.92E-04          | 0.00E+00                |
| Missouri | Warren County        | 29219 | U                    | 1.05E-02                                                                | 1.05E-02 | 1.07E-02 | 1.10E-02 | 1.08E-02 | 1.14E-02 | 1.16E-02 | 1.16E-02 | 1.51E-08                         | 2.34E-03          | 6.51E-03         | 1.99E-03          | 0.00E+00                |
| Missouri | Washington County    | 29221 | R                    | 9.43E-03                                                                | 9.68E-03 | 1.04E-02 | 1.67E-02 | 2.07E-02 | 1.92E-02 | 3.46E-02 | 3.97E-02 | 0.00E+00                         | 1.13E-02          | 8.04E-03         | 1.30E-03          | 0.00E+00                |
| Missouri | Wayne County         | 29223 | R                    | 7.04E-03                                                                | 7.08E-03 | 7.20E-03 | 7.38E-03 | 8.50E-03 | 8.38E-03 | 9.95E-03 | 1.05E-02 | 0.00E+00                         | 5.83E-03          | 2.45E-03         | 2.29E-04          | 0.00E+00                |
| Missouri | Webster County       | 29225 | U                    | 8.07E-03                                                                | 8.63E-03 | 1.03E-02 | 1.30E-02 | 1.24E-02 | 1.48E-02 | 1.48E-02 | 1.49E-02 | 0.00E+00                         | 3.83E-03          | 7.56E-03         | 1.03E-03          | 0.00E+00                |
| Missouri | Worth County         | 29227 | R                    | 1.63E-03                                                                | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.42E-07                         | 5.64E-04          | 9.52E-04         | 1.17E-04          | 0.00E+00                |
| Missouri | Wright County        | 29229 | R                    | 4.40E-03                                                                | 4.42E-03 | 4.49E-03 | 5.94E-03 | 5.97E-03 | 7.40E-03 | 7.49E-03 | 7.52E-03 | 0.00E+00                         | 2.82E-03          | 2.85E-03         | 2.99E-04          | 0.00E+00                |
| Missouri | St. Louis city       | 29510 | U                    | 1.10E-01                                                                | 1.21E-01 | 1.50E-01 | 1.80E-01 | 1.82E-01 | 2.01E-01 | 2.25E-01 | 2.54E-01 | 3.61E-12                         | 3.11E-04          | 1.55E-01         | 2.65E-02          | 0.00E+00                |
| Montana  | Statewide            | 30000 | -                    | 4.09E-04                                                                | 6.59E-04 | 2.45E-03 | 1.23E-02 | 4.71E-02 | 4.90E-02 | 8.85E-02 | 1.23E-01 | 3.06E-05                         | 1.70E-02          | 2.17E-02         | 8.36E-03          | 0.00E+00                |
| Montana  | State Urban Counties | 30000 | U                    | 6.88E-04                                                                | 3.09E-03 | 1.28E-02 | 4.33E-02 | 5.97E-02 | 7.56E-02 | 1.08E-01 | 1.40E-01 | 5.13E-05                         | 1.49E-02          | 3.12E-02         | 1.36E-02          | 0.00E+00                |
| Montana  | State Rural Counties | 30000 | R                    | 2.82E-04                                                                | 4.39E-04 | 9.82E-04 | 5.01E-03 | 2.87E-02 | 1.30E-02 | 4.15E-02 | 8.89E-02 | 2.79E-07                         | 2.01E-02          | 7.85E-03         | 7.44E-04          | 0.00E+00                |
| Montana  | Beaverhead County    | 30001 | R                    | 3.43E-03                                                                | 4.42E-03 | 7.39E-03 | 9.86E-03 | 2.41E-02 | 1.01E-02 | 2.75E-02 | 3.32E-02 | 0.00E+00                         | 1.80E-02          | 5.94E-03         | 2.49E-04          | 0.00E+00                |
| Montana  | Big Horn County      | 30003 | R                    | 1.10E-03                                                                | 1.16E-03 | 1.34E-03 | 1.84E-03 | 1.60E-03 | 2.29E-03 | 2.40E-03 | 2.44E-03 | 1.58E-07                         | 6.59E-04          | 7.91E-04         | 1.45E-04          | 0.00E+00                |
| Montana  | Blaine County        | 30005 | R                    | 7.35E-04                                                                | 7.53E-04 | 8.09E-04 | 9.01E-04 | 8.39E-04 | 9.32E-04 | 9.51E-04 | 9.58E-04 | 0.00E+00                         | 3.48E-04          | 4.19E-04         | 7.24E-05          | 0.00E+00                |
| Montana  | Broadwater County    | 30007 | R                    | 7.29E-03                                                                | 7.30E-03 | 7.34E-03 | 7.40E-03 | 7.34E-03 | 7.46E-03 | 7.50E-03 | 7.51E-03 | 0.00E+00                         | 4.86E-03          | 1.69E-03         | 7.86E-04          | 0.00E+00                |
| Montana  | Carbon County        | 30009 | R                    | 6.09E-03                                                                | 6.11E-03 | 6.33E-03 | 7.68E-03 | 1.40E-02 | 2.01E-02 | 2.40E-02 | 2.40E-02 | 8.63E-06                         | 7.60E-03          | 5.86E-03         | 4.86E-04          | 0.00E+00                |
| Montana  | Carter County        | 30011 | R                    | 1.67E-04                                                                | 1.72E-04 | 1.84E-04 | 2.04E-04 | 2.12E-04 | 2.25E-04 | 2.37E-04 | 2.41E-04 | 0.00E+00                         | 8.62E-05          | 1.09E-04         | 1.67E-05          | 0.00E+00                |
| Montana  | Cascade County       | 30013 | U                    | 7.21E-03                                                                | 7.78E-03 | 2.35E-02 | 3.81E-02 | 3.49E-02 | 5.04E-02 | 5.66E-02 | 6.83E-02 | 1.29E-08                         | 3.12E-03          | 2.55E-02         | 6.27E-03          | 0.00E+00                |
| Montana  | Chouteau County      | 30015 | R                    | 4.46E-04                                                                | 4.78E-04 | 5.75E-04 | 7.37E-04 | 7.26E-04 | 1.11E-03 | 1.33E-03 | 1.40E-03 | 4.81E-11                         | 2.97E-04          | 3.50E-04         | 7.90E-05          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Montana  | Custer County        | 30017 | U                    | 9.89E-04                                                                | 1.20E-03 | 1.84E-03 | 5.86E-03 | 8.61E-03 | 1.22E-02 | 1.24E-02 | 1.25E-02 | 0.00E+00                         | 1.02E-04          | 6.09E-03         | 2.42E-03          | 0.00E+00                |
| Montana  | Daniels County       | 30019 | R                    | 4.63E-04                                                                | 4.63E-04 | 4.63E-04 | 4.63E-04 | 4.63E-04 | 4.63E-04 | 4.63E-04 | 4.63E-04 | 0.00E+00                         | 3.46E-08          | 4.04E-04         | 5.91E-05          | 0.00E+00                |
| Montana  | Dawson County        | 30021 | U                    | 5.94E-04                                                                | 6.12E-04 | 6.64E-04 | 3.90E-03 | 6.00E-03 | 7.14E-03 | 7.20E-03 | 7.21E-03 | 0.00E+00                         | 1.95E-04          | 4.41E-03         | 1.39E-03          | 0.00E+00                |
| Montana  | Deer Lodge County    | 30023 | U                    | 9.33E-03                                                                | 9.66E-03 | 1.07E-02 | 3.41E-02 | 4.25E-02 | 5.73E-02 | 5.79E-02 | 5.82E-02 | 0.00E+00                         | 3.52E-02          | 6.22E-03         | 1.06E-03          | 0.00E+00                |
| Montana  | Fallon County        | 30025 | R                    | 4.56E-04                                                                | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 0.00E+00                         | 2.66E-07          | 4.18E-04         | 3.79E-05          | 0.00E+00                |
| Montana  | Fergus County        | 30027 | U                    | 1.07E-03                                                                | 1.21E-03 | 1.86E-03 | 3.05E-03 | 2.95E-02 | 8.49E-03 | 4.29E-02 | 6.53E-02 | 0.00E+00                         | 2.31E-02          | 4.22E-03         | 2.14E-03          | 0.00E+00                |
| Montana  | Flathead County      | 30029 | R                    | 1.61E-02                                                                | 2.15E-02 | 3.35E-02 | 5.20E-02 | 6.86E-02 | 1.12E-01 | 1.23E-01 | 1.27E-01 | 0.00E+00                         | 4.00E-02          | 2.66E-02         | 1.99E-03          | 0.00E+00                |
| Montana  | Gallatin County      | 30031 | U                    | 1.17E-02                                                                | 1.51E-02 | 2.26E-02 | 1.40E-01 | 1.25E-01 | 2.23E-01 | 2.55E-01 | 2.72E-01 | 0.00E+00                         | 2.90E-02          | 3.90E-02         | 5.68E-02          | 0.00E+00                |
| Montana  | Garfield County      | 30033 | R                    | 3.27E-04                                                                | 3.27E-04 | 3.27E-04 | 3.27E-04 | 3.27E-04 | 3.27E-04 | 3.27E-04 | 3.27E-04 | 0.00E+00                         | 2.57E-06          | 1.31E-04         | 1.94E-04          | 0.00E+00                |
| Montana  | Glacier County       | 30035 | R                    | 2.07E-03                                                                | 2.19E-03 | 2.55E-03 | 4.23E-03 | 4.45E-02 | 3.26E-02 | 8.10E-02 | 9.72E-02 | 0.00E+00                         | 3.96E-02          | 4.57E-03         | 4.00E-04          | 0.00E+00                |
| Montana  | Golden Valley County | 30037 | R                    | 1.16E-03                                                                | 1.19E-03 | 1.27E-03 | 1.40E-03 | 1.45E-03 | 1.53E-03 | 1.61E-03 | 1.64E-03 | 4.53E-07                         | 9.24E-04          | 4.71E-04         | 5.59E-05          | 0.00E+00                |
| Montana  | Granite County       | 30039 | R                    | 6.28E-03                                                                | 6.40E-03 | 6.75E-03 | 7.34E-03 | 7.12E-03 | 7.92E-03 | 8.28E-03 | 8.39E-03 | 0.00E+00                         | 6.45E-03          | 5.81E-04         | 8.08E-05          | 0.00E+00                |
| Montana  | Hill County          | 30041 | U                    | 5.60E-04                                                                | 5.85E-04 | 6.30E-04 | 3.98E-03 | 2.33E-02 | 1.88E-02 | 3.23E-02 | 3.23E-02 | 0.00E+00                         | 8.16E-04          | 1.23E-02         | 1.02E-02          | 0.00E+00                |
| Montana  | Jefferson County     | 30043 | R                    | 4.43E-03                                                                | 4.81E-03 | 5.94E-03 | 7.82E-03 | 9.06E-03 | 9.70E-03 | 1.08E-02 | 1.12E-02 | 0.00E+00                         | 5.18E-03          | 2.74E-03         | 1.15E-03          | 0.00E+00                |
| Montana  | Judith Basin County  | 30045 | R                    | 2.28E-03                                                                | 2.51E-03 | 3.22E-03 | 4.40E-03 | 4.01E-03 | 4.55E-03 | 4.65E-03 | 4.68E-03 | 7.07E-11                         | 3.35E-03          | 5.61E-04         | 1.03E-04          | 0.00E+00                |
| Montana  | Lake County          | 30047 | R                    | 7.07E-03                                                                | 8.02E-03 | 9.42E-03 | 9.73E-03 | 1.34E-02 | 1.77E-02 | 2.34E-02 | 2.59E-02 | 0.00E+00                         | 7.16E-03          | 4.98E-03         | 1.24E-03          | 0.00E+00                |
| Montana  | Lewis and Clark Coun | 30049 | U                    | 2.17E-03                                                                | 7.88E-03 | 1.88E-02 | 4.51E-02 | 5.49E-02 | 6.61E-02 | 7.26E-02 | 8.26E-02 | 3.63E-12                         | 2.23E-02          | 2.19E-02         | 1.07E-02          | 0.00E+00                |
| Montana  | Liberty County       | 30051 | R                    | 5.89E-04                                                                | 6.53E-04 | 8.44E-04 | 1.16E-03 | 8.01E-04 | 1.48E-03 | 1.67E-03 | 1.73E-03 | 0.00E+00                         | 1.83E-04          | 5.00E-04         | 1.18E-04          | 0.00E+00                |
| Montana  | Lincoln County       | 30053 | R                    | 7.83E-03                                                                | 8.13E-03 | 9.03E-03 | 1.79E-02 | 1.15E-01 | 4.59E-02 | 3.68E-01 | 4.76E-01 | 0.00E+00                         | 1.07E-01          | 6.40E-03         | 7.96E-04          | 0.00E+00                |
| Montana  | McCone County        | 30055 | R                    | 2.51E-04                                                                | 2.56E-04 | 2.69E-04 | 2.92E-04 | 2.78E-04 | 3.15E-04 | 3.29E-04 | 3.34E-04 | 0.00E+00                         | 5.46E-08          | 2.19E-04         | 5.84E-05          | 0.00E+00                |
| Montana  | Madison County       | 30057 | R                    | 4.58E-03                                                                | 4.90E-03 | 5.85E-03 | 6.68E-03 | 7.45E-03 | 9.56E-03 | 1.13E-02 | 1.19E-02 | 0.00E+00                         | 6.21E-03          | 9.62E-04         | 2.81E-04          | 0.00E+00                |
| Montana  | Meagher County       | 30059 | R                    | 2.44E-03                                                                | 2.50E-03 | 2.68E-03 | 2.99E-03 | 3.37E-03 | 3.29E-03 | 3.47E-03 | 3.54E-03 | 6.76E-13                         | 3.07E-03          | 2.42E-04         | 6.13E-05          | 0.00E+00                |
| Montana  | Mineral County       | 30061 | R                    | 7.51E-03                                                                | 7.61E-03 | 7.92E-03 | 8.44E-03 | 1.15E-02 | 1.39E-02 | 1.72E-02 | 1.83E-02 | 0.00E+00                         | 9.87E-03          | 1.43E-03         | 1.88E-04          | 0.00E+00                |
| Montana  | Missoula County      | 30063 | U                    | 2.24E-02                                                                | 2.38E-02 | 7.44E-02 | 9.43E-02 | 8.54E-02 | 1.16E-01 | 1.37E-01 | 1.41E-01 | 0.00E+00                         | 2.95E-02          | 4.45E-02         | 1.14E-02          | 0.00E+00                |
| Montana  | Musselshell County   | 30065 | R                    | 7.81E-04                                                                | 8.62E-04 | 1.11E-03 | 1.51E-03 | 1.45E-03 | 1.61E-03 | 1.67E-03 | 1.69E-03 | 5.32E-07                         | 4.00E-04          | 9.45E-04         | 1.05E-04          | 0.00E+00                |
| Montana  | Park County          | 30067 | R                    | 1.39E-02                                                                | 1.41E-02 | 1.47E-02 | 1.48E-02 | 6.56E-02 | 8.99E-02 | 1.11E-01 | 1.19E-01 | 0.00E+00                         | 5.11E-02          | 1.35E-02         | 1.13E-03          | 0.00E+00                |
| Montana  | Petroleum County     | 30069 | R                    | 2.29E-04                                                                | 2.29E-04 | 2.29E-04 | 2.29E-04 | 2.29E-04 | 2.29E-04 | 2.29E-04 | 2.29E-04 | 0.00E+00                         | 1.16E-04          | 7.02E-05         | 4.20E-05          | 0.00E+00                |
| Montana  | Phillips County      | 30071 | R                    | 2.64E-04                                                                | 2.80E-04 | 3.27E-04 | 4.06E-04 | 3.91E-04 | 4.07E-04 | 4.07E-04 | 4.08E-04 | 0.00E+00                         | 1.80E-05          | 3.11E-04         | 6.19E-05          | 0.00E+00                |
| Montana  | Pondera County       | 30073 | R                    | 1.11E-03                                                                | 1.20E-03 | 1.46E-03 | 1.89E-03 | 1.63E-03 | 2.32E-03 | 2.58E-03 | 2.67E-03 | 1.80E-11                         | 8.81E-04          | 6.28E-04         | 1.21E-04          | 0.00E+00                |
| Montana  | Powder River County  | 30075 | R                    | 6.77E-04                                                                | 6.77E-04 | 6.78E-04 | 6.78E-04 | 6.78E-04 | 6.79E-04 | 6.79E-04 | 6.79E-04 | 0.00E+00                         | 2.90E-04          | 3.44E-04         | 4.45E-05          | 0.00E+00                |
| Montana  | Powell County        | 30077 | U                    | 5.99E-03                                                                | 6.09E-03 | 6.39E-03 | 6.90E-03 | 9.60E-03 | 8.69E-03 | 9.76E-03 | 1.01E-02 | 0.00E+00                         | 8.00E-03          | 1.38E-03         | 2.18E-04          | 0.00E+00                |
| Montana  | Prairie County       | 30079 | R                    | 2.18E-04                                                                | 2.18E-04 | 2.18E-04 | 2.18E-04 | 2.18E-04 | 2.18E-04 | 2.18E-04 | 2.18E-04 | 0.00E+00                         | 8.38E-06          | 1.76E-04         | 3.35E-05          | 0.00E+00                |
| Montana  | Ravalli County       | 30081 | R                    | 8.63E-03                                                                | 9.37E-03 | 1.74E-02 | 2.60E-02 | 2.24E-02 | 2.88E-02 | 2.90E-02 | 2.92E-02 | 0.00E+00                         | 1.44E-02          | 7.20E-03         | 8.08E-04          | 0.00E+00                |
| Montana  | Richland County      | 30083 | R                    | 1.19E-03                                                                | 1.32E-03 | 1.72E-03 | 2.24E-03 | 6.14E-03 | 8.30E-03 | 8.38E-03 | 8.41E-03 | 0.00E+00                         | 1.94E-03          | 3.68E-03         | 5.16E-04          | 0.00E+00                |
| Montana  | Roosevelt County     | 30085 | R                    | 9.11E-04                                                                | 9.19E-04 | 9.44E-04 | 9.86E-04 | 5.36E-03 | 7.29E-03 | 1.11E-02 | 1.23E-02 | 0.00E+00                         | 3.26E-05          | 5.18E-03         | 1.53E-04          | 0.00E+00                |
| Montana  | Rosebud County       | 30087 | R                    | 6.24E-04                                                                | 6.54E-04 | 7.40E-04 | 9.20E-04 | 1.65E-03 | 1.27E-03 | 2.96E-03 | 3.76E-03 | 0.00E+00                         | 3.57E-04          | 1.23E-03         | 6.73E-05          | 0.00E+00                |
| Montana  | Sanders County       | 30089 | R                    | 8.40E-03                                                                | 8.67E-03 | 9.50E-03 | 1.09E-02 | 1.04E-02 | 1.33E-02 | 1.48E-02 | 1.52E-02 | 0.00E+00                         | 8.68E-03          | 1.47E-03         | 2.10E-04          | 0.00E+00                |
| Montana  | Sheridan County      | 30091 | R                    | 7.58E-04                                                                | 7.63E-04 | 7.78E-04 | 8.04E-04 | 8.02E-04 | 8.12E-04 | 8.18E-04 | 8.20E-04 | 0.00E+00                         | 2.05E-07          | 6.82E-04         | 1.19E-04          | 0.00E+00                |
| Montana  | Silver Bow County    | 30093 | U                    | 8.74E-03                                                                | 1.00E-02 | 3.90E-02 | 4.23E-02 | 5.71E-02 | 7.30E-02 | 8.21E-02 | 8.27E-02 | 0.00E+00                         | 3.15E-02          | 1.82E-02         | 7.40E-03          | 0.00E+00                |
| Montana  | Stillwater County    | 30095 | R                    | 1.76E-03                                                                | 2.10E-03 | 3.09E-03 | 4.33E-03 | 4.55E-03 | 5.24E-03 | 5.66E-03 | 5.80E-03 | 2.08E-06                         | 2.44E-03          | 1.85E-03         | 2.58E-04          | 0.00E+00                |
| Montana  | Sweet Grass County   | 30097 | R                    | 7.40E-03                                                                | 7.40E-03 | 7.41E-03 | 7.43E-03 | 7.45E-03 | 7.45E-03 | 7.46E-03 | 7.46E-03 | 7.05E-07                         | 6.04E-03          | 1.10E-03         | 3.01E-04          | 0.00E+00                |
| Montana  | Teton County         | 30099 | R                    | 1.36E-03                                                                | 1.57E-03 | 2.20E-03 | 3.24E-03 | 3.18E-03 | 3.84E-03 | 4.21E-03 | 4.33E-03 | 1.54E-10                         | 2.05E-03          | 9.56E-04         | 1.68E-04          | 0.00E+00                |
| Montana  | Toole County         | 30101 | U                    | 5.49E-04                                                                | 5.51E-04 | 5.54E-04 | 5.61E-04 | 5.65E-04 | 5.67E-04 | 5.70E-04 | 5.72E-04 | 2.59E-13                         | 1.02E-04          | 3.40E-04         | 1.24E-04          | 0.00E+00                |
| Montana  | Treasure County      | 30103 | R                    | 4.74E-04                                                                | 4.74E-04 | 4.74E-04 | 4.74E-04 | 4.74E-04 | 4.74E-04 | 4.74E-04 | 4.74E-04 | 4.48E-07                         | 3.18E-05          | 3.74E-04         | 6.85E-05          | 0.00E+00                |
| Montana  | Valley County        | 30105 | R                    | 8.12E-05                                                                | 1.62E-04 | 2.90E-04 | 3.47E-04 | 7.78E-04 | 6.86E-04 | 9.19E-04 | 9.49E-04 | 0.00E+00                         | 2.60E-05          | 5.40E-04         | 2.12E-04          | 0.00E+00                |
| Montana  | Wheatland County     | 30107 | R                    | 2.70E-03                                                                | 2.71E-03 | 2.71E-03 | 2.73E-03 | 2.74E-03 | 2.74E-03 | 2.75E-03 | 2.75E-03 | 5.31E-08                         | 2.04E-03          | 6.20E-04         | 8.33E-05          | 0.00E+00                |
| Montana  | Wibaux County        | 30109 | R                    | 4.60E-04                                                                | 4.60E-04 | 4.60E-04 | 4.60E-04 | 4.60E-04 | 4.60E-04 | 4.60E-04 | 4.60E-04 | 0.00E+00                         | 1.26E-05          | 3.85E-04         | 6.28E-05          | 0.00E+00                |
| Montana  | Yellowstone County   | 30111 | U                    | 2.12E-02                                                                | 3.14E-02 | 4.53E-02 | 6.07E-02 | 5.83E-02 | 7.96E-02 | 8.58E-02 | 9.23E-02 | 2.15E-04                         | 1.78E-03          | 4.60E-02         | 1.03E-02          | 0.00E+00                |
| Montana  | Yellowstone National | 30113 | R                    | 9.90E-03                                                                | 9.90E-03 | 9.90E-03 | 9.90E-03 | 9.90E-03 | 9.90E-03 | 9.90E-03 | 9.90E-03 | 0.00E+00                         | 9.45E-03          | 3.46E-04         | 1.07E-04          | 0.00E+00                |
| Nebraska | Statewide            | 31000 | -                    | 7.11E-04                                                                | 1.15E-03 | 3.16E-03 | 1.87E-02 | 3.55E-02 | 5.84E-02 | 7.93E-02 | 9.12E-02 | 2.18E-05                         | 1.04E-03          | 2.65E-02         | 7.97E-03          | 0.00E+00                |
| Nebraska | State Urban Counties | 31000 | U                    | 2.34E-03                                                                | 3.84E-03 | 1.38E-02 | 4.23E-02 | 4.52E-02 | 6.86E-02 | 8.61E-02 | 9.65E-02 | 2.68E-05                         | 7.75E-04          | 3.41E-02         | 1.03E-02          | 0.00E+00                |
| Nebraska | State Rural Counties | 31000 | R                    | 3.40E-04                                                                | 5.33E-04 | 1.09E-03 | 2.32E-03 | 4.76E-03 | 3.77E-03 | 7.77E-03 | 1.83E-02 | 5.92E-06                         | 1.86E-03          | 2.46E-03         | 4.24E-04          | 0.00E+00                |

| State    | County           | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                  |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                  |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Nebraska | Adams County     | 31001 | U                    | 3.51E-03                                                                | 3.53E-03 | 8.38E-03 | 1.48E-02 | 1.49E-02 | 2.10E-02 | 2.57E-02 | 2.80E-02 | 0.00E+00                         | 3.73E-04          | 8.83E-03         | 5.68E-03          | 0.00E+00                |
| Nebraska | Antelope County  | 31003 | R                    | 1.34E-03                                                                | 1.37E-03 | 1.47E-03 | 1.63E-03 | 4.75E-03 | 8.35E-03 | 1.24E-02 | 1.37E-02 | 0.00E+00                         | 2.33E-03          | 2.14E-03         | 2.80E-04          | 0.00E+00                |
| Nebraska | Arthur County    | 31005 | R                    | 6.15E-04                                                                | 6.15E-04 | 6.15E-04 | 6.15E-04 | 6.15E-04 | 6.15E-04 | 6.15E-04 | 6.15E-04 | 0.00E+00                         | 4.83E-04          | 9.06E-05         | 4.21E-05          | 0.00E+00                |
| Nebraska | Banner County    | 31007 | R                    | 1.16E-03                                                                | 1.16E-03 | 1.16E-03 | 1.16E-03 | 1.16E-03 | 1.16E-03 | 1.16E-03 | 1.16E-03 | 9.78E-12                         | 5.33E-04          | 4.24E-04         | 2.01E-04          | 0.00E+00                |
| Nebraska | Blaine County    | 31009 | R                    | 1.98E-04                                                                | 1.98E-04 | 1.98E-04 | 1.98E-04 | 1.98E-04 | 1.98E-04 | 1.98E-04 | 1.98E-04 | 0.00E+00                         | 4.73E-05          | 1.16E-04         | 3.50E-05          | 0.00E+00                |
| Nebraska | Boone County     | 31011 | R                    | 1.09E-02                                                                | 1.09E-02 | 1.09E-02 | 1.09E-02 | 1.09E-02 | 1.09E-02 | 1.10E-02 | 1.10E-02 | 0.00E+00                         | 5.42E-03          | 5.00E-03         | 5.19E-04          | 0.00E+00                |
| Nebraska | Box Butte County | 31013 | U                    | 2.67E-03                                                                | 3.08E-03 | 4.30E-03 | 6.33E-03 | 5.54E-03 | 6.42E-03 | 6.48E-03 | 6.50E-03 | 0.00E+00                         | 2.15E-03          | 2.06E-03         | 1.33E-03          | 0.00E+00                |
| Nebraska | Boyd County      | 31015 | R                    | 1.17E-03                                                                | 1.17E-03 | 1.17E-03 | 1.17E-03 | 1.17E-03 | 1.17E-03 | 1.17E-03 | 1.17E-03 | 0.00E+00                         | 4.42E-04          | 6.14E-04         | 1.17E-04          | 0.00E+00                |
| Nebraska | Brown County     | 31017 | R                    | 6.59E-04                                                                | 6.59E-04 | 6.59E-04 | 6.59E-04 | 6.59E-04 | 6.59E-04 | 6.59E-04 | 6.59E-04 | 0.00E+00                         | 2.40E-04          | 3.62E-04         | 5.76E-05          | 0.00E+00                |
| Nebraska | Buffalo County   | 31019 | U                    | 1.92E-03                                                                | 1.93E-03 | 3.07E-03 | 9.78E-03 | 1.21E-02 | 2.07E-02 | 2.24E-02 | 2.45E-02 | 0.00E+00                         | 1.42E-04          | 7.48E-03         | 4.43E-03          | 0.00E+00                |
| Nebraska | Burt County      | 31021 | R                    | 2.18E-03                                                                | 2.20E-03 | 2.27E-03 | 2.38E-03 | 2.38E-03 | 2.48E-03 | 2.53E-03 | 2.55E-03 | 7.71E-10                         | 2.80E-04          | 1.74E-03         | 3.53E-04          | 0.00E+00                |
| Nebraska | Butler County    | 31023 | R                    | 2.37E-03                                                                | 2.42E-03 | 2.57E-03 | 2.81E-03 | 3.23E-03 | 3.66E-03 | 4.18E-03 | 4.35E-03 | 4.84E-07                         | 4.85E-04          | 2.30E-03         | 4.49E-04          | 0.00E+00                |
| Nebraska | Cass County      | 31025 | U                    | 5.13E-03                                                                | 5.49E-03 | 6.82E-03 | 8.87E-03 | 1.17E-02 | 1.65E-02 | 1.94E-02 | 1.95E-02 | 1.68E-06                         | 1.27E-03          | 8.41E-03         | 1.97E-03          | 0.00E+00                |
| Nebraska | Cedar County     | 31027 | R                    | 2.04E-04                                                                | 4.08E-04 | 1.02E-03 | 2.04E-03 | 2.32E-03 | 2.31E-03 | 2.47E-03 | 2.52E-03 | 0.00E+00                         | 3.31E-04          | 1.64E-03         | 3.53E-04          | 0.00E+00                |
| Nebraska | Chase County     | 31029 | R                    | 7.90E-04                                                                | 7.90E-04 | 7.90E-04 | 7.90E-04 | 7.90E-04 | 7.90E-04 | 7.90E-04 | 7.90E-04 | 0.00E+00                         | 1.77E-04          | 5.06E-04         | 1.07E-04          | 0.00E+00                |
| Nebraska | Cherry County    | 31031 | R                    | 2.68E-04                                                                | 2.87E-04 | 3.46E-04 | 4.45E-04 | 5.29E-04 | 5.43E-04 | 6.02E-04 | 6.22E-04 | 0.00E+00                         | 3.29E-04          | 1.42E-04         | 5.93E-05          | 0.00E+00                |
| Nebraska | Cheyenne County  | 31033 | U                    | 2.05E-03                                                                | 3.03E-03 | 5.96E-03 | 1.09E-02 | 7.43E-03 | 1.09E-02 | 1.10E-02 | 1.10E-02 | 0.00E+00                         | 4.31E-04          | 3.76E-03         | 3.24E-03          | 0.00E+00                |
| Nebraska | Clay County      | 31035 | R                    | 1.96E-03                                                                | 1.97E-03 | 1.99E-03 | 2.02E-03 | 2.02E-03 | 2.05E-03 | 2.07E-03 | 2.07E-03 | 0.00E+00                         | 9.54E-05          | 1.49E-03         | 4.33E-04          | 0.00E+00                |
| Nebraska | Colfax County    | 31037 | R                    | 2.38E-03                                                                | 2.39E-03 | 2.42E-03 | 2.46E-03 | 3.98E-03 | 4.04E-03 | 4.99E-03 | 5.30E-03 | 1.76E-07                         | 8.43E-04          | 2.57E-03         | 5.72E-04          | 0.00E+00                |
| Nebraska | Cuming County    | 31039 | R                    | 2.30E-03                                                                | 2.32E-03 | 2.38E-03 | 2.48E-03 | 2.60E-03 | 2.68E-03 | 2.80E-03 | 2.84E-03 | 0.00E+00                         | 3.23E-04          | 1.91E-03         | 3.66E-04          | 0.00E+00                |
| Nebraska | Custer County    | 31041 | R                    | 4.70E-04                                                                | 4.87E-04 | 5.37E-04 | 7.26E-04 | 1.67E-03 | 1.58E-03 | 2.84E-03 | 3.26E-03 | 0.00E+00                         | 1.30E-04          | 1.37E-03         | 1.69E-04          | 0.00E+00                |
| Nebraska | Dakota County    | 31043 | U                    | 6.89E-03                                                                | 8.15E-03 | 1.20E-02 | 2.12E-02 | 2.29E-02 | 3.04E-02 | 3.42E-02 | 3.55E-02 | 0.00E+00                         | 5.77E-04          | 1.71E-02         | 5.24E-03          | 0.00E+00                |
| Nebraska | Dawes County     | 31045 | U                    | 1.64E-03                                                                | 2.31E-03 | 4.33E-03 | 7.69E-03 | 9.50E-03 | 1.11E-02 | 1.31E-02 | 1.37E-02 | 0.00E+00                         | 7.04E-03          | 1.54E-03         | 9.19E-04          | 0.00E+00                |
| Nebraska | Dawson County    | 31047 | U                    | 3.50E-03                                                                | 3.88E-03 | 5.03E-03 | 6.88E-03 | 2.09E-02 | 3.05E-02 | 4.02E-02 | 4.02E-02 | 0.00E+00                         | 2.49E-03          | 3.35E-03         | 1.50E-02          | 0.00E+00                |
| Nebraska | Deuel County     | 31049 | R                    | 2.00E-03                                                                | 2.00E-03 | 2.00E-03 | 2.00E-03 | 2.00E-03 | 2.00E-03 | 2.00E-03 | 2.00E-03 | 0.00E+00                         | 8.53E-04          | 9.58E-04         | 1.91E-04          | 0.00E+00                |
| Nebraska | Dixon County     | 31051 | R                    | 2.49E-03                                                                | 2.51E-03 | 2.60E-03 | 2.75E-03 | 2.71E-03 | 2.89E-03 | 2.98E-03 | 3.01E-03 | 0.00E+00                         | 2.87E-04          | 1.97E-03         | 4.51E-04          | 0.00E+00                |
| Nebraska | Dodge County     | 31053 | U                    | 3.15E-03                                                                | 3.37E-03 | 1.71E-02 | 2.56E-02 | 2.52E-02 | 3.79E-02 | 4.21E-02 | 4.51E-02 | 2.55E-07                         | 1.20E-03          | 1.53E-02         | 8.74E-03          | 0.00E+00                |
| Nebraska | Douglas County   | 31055 | U                    | 4.32E-02                                                                | 5.19E-02 | 6.32E-02 | 7.34E-02 | 7.39E-02 | 8.74E-02 | 1.01E-01 | 1.15E-01 | 5.47E-08                         | 2.40E-04          | 5.82E-02         | 1.54E-02          | 0.00E+00                |
| Nebraska | Dundy County     | 31057 | R                    | 4.11E-04                                                                | 4.11E-04 | 4.11E-04 | 4.11E-04 | 4.11E-04 | 4.11E-04 | 4.11E-04 | 4.11E-04 | 0.00E+00                         | 4.13E-05          | 3.09E-04         | 6.03E-05          | 0.00E+00                |
| Nebraska | Fillmore County  | 31059 | R                    | 3.43E-03                                                                | 3.43E-03 | 3.44E-03 | 3.44E-03 | 3.45E-03 | 3.45E-03 | 3.45E-03 | 3.45E-03 | 3.68E-10                         | 2.43E-04          | 2.77E-03         | 4.35E-04          | 0.00E+00                |
| Nebraska | Franklin County  | 31061 | R                    | 1.08E-03                                                                | 1.08E-03 | 1.09E-03 | 1.10E-03 | 1.10E-03 | 1.11E-03 | 1.12E-03 | 1.12E-03 | 0.00E+00                         | 1.39E-04          | 7.91E-04         | 1.71E-04          | 0.00E+00                |
| Nebraska | Frontier County  | 31063 | R                    | 4.23E-04                                                                | 4.23E-04 | 4.23E-04 | 4.23E-04 | 4.23E-04 | 4.23E-04 | 4.23E-04 | 4.23E-04 | 0.00E+00                         | 5.85E-06          | 2.66E-04         | 1.52E-04          | 0.00E+00                |
| Nebraska | Furnas County    | 31065 | R                    | 8.26E-05                                                                | 1.65E-04 | 4.13E-04 | 8.26E-04 | 1.73E-03 | 1.48E-03 | 1.87E-03 | 2.00E-03 | 0.00E+00                         | 2.20E-04          | 1.28E-03         | 2.25E-04          | 0.00E+00                |
| Nebraska | Gage County      | 31067 | U                    | 2.40E-03                                                                | 2.45E-03 | 3.02E-03 | 1.03E-02 | 1.12E-02 | 1.73E-02 | 2.40E-02 | 2.45E-02 | 4.30E-07                         | 7.99E-04          | 7.55E-03         | 2.80E-03          | 0.00E+00                |
| Nebraska | Garden County    | 31069 | R                    | 9.83E-04                                                                | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 0.00E+00                         | 6.43E-04          | 2.36E-04         | 1.04E-04          | 0.00E+00                |
| Nebraska | Garfield County  | 31071 | R                    | 6.62E-04                                                                | 6.62E-04 | 6.62E-04 | 6.62E-04 | 6.62E-04 | 6.62E-04 | 6.62E-04 | 6.62E-04 | 0.00E+00                         | 1.17E-04          | 4.56E-04         | 8.86E-05          | 0.00E+00                |
| Nebraska | Gosper County    | 31073 | R                    | 9.79E-04                                                                | 9.79E-04 | 9.79E-04 | 9.79E-04 | 9.79E-04 | 9.79E-04 | 9.79E-04 | 9.79E-04 | 0.00E+00                         | 1.29E-04          | 3.75E-04         | 4.74E-04          | 0.00E+00                |
| Nebraska | Grant County     | 31075 | R                    | 1.19E-03                                                                | 1.19E-03 | 1.19E-03 | 1.19E-03 | 1.19E-03 | 1.19E-03 | 1.19E-03 | 1.19E-03 | 0.00E+00                         | 1.02E-03          | 1.24E-04         | 5.05E-05          | 0.00E+00                |
| Nebraska | Greeley County   | 31077 | R                    | 8.44E-04                                                                | 8.44E-04 | 8.44E-04 | 8.44E-04 | 8.44E-04 | 8.44E-04 | 8.44E-04 | 8.44E-04 | 0.00E+00                         | 1.57E-04          | 6.02E-04         | 8.56E-05          | 0.00E+00                |
| Nebraska | Hall County      | 31079 | U                    | 3.54E-03                                                                | 3.84E-03 | 1.07E-02 | 1.42E-02 | 1.58E-02 | 1.80E-02 | 2.36E-02 | 2.54E-02 | 0.00E+00                         | 1.85E-04          | 9.32E-03         | 6.29E-03          | 0.00E+00                |
| Nebraska | Hamilton County  | 31081 | R                    | 2.02E-03                                                                | 2.06E-03 | 2.20E-03 | 2.42E-03 | 4.25E-03 | 4.52E-03 | 5.78E-03 | 6.20E-03 | 2.59E-08                         | 6.54E-04          | 2.85E-03         | 7.46E-04          | 0.00E+00                |
| Nebraska | Harlan County    | 31083 | R                    | 1.09E-03                                                                | 1.13E-03 | 1.27E-03 | 1.49E-03 | 1.62E-03 | 1.72E-03 | 1.85E-03 | 1.89E-03 | 0.00E+00                         | 2.92E-04          | 1.01E-03         | 3.18E-04          | 0.00E+00                |
| Nebraska | Hayes County     | 31085 | R                    | 3.09E-04                                                                | 3.09E-04 | 3.09E-04 | 3.09E-04 | 3.09E-04 | 3.09E-04 | 3.09E-04 | 3.09E-04 | 0.00E+00                         | 2.62E-05          | 2.13E-04         | 6.98E-05          | 0.00E+00                |
| Nebraska | Hitchcock County | 31087 | R                    | 5.93E-04                                                                | 5.93E-04 | 5.93E-04 | 5.93E-04 | 5.93E-04 | 5.93E-04 | 5.93E-04 | 5.93E-04 | 0.00E+00                         | 4.70E-06          | 4.27E-04         | 1.61E-04          | 0.00E+00                |
| Nebraska | Holt County      | 31089 | R                    | 6.37E-04                                                                | 7.21E-04 | 9.74E-04 | 1.48E-03 | 2.12E-03 | 2.34E-03 | 3.24E-03 | 3.54E-03 | 0.00E+00                         | 4.39E-04          | 1.46E-03         | 2.17E-04          | 0.00E+00                |
| Nebraska | Hooker County    | 31091 | R                    | 5.05E-04                                                                | 5.05E-04 | 5.05E-04 | 5.05E-04 | 5.05E-04 | 5.05E-04 | 5.05E-04 | 5.05E-04 | 0.00E+00                         | 1.58E-04          | 2.45E-04         | 1.03E-04          | 0.00E+00                |
| Nebraska | Howard County    | 31093 | R                    | 3.55E-03                                                                | 3.56E-03 | 3.59E-03 | 3.63E-03 | 3.60E-03 | 3.68E-03 | 3.71E-03 | 3.72E-03 | 0.00E+00                         | 5.45E-04          | 2.39E-03         | 6.62E-04          | 0.00E+00                |
| Nebraska | Jefferson County | 31095 | R                    | 5.95E-03                                                                | 9.62E-03 | 2.06E-02 | 3.90E-02 | 2.20E-02 | 3.90E-02 | 3.90E-02 | 3.90E-02 | 3.84E-08                         | 1.59E-02          | 5.34E-03         | 7.05E-04          | 0.00E+00                |
| Nebraska | Johnson County   | 31097 | R                    | 3.12E-03                                                                | 3.31E-03 | 3.89E-03 | 4.85E-03 | 4.90E-03 | 5.81E-03 | 6.38E-03 | 6.57E-03 | 8.80E-07                         | 1.80E-03          | 2.66E-03         | 4.32E-04          | 0.00E+00                |
| Nebraska | Kearney County   | 31099 | R                    | 1.73E-03                                                                | 1.81E-03 | 2.05E-03 | 2.45E-03 | 2.33E-03 | 2.84E-03 | 3.08E-03 | 3.16E-03 | 0.00E+00                         | 7.75E-05          | 1.79E-03         | 4.61E-04          | 0.00E+00                |
| Nebraska | Keith County     | 31101 | U                    | 7.71E-04                                                                | 8.46E-04 | 1.07E-03 | 2.56E-03 | 4.75E-03 | 6.56E-03 | 1.13E-02 | 1.29E-02 | 0.00E+00                         | 2.18E-04          | 2.49E-03         | 2.04E-03          | 0.00E+00                |
| Nebraska | Keya Paha County | 31103 | R                    | 7.57E-04                                                                | 7.57E-04 | 7.57E-04 | 7.57E-04 | 7.57E-04 | 7.57E-04 | 7.57E-04 | 7.57E-04 | 0.00E+00                         | 5.14E-04          | 1.96E-04         | 4.78E-05          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Nebraska | Kimball County       | 31105 | U                    | 2.26E-03                                                                | 2.26E-03 | 2.28E-03 | 2.30E-03 | 2.28E-03 | 2.32E-03 | 2.33E-03 | 2.33E-03 | 1.12E-11                         | 2.61E-04          | 1.17E-03         | 8.49E-04          | 0.00E+00                |
| Nebraska | Knox County          | 31107 | R                    | 1.55E-03                                                                | 1.59E-03 | 1.72E-03 | 1.95E-03 | 1.98E-03 | 2.25E-03 | 2.42E-03 | 2.48E-03 | 0.00E+00                         | 5.76E-04          | 1.13E-03         | 2.74E-04          | 0.00E+00                |
| Nebraska | Lancaster County     | 31109 | U                    | 1.50E-02                                                                | 2.70E-02 | 3.81E-02 | 4.75E-02 | 5.17E-02 | 5.86E-02 | 7.04E-02 | 8.54E-02 | 1.50E-04                         | 2.54E-04          | 3.85E-02         | 1.28E-02          | 0.00E+00                |
| Nebraska | Lincoln County       | 31111 | U                    | 9.22E-04                                                                | 9.28E-04 | 1.05E-03 | 1.05E-02 | 1.21E-02 | 2.08E-02 | 2.17E-02 | 2.30E-02 | 0.00E+00                         | 2.74E-04          | 7.15E-03         | 4.64E-03          | 0.00E+00                |
| Nebraska | Logan County         | 31113 | R                    | 2.94E-04                                                                | 2.94E-04 | 2.94E-04 | 2.94E-04 | 2.94E-04 | 2.94E-04 | 2.94E-04 | 2.94E-04 | 0.00E+00                         | 2.48E-05          | 1.85E-04         | 8.42E-05          | 0.00E+00                |
| Nebraska | Loup County          | 31115 | R                    | 4.68E-04                                                                | 4.68E-04 | 4.68E-04 | 4.68E-04 | 4.68E-04 | 4.68E-04 | 4.68E-04 | 4.68E-04 | 0.00E+00                         | 2.23E-04          | 2.02E-04         | 4.32E-05          | 0.00E+00                |
| Nebraska | McPherson County     | 31117 | R                    | 3.57E-04                                                                | 3.57E-04 | 3.57E-04 | 3.57E-04 | 3.57E-04 | 3.57E-04 | 3.57E-04 | 3.57E-04 | 0.00E+00                         | 1.52E-04          | 1.35E-04         | 6.89E-05          | 0.00E+00                |
| Nebraska | Madison County       | 31119 | U                    | 3.18E-03                                                                | 3.54E-03 | 9.75E-03 | 1.89E-02 | 1.95E-02 | 2.82E-02 | 3.79E-02 | 3.84E-02 | 0.00E+00                         | 3.58E-03          | 1.02E-02         | 5.69E-03          | 0.00E+00                |
| Nebraska | Merrick County       | 31121 | R                    | 2.66E-03                                                                | 2.80E-03 | 3.21E-03 | 3.89E-03 | 4.19E-03 | 4.84E-03 | 5.41E-03 | 5.60E-03 | 0.00E+00                         | 6.55E-04          | 2.95E-03         | 5.83E-04          | 0.00E+00                |
| Nebraska | Morrill County       | 31123 | R                    | 9.53E-04                                                                | 9.53E-04 | 9.53E-04 | 9.53E-04 | 9.53E-04 | 9.53E-04 | 9.53E-04 | 9.53E-04 | 0.00E+00                         | 2.07E-04          | 5.72E-04         | 1.74E-04          | 0.00E+00                |
| Nebraska | Nance County         | 31125 | R                    | 2.01E-03                                                                | 2.01E-03 | 2.01E-03 | 2.01E-03 | 2.01E-03 | 2.01E-03 | 2.01E-03 | 2.01E-03 | 0.00E+00                         | 4.90E-04          | 1.20E-03         | 3.21E-04          | 0.00E+00                |
| Nebraska | Nemaha County        | 31127 | R                    | 7.78E-03                                                                | 7.78E-03 | 7.79E-03 | 7.79E-03 | 7.79E-03 | 7.80E-03 | 7.80E-03 | 7.81E-03 | 3.71E-06                         | 3.40E-03          | 3.83E-03         | 5.61E-04          | 0.00E+00                |
| Nebraska | Nuckolls County      | 31129 | R                    | 1.40E-03                                                                | 1.56E-03 | 2.02E-03 | 2.78E-03 | 2.65E-03 | 3.55E-03 | 4.01E-03 | 4.16E-03 | 0.00E+00                         | 4.91E-04          | 1.93E-03         | 2.26E-04          | 0.00E+00                |
| Nebraska | Otoe County          | 31131 | R                    | 2.75E-03                                                                | 2.95E-03 | 3.54E-03 | 5.52E-03 | 1.41E-02 | 2.44E-02 | 2.44E-02 | 2.44E-02 | 2.14E-06                         | 4.32E-03          | 9.00E-03         | 7.72E-04          | 0.00E+00                |
| Nebraska | Pawnee County        | 31133 | R                    | 2.03E-03                                                                | 2.03E-03 | 2.03E-03 | 2.03E-03 | 2.03E-03 | 2.03E-03 | 2.03E-03 | 2.03E-03 | 5.63E-08                         | 6.66E-04          | 1.19E-03         | 1.83E-04          | 0.00E+00                |
| Nebraska | Perkins County       | 31135 | R                    | 9.83E-04                                                                | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 9.83E-04 | 0.00E+00                         | 4.29E-04          | 4.36E-04         | 1.18E-04          | 0.00E+00                |
| Nebraska | Phelps County        | 31137 | U                    | 2.20E-03                                                                | 3.02E-03 | 5.47E-03 | 9.56E-03 | 6.56E-03 | 9.57E-03 | 9.58E-03 | 9.58E-03 | 0.00E+00                         | 1.09E-03          | 3.11E-03         | 2.37E-03          | 0.00E+00                |
| Nebraska | Pierce County        | 31139 | R                    | 3.21E-03                                                                | 3.23E-03 | 3.30E-03 | 3.42E-03 | 3.42E-03 | 3.53E-03 | 3.60E-03 | 3.63E-03 | 0.00E+00                         | 1.16E-03          | 1.84E-03         | 4.21E-04          | 0.00E+00                |
| Nebraska | Platte County        | 31141 | U                    | 2.89E-03                                                                | 3.55E-03 | 8.11E-03 | 1.61E-02 | 1.68E-02 | 2.11E-02 | 3.12E-02 | 3.63E-02 | 4.34E-08                         | 4.64E-03          | 8.59E-03         | 3.60E-03          | 0.00E+00                |
| Nebraska | Polk County          | 31143 | R                    | 3.85E-03                                                                | 3.85E-03 | 3.85E-03 | 3.86E-03 | 5.07E-03 | 1.16E-01 | 1.83E-01 | 2.05E-01 | 7.74E-09                         | 1.43E-03          | 3.12E-03         | 5.19E-04          | 0.00E+00                |
| Nebraska | Red Willow County    | 31145 | U                    | 2.32E-03                                                                | 3.09E-03 | 5.39E-03 | 9.24E-03 | 7.30E-03 | 9.46E-03 | 9.60E-03 | 9.64E-03 | 0.00E+00                         | 1.77E-04          | 3.44E-03         | 3.68E-03          | 0.00E+00                |
| Nebraska | Richardson County    | 31147 | R                    | 1.87E-03                                                                | 1.95E-03 | 2.19E-03 | 2.57E-03 | 2.87E-03 | 3.02E-03 | 3.38E-03 | 3.50E-03 | 2.06E-04                         | 5.23E-04          | 1.89E-03         | 2.52E-04          | 0.00E+00                |
| Nebraska | Rock County          | 31149 | R                    | 1.07E-03                                                                | 1.07E-03 | 1.07E-03 | 1.07E-03 | 1.07E-03 | 1.07E-03 | 1.07E-03 | 1.07E-03 | 0.00E+00                         | 3.75E-04          | 5.83E-04         | 1.09E-04          | 0.00E+00                |
| Nebraska | Saline County        | 31151 | R                    | 2.39E-03                                                                | 2.51E-03 | 2.89E-03 | 3.13E-03 | 3.96E-03 | 3.70E-03 | 4.67E-03 | 4.99E-03 | 2.05E-06                         | 5.98E-04          | 2.86E-03         | 5.02E-04          | 0.00E+00                |
| Nebraska | Sarpy County         | 31153 | U                    | 2.68E-02                                                                | 2.79E-02 | 3.93E-02 | 5.12E-02 | 5.39E-02 | 6.91E-02 | 7.36E-02 | 7.53E-02 | 3.45E-08                         | 6.95E-04          | 4.44E-02         | 8.81E-03          | 0.00E+00                |
| Nebraska | Saunders County      | 31155 | R                    | 4.16E-03                                                                | 4.53E-03 | 5.65E-03 | 6.17E-03 | 5.96E-03 | 7.75E-03 | 7.77E-03 | 7.78E-03 | 2.93E-06                         | 1.13E-04          | 4.75E-03         | 1.09E-03          | 0.00E+00                |
| Nebraska | Scotts Bluff County  | 31157 | U                    | 4.23E-03                                                                | 5.11E-03 | 6.25E-03 | 1.44E-02 | 2.21E-02 | 3.02E-02 | 3.13E-02 | 4.34E-02 | 0.00E+00                         | 3.22E-03          | 1.21E-02         | 6.77E-03          | 0.00E+00                |
| Nebraska | Seward County        | 31159 | R                    | 4.14E-03                                                                | 4.35E-03 | 4.96E-03 | 2.94E-02 | 2.43E-02 | 5.35E-02 | 5.35E-02 | 5.35E-02 | 2.60E-06                         | 1.70E-02          | 6.30E-03         | 9.28E-04          | 0.00E+00                |
| Nebraska | Sheridan County      | 31161 | R                    | 6.07E-04                                                                | 6.90E-04 | 9.36E-04 | 1.35E-03 | 1.17E-03 | 1.76E-03 | 2.01E-03 | 2.09E-03 | 0.00E+00                         | 5.39E-04          | 5.09E-04         | 1.21E-04          | 0.00E+00                |
| Nebraska | Sherman County       | 31163 | R                    | 1.13E-03                                                                | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 1.13E-03 | 0.00E+00                         | 1.71E-04          | 7.68E-04         | 1.93E-04          | 0.00E+00                |
| Nebraska | Sioux County         | 31165 | R                    | 8.92E-04                                                                | 8.92E-04 | 8.92E-04 | 8.92E-04 | 8.92E-04 | 8.92E-04 | 8.92E-04 | 8.92E-04 | 0.00E+00                         | 5.00E-04          | 2.91E-04         | 1.00E-04          | 0.00E+00                |
| Nebraska | Stanton County       | 31167 | R                    | 4.99E-03                                                                | 5.16E-03 | 5.69E-03 | 6.57E-03 | 7.21E-03 | 7.44E-03 | 7.97E-03 | 8.14E-03 | 0.00E+00                         | 3.43E-03          | 2.92E-03         | 8.56E-04          | 0.00E+00                |
| Nebraska | Thayer County        | 31169 | R                    | 3.32E-03                                                                | 3.32E-03 | 3.32E-03 | 3.33E-03 | 3.33E-03 | 3.34E-03 | 3.34E-03 | 3.34E-03 | 9.24E-08                         | 5.39E-04          | 2.42E-03         | 3.73E-04          | 0.00E+00                |
| Nebraska | Thomas County        | 31171 | 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 | 0.00E+00                         | 5.74E-05          | 1.46E-04         | 1.67E-05          | 0.00E+00                |
| Nebraska | Thurston County      | 31173 | R                    | 3.68E-03                                                                | 3.79E-03 | 4.09E-03 | 4.60E-03 | 4.22E-03 | 5.11E-03 | 5.42E-03 | 5.52E-03 | 0.00E+00                         | 8.17E-04          | 3.03E-03         | 3.68E-04          | 0.00E+00                |
| Nebraska | Valley County        | 31175 | R                    | 1.25E-03                                                                | 1.35E-03 | 1.65E-03 | 2.14E-03 | 2.21E-03 | 2.63E-03 | 2.93E-03 | 3.03E-03 | 0.00E+00                         | 1.19E-04          | 1.91E-03         | 1.86E-04          | 0.00E+00                |
| Nebraska | Washington County    | 31177 | U                    | 6.64E-03                                                                | 7.19E-03 | 8.87E-03 | 1.17E-02 | 1.08E-02 | 1.22E-02 | 1.25E-02 | 1.26E-02 | 1.59E-08                         | 1.20E-03          | 7.47E-03         | 2.09E-03          | 0.00E+00                |
| Nebraska | Wayne County         | 31179 | U                    | 3.42E-03                                                                | 3.67E-03 | 4.41E-03 | 5.65E-03 | 6.07E-03 | 6.90E-03 | 7.64E-03 | 7.89E-03 | 0.00E+00                         | 1.77E-03          | 2.95E-03         | 1.36E-03          | 0.00E+00                |
| Nebraska | Webster County       | 31181 | R                    | 1.15E-03                                                                | 1.16E-03 | 1.19E-03 | 1.23E-03 | 1.24E-03 | 1.28E-03 | 1.30E-03 | 1.31E-03 | 0.00E+00                         | 1.95E-04          | 8.26E-04         | 2.15E-04          | 0.00E+00                |
| Nebraska | Wheeler County       | 31183 | 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                         | 9.87E-04          | 2.87E-04         | 5.17E-05          | 0.00E+00                |
| Nebraska | York County          | 31185 | U                    | 2.43E-03                                                                | 2.47E-03 | 2.59E-03 | 7.10E-03 | 7.88E-03 | 1.16E-02 | 1.16E-02 | 1.16E-02 | 5.42E-08                         | 4.23E-04          | 4.97E-03         | 2.48E-03          | 0.00E+00                |
| Nevada   | Statewide            | 32000 | -                    | 0.00E+00                                                                | 2.22E-04 | 6.69E-03 | 4.16E-02 | 5.59E-02 | 6.36E-02 | 1.04E-01 | 1.27E-01 | 0.00E+00                         | 2.66E-03          | 3.43E-02         | 1.89E-02          | 0.00E+00                |
| Nevada   | State Urban Counties | 32000 | U                    | 0.00E+00                                                                | 2.09E-03 | 2.76E-02 | 5.13E-02 | 5.90E-02 | 7.15E-02 | 1.08E-01 | 1.31E-01 | 0.00E+00                         | 2.14E-03          | 3.63E-02         | 2.06E-02          | 0.00E+00                |
| Nevada   | State Rural Counties | 32000 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 2.25E-03 | 2.24E-02 | 1.24E-02 | 3.40E-02 | 5.09E-02 | 0.00E+00                         | 8.27E-03          | 1.30E-02         | 1.05E-03          | 0.00E+00                |
| Nevada   | Churchill County     | 32001 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-02 | 4.83E-03 | 1.67E-02 | 2.69E-02 | 0.00E+00                         | 2.62E-03          | 3.03E-02         | 1.06E-03          | 0.00E+00                |
| Nevada   | Clark County         | 32003 | U                    | 1.74E-02                                                                | 2.18E-02 | 3.56E-02 | 4.91E-02 | 5.12E-02 | 6.26E-02 | 7.63E-02 | 8.29E-02 | 0.00E+00                         | 5.95E-04          | 2.60E-02         | 2.46E-02          | 0.00E+00                |
| Nevada   | Douglas County       | 32005 | R                    | 2.53E-02                                                                | 2.59E-02 | 2.89E-02 | 3.82E-02 | 3.88E-02 | 4.69E-02 | 5.11E-02 | 5.24E-02 | 0.00E+00                         | 1.85E-02          | 1.83E-02         | 2.05E-03          | 0.00E+00                |
| Nevada   | Elko County          | 32007 | U                    | 2.89E-04                                                                | 1.07E-03 | 2.30E-03 | 6.58E-03 | 2.71E-02 | 2.48E-02 | 9.71E-02 | 1.05E-01 | 0.00E+00                         | 1.02E-02          | 1.43E-02         | 2.65E-03          | 0.00E+00                |
| Nevada   | Esmeralda County     | 32009 | R                    | 5.29E-04                                                                | 5.87E-04 | 7.62E-04 | 1.05E-03 | 1.05E-03 | 1.34E-03 | 1.52E-03 | 1.58E-03 | 0.00E+00                         | 9.47E-04          | 9.67E-05         | 8.36E-06          | 0.00E+00                |
| Nevada   | Eureka County        | 32011 | R                    | 5.38E-05                                                                | 1.08E-04 | 2.69E-04 | 1.25E-03 | 2.00E-03 | 2.30E-03 | 2.34E-03 | 2.35E-03 | 0.00E+00                         | 1.73E-03          | 2.49E-04         | 1.34E-05          | 0.00E+00                |
| Nevada   | Humboldt County      | 32013 | U                    | 5.44E-04                                                                | 5.82E-04 | 6.68E-04 | 1.62E-03 | 2.33E-03 | 2.55E-03 | 2.55E-03 | 2.55E-03 | 0.00E+00                         | 9.61E-04          | 1.30E-03         | 7.50E-05          | 0.00E+00                |
| Nevada   | Lander County        | 32015 | R                    | 7.91E-04                                                                | 9.27E-04 | 1.34E-03 | 2.01E-03 | 8.77E-04 | 2.11E-03 | 2.17E-03 | 2.19E-03 | 0.00E+00                         | 5.48E-04          | 3.06E-04         | 2.37E-05          | 0.00E+00                |

| State         | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|               |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|               |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Nevada        | Lincoln County       | 32017 | R                    | 8.02E-04                                                                | 1.09E-03 | 1.97E-03 | 4.56E-03 | 5.12E-03 | 6.67E-03 | 6.68E-03 | 6.68E-03 | 0.00E+00                         | 4.93E-03          | 1.87E-04         | 9.59E-06          | 0.00E+00                |
| Nevada        | Lyon County          | 32019 | R                    | 1.86E-03                                                                | 3.72E-03 | 7.98E-03 | 1.03E-02 | 1.40E-02 | 1.50E-02 | 1.91E-02 | 1.94E-02 | 0.00E+00                         | 2.48E-03          | 1.04E-02         | 1.08E-03          | 0.00E+00                |
| Nevada        | Mineral County       | 32021 | R                    | 1.40E-03                                                                | 1.40E-03 | 1.40E-03 | 1.40E-03 | 1.40E-03 | 1.40E-03 | 1.40E-03 | 1.40E-03 | 0.00E+00                         | 8.19E-04          | 4.28E-04         | 1.55E-04          | 0.00E+00                |
| Nevada        | Nye County           | 32023 | U                    | 2.26E-04                                                                | 3.02E-04 | 5.28E-04 | 6.68E-04 | 1.13E-03 | 1.63E-03 | 2.44E-03 | 2.71E-03 | 0.00E+00                         | 8.83E-04          | 1.45E-04         | 1.03E-04          | 0.00E+00                |
| Nevada        | Pershing County      | 32027 | R                    | 1.21E-03                                                                | 1.21E-03 | 1.21E-03 | 1.21E-03 | 1.21E-03 | 1.21E-03 | 1.21E-03 | 1.21E-03 | 0.00E+00                         | 5.12E-04          | 6.23E-04         | 7.18E-05          | 0.00E+00                |
| Nevada        | Storey County        | 32029 | R                    | 2.28E-02                                                                | 2.28E-02 | 2.28E-02 | 2.28E-02 | 2.28E-02 | 2.28E-02 | 2.28E-02 | 2.28E-02 | 0.00E+00                         | 2.57E-03          | 1.74E-02         | 2.76E-03          | 0.00E+00                |
| Nevada        | Washoe County        | 32031 | U                    | 0.00E+00                                                                | 0.00E+00 | 4.81E-02 | 7.83E-02 | 9.46E-02 | 1.17E-01 | 1.40E-01 | 1.42E-01 | 0.00E+00                         | 3.73E-03          | 7.54E-02         | 1.55E-02          | 0.00E+00                |
| Nevada        | White Pine County    | 32033 | R                    | 5.40E-03                                                                | 5.57E-03 | 6.09E-03 | 6.97E-03 | 2.16E-02 | 3.36E-02 | 4.95E-02 | 5.49E-02 | 0.00E+00                         | 2.04E-02          | 1.09E-03         | 7.48E-05          | 0.00E+00                |
| Nevada        | Carson City          | 32510 | U                    | 0.00E+00                                                                | 3.23E-03 | 3.29E-02 | 4.37E-02 | 4.68E-02 | 5.32E-02 | 5.53E-02 | 6.65E-02 | 0.00E+00                         | 1.48E-02          | 2.23E-02         | 9.76E-03          | 0.00E+00                |
| New Hampshire | Statewide            | 33000 | -                    | 1.18E-02                                                                | 1.43E-02 | 1.82E-02 | 2.76E-02 | 3.61E-02 | 4.57E-02 | 6.96E-02 | 8.73E-02 | 3.99E-13                         | 5.14E-03          | 2.15E-02         | 9.42E-03          | 0.00E+00                |
| New Hampshire | State Urban Counties | 33000 | U                    | 1.45E-02                                                                | 1.63E-02 | 2.08E-02 | 3.16E-02 | 3.88E-02 | 5.03E-02 | 7.67E-02 | 9.65E-02 | 0.00E+00                         | 3.53E-03          | 2.63E-02         | 9.00E-03          | 0.00E+00                |
| New Hampshire | State Rural Counties | 33000 | R                    | 6.76E-03                                                                | 9.82E-03 | 1.49E-02 | 2.04E-02 | 2.89E-02 | 3.50E-02 | 5.77E-02 | 6.61E-02 | 1.46E-12                         | 9.42E-03          | 8.89E-03         | 1.05E-02          | 0.00E+00                |
| New Hampshire | Belknap County       | 33001 | R                    | 0.00E+00                                                                | 1.43E-02 | 2.87E-02 | 3.98E-02 | 5.12E-02 | 6.08E-02 | 8.18E-02 | 8.42E-02 | 0.00E+00                         | 6.70E-03          | 1.41E-02         | 3.04E-02          | 0.00E+00                |
| New Hampshire | Carroll County       | 33003 | R                    | 1.77E-02                                                                | 1.83E-02 | 1.90E-02 | 2.13E-02 | 2.26E-02 | 2.92E-02 | 3.42E-02 | 3.51E-02 | 0.00E+00                         | 5.20E-03          | 3.69E-03         | 1.37E-02          | 0.00E+00                |
| New Hampshire | Cheshire County      | 33005 | R                    | 8.97E-03                                                                | 9.97E-03 | 1.23E-02 | 1.65E-02 | 2.35E-02 | 3.51E-02 | 3.92E-02 | 4.54E-02 | 0.00E+00                         | 8.89E-03          | 1.26E-02         | 1.94E-03          | 0.00E+00                |
| New Hampshire | Coos County          | 33007 | R                    | 5.35E-03                                                                | 5.82E-03 | 6.91E-03 | 1.43E-02 | 2.84E-02 | 4.25E-02 | 6.19E-02 | 6.20E-02 | 0.00E+00                         | 2.23E-02          | 5.26E-03         | 8.77E-04          | 0.00E+00                |
| New Hampshire | Grafton County       | 33009 | R                    | 1.37E-02                                                                | 1.44E-02 | 1.55E-02 | 1.82E-02 | 2.58E-02 | 2.90E-02 | 3.80E-02 | 4.27E-02 | 0.00E+00                         | 8.55E-03          | 6.66E-03         | 1.06E-02          | 0.00E+00                |
| New Hampshire | Hillsborough County  | 33011 | U                    | 2.06E-02                                                                | 2.28E-02 | 3.36E-02 | 4.90E-02 | 5.16E-02 | 7.44E-02 | 9.80E-02 | 1.18E-01 | 0.00E+00                         | 3.23E-03          | 3.73E-02         | 1.10E-02          | 0.00E+00                |
| New Hampshire | Merrimack County     | 33013 | U                    | 0.00E+00                                                                | 1.18E-02 | 1.43E-02 | 1.68E-02 | 2.11E-02 | 2.32E-02 | 3.53E-02 | 3.74E-02 | 0.00E+00                         | 5.06E-03          | 9.57E-03         | 6.43E-03          | 0.00E+00                |
| New Hampshire | Rockingham County    | 33015 | U                    | 1.80E-02                                                                | 1.93E-02 | 2.31E-02 | 2.84E-02 | 3.51E-02 | 4.24E-02 | 5.31E-02 | 5.68E-02 | 0.00E+00                         | 3.09E-03          | 2.25E-02         | 9.50E-03          | 0.00E+00                |
| New Hampshire | Strafford County     | 33017 | U                    | 1.61E-02                                                                | 1.65E-02 | 1.79E-02 | 2.21E-02 | 2.69E-02 | 2.73E-02 | 3.84E-02 | 4.49E-02 | 0.00E+00                         | 3.79E-03          | 1.89E-02         | 4.24E-03          | 0.00E+00                |
| New Hampshire | Sullivan County      | 33019 | R                    | 1.37E-02                                                                | 1.42E-02 | 1.49E-02 | 1.61E-02 | 2.23E-02 | 2.48E-02 | 3.15E-02 | 3.16E-02 | 1.15E-11                         | 7.84E-03          | 7.87E-03         | 6.59E-03          | 0.00E+00                |
| New Jersey    | Statewide            | 34000 | -                    | 1.42E-02                                                                | 2.13E-02 | 3.31E-02 | 5.05E-02 | 6.60E-02 | 8.45E-02 | 1.30E-01 | 1.61E-01 | 6.29E-06                         | 6.17E-04          | 5.32E-02         | 1.22E-02          | 0.00E+00                |
| New Jersey    | State Urban Counties | 34000 | U                    | 1.42E-02                                                                | 2.13E-02 | 3.31E-02 | 5.05E-02 | 6.60E-02 | 8.45E-02 | 1.30E-01 | 1.61E-01 | 6.29E-06                         | 6.17E-04          | 5.32E-02         | 1.22E-02          | 0.00E+00                |
| New Jersey    | Atlantic County      | 34001 | U                    | 1.49E-02                                                                | 1.86E-02 | 2.54E-02 | 3.02E-02 | 3.14E-02 | 3.75E-02 | 4.87E-02 | 6.65E-02 | 1.19E-06                         | 8.30E-04          | 2.37E-02         | 6.90E-03          | 0.00E+00                |
| New Jersey    | Bergen County        | 34003 | U                    | 0.00E+00                                                                | 0.00E+00 | 4.49E-02 | 6.17E-02 | 8.05E-02 | 8.70E-02 | 1.13E-01 | 1.35E-01 | 6.42E-07                         | 2.25E-04          | 6.47E-02         | 1.55E-02          | 0.00E+00                |
| New Jersey    | Burlington County    | 34005 | U                    | 2.76E-02                                                                | 3.01E-02 | 3.58E-02 | 4.38E-02 | 4.57E-02 | 5.30E-02 | 6.75E-02 | 7.45E-02 | 3.61E-06                         | 2.53E-03          | 3.39E-02         | 9.30E-03          | 0.00E+00                |
| New Jersey    | Camden County        | 34007 | U                    | 4.25E-02                                                                | 4.73E-02 | 5.67E-02 | 7.31E-02 | 7.23E-02 | 9.10E-02 | 1.11E-01 | 1.22E-01 | 1.53E-05                         | 9.89E-04          | 5.75E-02         | 1.38E-02          | 0.00E+00                |
| New Jersey    | Cape May County      | 34009 | U                    | 5.39E-03                                                                | 1.23E-02 | 1.52E-02 | 2.02E-02 | 2.22E-02 | 2.52E-02 | 3.25E-02 | 3.94E-02 | 3.53E-07                         | 4.22E-04          | 1.17E-02         | 1.01E-02          | 0.00E+00                |
| New Jersey    | Cumberland County    | 34011 | U                    | 1.22E-02                                                                | 1.36E-02 | 1.85E-02 | 3.29E-02 | 2.98E-02 | 4.64E-02 | 5.73E-02 | 6.16E-02 | 9.16E-05                         | 2.19E-03          | 2.27E-02         | 4.86E-03          | 0.00E+00                |
| New Jersey    | Essex County         | 34013 | U                    | 5.17E-02                                                                | 6.09E-02 | 7.89E-02 | 9.95E-02 | 1.02E-01 | 1.27E-01 | 1.53E-01 | 1.68E-01 | 3.25E-06                         | 1.73E-04          | 8.13E-02         | 2.09E-02          | 0.00E+00                |
| New Jersey    | Gloucester County    | 34015 | U                    | 2.33E-02                                                                | 2.72E-02 | 3.50E-02 | 4.44E-02 | 4.61E-02 | 5.50E-02 | 6.37E-02 | 7.78E-02 | 8.48E-06                         | 7.96E-04          | 3.38E-02         | 1.16E-02          | 0.00E+00                |
| New Jersey    | Hudson County        | 34017 | U                    | 9.60E-02                                                                | 1.12E-01 | 1.30E-01 | 1.58E-01 | 1.75E-01 | 1.99E-01 | 2.34E-01 | 2.50E-01 | 3.66E-06                         | 3.25E-04          | 1.43E-01         | 3.18E-02          | 0.00E+00                |
| New Jersey    | Hunterdon County     | 34019 | U                    | 7.32E-04                                                                | 1.49E-02 | 1.78E-02 | 1.96E-02 | 2.57E-02 | 2.27E-02 | 4.04E-02 | 4.35E-02 | 1.43E-07                         | 2.48E-04          | 2.18E-02         | 3.64E-03          | 0.00E+00                |
| New Jersey    | Mercer County        | 34021 | U                    | 3.85E-02                                                                | 4.28E-02 | 5.73E-02 | 7.12E-02 | 7.67E-02 | 1.05E-01 | 1.26E-01 | 1.38E-01 | 1.19E-07                         | 2.79E-04          | 6.84E-02         | 8.05E-03          | 0.00E+00                |
| New Jersey    | Middlesex County     | 34023 | U                    | 3.19E-02                                                                | 3.46E-02 | 3.86E-02 | 4.48E-02 | 4.73E-02 | 5.23E-02 | 6.81E-02 | 7.28E-02 | 2.28E-06                         | 1.99E-04          | 3.92E-02         | 7.90E-03          | 0.00E+00                |
| New Jersey    | Monmouth County      | 34025 | U                    | 2.15E-02                                                                | 2.44E-02 | 2.93E-02 | 3.44E-02 | 3.60E-02 | 4.04E-02 | 4.70E-02 | 5.24E-02 | 6.14E-07                         | 5.03E-04          | 2.92E-02         | 6.27E-03          | 0.00E+00                |
| New Jersey    | Morris County        | 34027 | U                    | 1.99E-02                                                                | 2.30E-02 | 2.78E-02 | 3.27E-02 | 3.35E-02 | 3.94E-02 | 4.76E-02 | 5.83E-02 | 3.94E-07                         | 1.47E-04          | 2.75E-02         | 5.87E-03          | 0.00E+00                |
| New Jersey    | Ocean County         | 34029 | U                    | 1.44E-02                                                                | 1.93E-02 | 2.36E-02 | 2.76E-02 | 2.94E-02 | 3.20E-02 | 3.74E-02 | 4.31E-02 | 1.10E-07                         | 2.54E-03          | 2.31E-02         | 3.78E-03          | 0.00E+00                |
| New Jersey    | Passaic County       | 34031 | U                    | 1.52E-02                                                                | 3.30E-02 | 4.46E-02 | 6.40E-02 | 6.78E-02 | 8.45E-02 | 1.01E-01 | 1.05E-01 | 6.73E-07                         | 3.14E-04          | 5.77E-02         | 9.74E-03          | 0.00E+00                |
| New Jersey    | Salem County         | 34033 | U                    | 1.47E-02                                                                | 1.58E-02 | 1.84E-02 | 2.76E-02 | 2.99E-02 | 3.71E-02 | 5.01E-02 | 5.77E-02 | 1.18E-04                         | 6.45E-04          | 2.38E-02         | 5.27E-03          | 0.00E+00                |
| New Jersey    | Somerset County      | 34035 | U                    | 2.09E-02                                                                | 2.24E-02 | 2.50E-02 | 3.11E-02 | 3.49E-02 | 4.10E-02 | 5.74E-02 | 6.22E-02 | 5.35E-07                         | 1.12E-04          | 2.92E-02         | 5.58E-03          | 0.00E+00                |
| New Jersey    | Sussex County        | 34037 | U                    | 1.09E-02                                                                | 1.13E-02 | 1.33E-02 | 1.66E-02 | 1.77E-02 | 2.12E-02 | 2.47E-02 | 3.11E-02 | 6.57E-08                         | 2.40E-04          | 1.47E-02         | 2.78E-03          | 0.00E+00                |
| New Jersey    | Union County         | 34039 | U                    | 4.46E-02                                                                | 4.90E-02 | 5.43E-02 | 6.83E-02 | 7.48E-02 | 9.21E-02 | 1.19E-01 | 1.32E-01 | 1.87E-05                         | 1.87E-04          | 5.74E-02         | 1.72E-02          | 0.00E+00                |
| New Jersey    | Warren County        | 34041 | U                    | 1.29E-02                                                                | 1.39E-02 | 1.54E-02 | 2.22E-02 | 2.85E-02 | 3.91E-02 | 4.24E-02 | 4.81E-02 | 3.45E-07                         | 4.21E-04          | 2.20E-02         | 6.04E-03          | 0.00E+00                |
| New Mexico    | Statewide            | 35000 | -                    | 1.22E-03                                                                | 3.42E-03 | 1.27E-02 | 3.57E-02 | 7.49E-02 | 1.21E-01 | 1.81E-01 | 2.10E-01 | 5.79E-09                         | 9.38E-03          | 5.62E-02         | 9.30E-03          | 0.00E+00                |
| New Mexico    | State Urban Counties | 35000 | U                    | 2.57E-03                                                                | 5.11E-03 | 1.88E-02 | 7.13E-02 | 8.75E-02 | 1.44E-01 | 1.94E-01 | 2.12E-01 | 7.22E-09                         | 7.62E-03          | 6.82E-02         | 1.17E-02          | 0.00E+00                |
| New Mexico    | State Rural Counties | 35000 | R                    | 5.82E-04                                                                | 8.40E-04 | 4.93E-03 | 1.37E-02 | 2.91E-02 | 3.31E-02 | 6.67E-02 | 8.95E-02 | 6.04E-10                         | 1.58E-02          | 1.27E-02         | 6.01E-04          | 0.00E+00                |
| New Mexico    | Bernalillo County    | 35001 | U                    | 5.95E-02                                                                | 9.01E-02 | 1.23E-01 | 1.60E-01 | 1.53E-01 | 1.93E-01 | 2.13E-01 | 2.29E-01 | 0.00E+00                         | 2.98E-03          | 1.28E-01         | 2.15E-02          | 0.00E+00                |
| New Mexico    | Catron County        | 35003 | R                    | 6.45E-03                                                                | 6.68E-03 | 7.37E-03 | 8.51E-03 | 9.17E-03 | 9.66E-03 | 1.04E-02 | 1.06E-02 | 0.00E+00                         | 9.01E-03          | 1.63E-04         | 3.59E-06          | 0.00E+00                |
| New Mexico    | Chaves County        | 35005 | U                    | 5.06E-03                                                                | 5.14E-03 | 1.32E-02 | 2.00E-02 | 2.24E-02 | 3.09E-02 | 3.74E-02 | 4.11E-02 | 3.33E-10                         | 7.15E-04          | 1.65E-02         | 5.26E-03          | 0.00E+00                |
| New Mexico    | Cibola County        | 35006 | R                    | 4.92E-03                                                                | 6.41E-03 | 8.89E-03 | 1.17E-02 | 1.61E-02 | 1.87E-02 | 2.76E-02 | 2.78E-02 | 1.60E-11                         | 6.13E-03          | 9.72E-03         | 2.53E-04          | 0.00E+00                |

| State      | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|            |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|            |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| New Mexico | Colfax County        | 35007 | U                    | 3.47E-03                                                                | 4.67E-03 | 8.28E-03 | 1.41E-02 | 1.38E-02 | 1.80E-02 | 1.80E-02 | 1.81E-02 | 0.00E+00                         | 1.30E-02          | 7.51E-04         | 6.76E-05          | 0.00E+00                |
| New Mexico | Curry County         | 35009 | U                    | 2.47E-03                                                                | 2.50E-03 | 8.81E-03 | 1.39E-02 | 1.57E-02 | 1.71E-02 | 2.39E-02 | 2.49E-02 | 0.00E+00                         | 5.21E-06          | 1.26E-02         | 3.11E-03          | 0.00E+00                |
| New Mexico | DeBaca County        | 35011 | R                    | 5.82E-04                                                                | 5.83E-04 | 5.83E-04 | 5.84E-04 | 5.85E-04 | 5.85E-04 | 5.85E-04 | 5.85E-04 | 0.00E+00                         | 5.63E-05          | 4.89E-04         | 3.93E-05          | 0.00E+00                |
| New Mexico | Dona Ana County      | 35013 | U                    | 7.24E-03                                                                | 1.55E-02 | 2.79E-02 | 5.10E-02 | 4.44E-02 | 7.26E-02 | 8.25E-02 | 8.37E-02 | 2.28E-09                         | 1.80E-03          | 3.91E-02         | 3.43E-03          | 0.00E+00                |
| New Mexico | Eddy County          | 35015 | U                    | 3.86E-03                                                                | 3.89E-03 | 8.44E-03 | 1.90E-02 | 1.81E-02 | 2.04E-02 | 3.09E-02 | 3.50E-02 | 4.11E-08                         | 5.49E-04          | 1.35E-02         | 4.04E-03          | 0.00E+00                |
| New Mexico | Grant County         | 35017 | R                    | 1.27E-02                                                                | 1.82E-02 | 2.46E-02 | 2.80E-02 | 8.32E-02 | 1.14E-01 | 1.24E-01 | 1.43E-01 | 0.00E+00                         | 6.15E-02          | 2.15E-02         | 2.14E-04          | 0.00E+00                |
| New Mexico | Guadalupe County     | 35019 | R                    | 6.55E-04                                                                | 6.79E-04 | 7.51E-04 | 7.96E-04 | 8.41E-04 | 8.97E-04 | 1.07E-03 | 1.13E-03 | 0.00E+00                         | 1.29E-04          | 6.87E-04         | 2.50E-05          | 0.00E+00                |
| New Mexico | Harding County       | 35021 | R                    | 2.84E-04                                                                | 2.84E-04 | 2.84E-04 | 2.84E-04 | 2.84E-04 | 2.84E-04 | 2.84E-04 | 2.84E-04 | 0.00E+00                         | 6.70E-05          | 2.01E-04         | 1.60E-05          | 0.00E+00                |
| New Mexico | Hidalgo County       | 35023 | R                    | 3.99E-04                                                                | 4.06E-04 | 4.24E-04 | 4.56E-04 | 5.49E-03 | 5.65E-03 | 8.77E-03 | 9.81E-03 | 0.00E+00                         | 6.16E-04          | 4.81E-03         | 6.69E-05          | 0.00E+00                |
| New Mexico | Lea County           | 35025 | U                    | 9.68E-04                                                                | 1.20E-03 | 4.10E-03 | 1.67E-02 | 2.14E-02 | 3.14E-02 | 3.52E-02 | 3.60E-02 | 1.12E-07                         | 3.95E-06          | 1.78E-02         | 3.67E-03          | 0.00E+00                |
| New Mexico | Lincoln County       | 35027 | R                    | 3.20E-03                                                                | 3.26E-03 | 4.16E-03 | 1.36E-02 | 3.64E-02 | 4.65E-02 | 8.21E-02 | 8.56E-02 | 2.94E-12                         | 3.03E-02          | 5.96E-03         | 1.76E-04          | 0.00E+00                |
| New Mexico | Los Alamos County    | 35028 | R                    | 2.00E-02                                                                | 2.32E-02 | 3.28E-02 | 3.32E-02 | 3.04E-02 | 4.01E-02 | 4.06E-02 | 4.08E-02 | 0.00E+00                         | 1.85E-02          | 9.22E-03         | 2.64E-03          | 0.00E+00                |
| New Mexico | Luna County          | 35029 | U                    | 4.18E-03                                                                | 4.98E-03 | 5.71E-03 | 7.46E-03 | 2.07E-02 | 2.69E-02 | 2.71E-02 | 2.72E-02 | 6.16E-12                         | 5.38E-04          | 1.60E-02         | 4.15E-03          | 0.00E+00                |
| New Mexico | McKinley County      | 35031 | R                    | 2.93E-03                                                                | 3.65E-03 | 4.92E-03 | 1.26E-02 | 2.56E-02 | 1.81E-02 | 5.78E-02 | 7.13E-02 | 1.32E-09                         | 9.74E-03          | 1.54E-02         | 5.04E-04          | 0.00E+00                |
| New Mexico | Mora County          | 35033 | R                    | 4.95E-03                                                                | 5.42E-03 | 6.84E-03 | 9.21E-03 | 1.16E-02 | 1.16E-02 | 1.30E-02 | 1.35E-02 | 0.00E+00                         | 9.30E-03          | 1.90E-03         | 4.06E-04          | 0.00E+00                |
| New Mexico | Otero County         | 35035 | U                    | 6.80E-03                                                                | 8.62E-03 | 1.74E-02 | 3.51E-02 | 7.04E-02 | 7.48E-02 | 9.42E-02 | 1.73E-01 | 5.99E-11                         | 5.30E-02          | 1.49E-02         | 2.49E-03          | 0.00E+00                |
| New Mexico | Quay County          | 35037 | U                    | 6.11E-04                                                                | 6.46E-04 | 7.48E-04 | 8.50E-04 | 4.00E-03 | 2.02E-03 | 4.03E-03 | 4.70E-03 | 0.00E+00                         | 2.47E-07          | 3.37E-03         | 6.32E-04          | 0.00E+00                |
| New Mexico | Rio Arriba County    | 35039 | R                    | 4.04E-03                                                                | 7.64E-03 | 1.23E-02 | 1.85E-02 | 3.67E-02 | 3.72E-02 | 6.63E-02 | 8.74E-02 | 3.24E-12                         | 2.50E-02          | 1.06E-02         | 1.06E-03          | 0.00E+00                |
| New Mexico | Roosevelt County     | 35041 | U                    | 1.60E-03                                                                | 1.93E-03 | 2.92E-03 | 1.95E-02 | 2.46E-02 | 2.97E-02 | 2.98E-02 | 2.99E-02 | 0.00E+00                         | 7.70E-05          | 1.99E-02         | 4.62E-03          | 0.00E+00                |
| New Mexico | Sandoval County      | 35043 | U                    | 6.51E-03                                                                | 9.96E-03 | 4.08E-02 | 8.23E-02 | 6.86E-02 | 9.88E-02 | 1.12E-01 | 1.13E-01 | 0.00E+00                         | 1.66E-02          | 4.30E-02         | 8.98E-03          | 0.00E+00                |
| New Mexico | San Juan County      | 35045 | R                    | 4.06E-03                                                                | 5.88E-03 | 9.66E-03 | 1.94E-02 | 1.94E-02 | 3.69E-02 | 4.18E-02 | 4.41E-02 | 1.27E-09                         | 3.75E-03          | 1.52E-02         | 5.39E-04          | 0.00E+00                |
| New Mexico | San Miguel County    | 35047 | U                    | 5.15E-03                                                                | 7.58E-03 | 1.18E-02 | 1.70E-02 | 5.36E-02 | 6.18E-02 | 7.94E-02 | 9.46E-02 | 0.00E+00                         | 3.35E-02          | 1.63E-02         | 3.85E-03          | 0.00E+00                |
| New Mexico | Santa Fe County      | 35049 | U                    | 2.00E-02                                                                | 2.34E-02 | 6.82E-02 | 9.90E-02 | 8.62E-02 | 1.42E-01 | 1.57E-01 | 1.98E-01 | 0.00E+00                         | 2.33E-02          | 5.16E-02         | 1.13E-02          | 0.00E+00                |
| New Mexico | Sierra County        | 35051 | U                    | 3.70E-03                                                                | 3.80E-03 | 4.11E-03 | 1.11E-02 | 1.47E-02 | 1.88E-02 | 2.07E-02 | 2.13E-02 | 6.07E-13                         | 3.08E-03          | 8.12E-03         | 3.54E-03          | 0.00E+00                |
| New Mexico | Socorro County       | 35053 | U                    | 1.41E-03                                                                | 1.51E-03 | 1.81E-03 | 2.79E-03 | 5.97E-03 | 7.94E-03 | 1.23E-02 | 1.37E-02 | 0.00E+00                         | 3.12E-03          | 2.67E-03         | 1.89E-04          | 0.00E+00                |
| New Mexico | Taos County          | 35055 | R                    | 5.49E-03                                                                | 1.10E-02 | 1.87E-02 | 2.81E-02 | 4.49E-02 | 6.15E-02 | 8.15E-02 | 9.69E-02 | 0.00E+00                         | 3.12E-02          | 1.33E-02         | 4.42E-04          | 0.00E+00                |
| New Mexico | Torrance County      | 35057 | R                    | 1.48E-03                                                                | 1.68E-03 | 2.31E-03 | 3.35E-03 | 4.52E-03 | 4.16E-03 | 4.65E-03 | 4.81E-03 | 0.00E+00                         | 8.58E-04          | 3.19E-03         | 4.65E-04          | 0.00E+00                |
| New Mexico | Union County         | 35059 | R                    | 8.03E-04                                                                | 8.28E-04 | 9.04E-04 | 1.03E-03 | 8.83E-04 | 1.15E-03 | 1.23E-03 | 1.26E-03 | 0.00E+00                         | 3.92E-04          | 4.30E-04         | 6.17E-05          | 0.00E+00                |
| New Mexico | Valencia County      | 35061 | U                    | 0.00E+00                                                                | 8.24E-04 | 1.49E-02 | 2.60E-02 | 2.99E-02 | 2.87E-02 | 3.75E-02 | 4.22E-02 | 0.00E+00                         | 2.10E-03          | 2.49E-02         | 2.90E-03          | 0.00E+00                |
| New York   | Statewide            | 36000 | -                    | 8.42E-03                                                                | 1.52E-02 | 3.44E-02 | 8.10E-02 | 1.04E-01 | 1.54E-01 | 2.02E-01 | 2.45E-01 | 2.25E-04                         | 1.28E-03          | 7.49E-02         | 2.75E-02          | 0.00E+00                |
| New York   | State Urban Counties | 36000 | U                    | 1.61E-02                                                                | 2.43E-02 | 4.38E-02 | 9.94E-02 | 1.14E-01 | 1.59E-01 | 2.09E-01 | 2.51E-01 | 2.50E-04                         | 8.60E-04          | 8.24E-02         | 3.00E-02          | 0.00E+00                |
| New York   | State Rural Counties | 36000 | R                    | 4.68E-03                                                                | 5.74E-03 | 7.39E-03 | 1.34E-02 | 1.94E-02 | 2.75E-02 | 4.30E-02 | 5.89E-02 | 3.47E-06                         | 4.94E-03          | 9.17E-03         | 5.25E-03          | 0.00E+00                |
| New York   | Albany County        | 36001 | U                    | 2.20E-02                                                                | 2.69E-02 | 3.80E-02 | 4.70E-02 | 5.63E-02 | 7.18E-02 | 1.04E-01 | 1.26E-01 | 4.37E-05                         | 1.63E-03          | 3.69E-02         | 1.77E-02          | 0.00E+00                |
| New York   | Allegany County      | 36003 | R                    | 2.43E-03                                                                | 4.07E-03 | 4.60E-03 | 6.31E-03 | 7.26E-03 | 6.92E-03 | 1.25E-02 | 1.42E-02 | 4.93E-07                         | 4.08E-03          | 2.65E-03         | 5.29E-04          | 0.00E+00                |
| New York   | Bronx County         | 36005 | U                    | 9.90E-02                                                                | 1.17E-01 | 1.53E-01 | 1.74E-01 | 1.89E-01 | 1.93E-01 | 2.44E-01 | 2.98E-01 | 6.71E-07                         | 1.61E-04          | 1.45E-01         | 4.31E-02          | 0.00E+00                |
| New York   | Broome County        | 36007 | U                    | 1.74E-02                                                                | 1.89E-02 | 2.75E-02 | 4.45E-02 | 4.84E-02 | 6.96E-02 | 8.35E-02 | 8.62E-02 | 1.28E-09                         | 3.56E-03          | 3.42E-02         | 1.06E-02          | 0.00E+00                |
| New York   | Cattaraugus County   | 36009 | R                    | 4.65E-03                                                                | 4.69E-03 | 5.29E-03 | 7.08E-03 | 1.00E-02 | 1.36E-02 | 2.39E-02 | 3.32E-02 | 2.72E-05                         | 4.41E-03          | 4.63E-03         | 9.40E-04          | 0.00E+00                |
| New York   | Cayuga County        | 36011 | U                    | 5.04E-03                                                                | 5.58E-03 | 7.52E-03 | 9.22E-03 | 1.44E-02 | 2.03E-02 | 2.81E-02 | 4.13E-02 | 6.49E-07                         | 1.73E-03          | 8.39E-03         | 4.28E-03          | 0.00E+00                |
| New York   | Chautauqua County    | 36013 | R                    | 7.09E-03                                                                | 7.51E-03 | 8.37E-03 | 1.36E-02 | 1.37E-02 | 1.82E-02 | 2.35E-02 | 2.49E-02 | 1.16E-05                         | 2.85E-03          | 7.07E-03         | 3.72E-03          | 0.00E+00                |
| New York   | Chemung County       | 36015 | R                    | 1.55E-02                                                                | 1.62E-02 | 2.50E-02 | 3.25E-02 | 3.24E-02 | 3.95E-02 | 5.51E-02 | 5.91E-02 | 6.10E-11                         | 5.12E-03          | 2.44E-02         | 2.85E-03          | 0.00E+00                |
| New York   | Chenango County      | 36017 | R                    | 6.15E-03                                                                | 6.33E-03 | 6.42E-03 | 8.24E-03 | 1.50E-02 | 9.57E-03 | 6.02E-02 | 6.03E-02 | 6.67E-11                         | 8.55E-03          | 5.61E-03         | 8.72E-04          | 0.00E+00                |
| New York   | Clinton County       | 36019 | R                    | 7.44E-03                                                                | 7.68E-03 | 9.69E-03 | 1.59E-02 | 1.61E-02 | 2.24E-02 | 2.70E-02 | 3.12E-02 | 0.00E+00                         | 3.72E-03          | 9.14E-03         | 3.22E-03          | 0.00E+00                |
| New York   | Columbia County      | 36021 | R                    | 9.83E-03                                                                | 1.02E-02 | 1.07E-02 | 1.15E-02 | 1.49E-02 | 1.41E-02 | 2.22E-02 | 3.21E-02 | 4.31E-07                         | 2.87E-03          | 9.48E-03         | 2.58E-03          | 0.00E+00                |
| New York   | Cortland County      | 36023 | R                    | 6.32E-03                                                                | 6.65E-03 | 7.14E-03 | 1.12E-02 | 1.29E-02 | 1.69E-02 | 2.30E-02 | 2.83E-02 | 2.10E-09                         | 3.25E-03          | 8.29E-03         | 1.31E-03          | 0.00E+00                |
| New York   | Delaware County      | 36025 | R                    | 5.62E-03                                                                | 5.80E-03 | 6.21E-03 | 7.71E-03 | 1.09E-02 | 9.86E-03 | 1.40E-02 | 3.60E-02 | 1.44E-09                         | 7.26E-03          | 2.70E-03         | 9.28E-04          | 0.00E+00                |
| New York   | Dutchess County      | 36027 | U                    | 2.02E-02                                                                | 2.28E-02 | 2.63E-02 | 3.56E-02 | 3.81E-02 | 4.50E-02 | 5.28E-02 | 8.12E-02 | 1.21E-08                         | 3.30E-03          | 2.81E-02         | 6.72E-03          | 0.00E+00                |
| New York   | Erie County          | 36029 | U                    | 2.03E-02                                                                | 2.47E-02 | 3.92E-02 | 5.51E-02 | 5.89E-02 | 7.93E-02 | 9.56E-02 | 1.09E-01 | 4.02E-03                         | 8.23E-04          | 3.74E-02         | 1.67E-02          | 0.00E+00                |
| New York   | Essex County         | 36031 | R                    | 4.26E-03                                                                | 4.62E-03 | 5.17E-03 | 6.69E-03 | 8.30E-03 | 8.59E-03 | 1.33E-02 | 1.41E-02 | 0.00E+00                         | 5.02E-03          | 2.33E-03         | 9.57E-04          | 0.00E+00                |
| New York   | Franklin County      | 36033 | R                    | 2.83E-03                                                                | 4.41E-03 | 5.02E-03 | 6.15E-03 | 1.01E-02 | 1.33E-02 | 1.54E-02 | 1.59E-02 | 0.00E+00                         | 6.79E-03          | 2.57E-03         | 7.60E-04          | 0.00E+00                |
| New York   | Fulton County        | 36035 | R                    | 7.72E-03                                                                | 8.06E-03 | 8.61E-03 | 1.26E-02 | 2.02E-02 | 3.08E-02 | 4.28E-02 | 5.07E-02 | 7.32E-08                         | 6.27E-03          | 1.14E-02         | 2.48E-03          | 0.00E+00                |
| New York   | Genesee County       | 36037 | U                    | 8.61E-03                                                                | 9.55E-03 | 1.08E-02 | 1.97E-02 | 1.55E-02 | 2.30E-02 | 2.43E-02 | 2.82E-02 | 2.78E-05                         | 2.31E-03          | 7.81E-03         | 5.39E-03          | 0.00E+00                |
| New York   | Greene County        | 36039 | R                    | 9.78E-03                                                                | 1.05E-02 | 1.19E-02 | 1.47E-02 | 1.44E-02 | 1.59E-02 | 1.72E-02 | 2.04E-02 | 2.42E-07                         | 3.65E-03          | 6.80E-03         | 3.95E-03          | 0.00E+00                |

| State          | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| New York       | Hamilton County      | 36041 | R                    | 2.28E-03                                                                | 2.34E-03 | 2.60E-03 | 3.75E-03 | 3.60E-03 | 4.43E-03 | 4.63E-03 | 4.73E-03 | 3.64E-09                         | 2.38E-03          | 6.74E-04         | 5.40E-04          | 0.00E+00                |
| New York       | Herkimer County      | 36043 | U                    | 5.16E-03                                                                | 6.32E-03 | 7.00E-03 | 1.30E-02 | 1.53E-02 | 2.54E-02 | 2.91E-02 | 3.63E-02 | 6.73E-10                         | 3.49E-03          | 7.45E-03         | 4.32E-03          | 0.00E+00                |
| New York       | Jefferson County     | 36045 | R                    | 5.21E-03                                                                | 5.44E-03 | 6.42E-03 | 1.07E-02 | 1.08E-02 | 1.54E-02 | 1.92E-02 | 2.36E-02 | 7.81E-07                         | 3.29E-03          | 4.76E-03         | 2.79E-03          | 0.00E+00                |
| New York       | Kings County         | 36047 | U                    | 1.05E-01                                                                | 1.19E-01 | 1.38E-01 | 1.50E-01 | 1.61E-01 | 1.64E-01 | 1.90E-01 | 2.20E-01 | 1.72E-06                         | 2.24E-04          | 1.26E-01         | 3.45E-02          | 0.00E+00                |
| New York       | Lewis County         | 36049 | R                    | 5.55E-03                                                                | 5.66E-03 | 6.26E-03 | 9.40E-03 | 7.89E-03 | 9.71E-03 | 1.17E-02 | 1.32E-02 | 6.50E-08                         | 4.90E-03          | 1.75E-03         | 1.23E-03          | 0.00E+00                |
| New York       | Livingston County    | 36051 | U                    | 6.36E-03                                                                | 6.98E-03 | 8.48E-03 | 9.50E-03 | 1.34E-02 | 2.06E-02 | 2.83E-02 | 3.55E-02 | 1.10E-06                         | 3.18E-03          | 6.74E-03         | 3.48E-03          | 0.00E+00                |
| New York       | Madison County       | 36053 | U                    | 6.27E-03                                                                | 6.35E-03 | 8.42E-03 | 1.61E-02 | 1.58E-02 | 2.31E-02 | 2.74E-02 | 3.06E-02 | 3.07E-08                         | 3.80E-03          | 8.55E-03         | 3.46E-03          | 0.00E+00                |
| New York       | Monroe County        | 36055 | U                    | 2.80E-02                                                                | 4.02E-02 | 4.88E-02 | 6.52E-02 | 6.45E-02 | 9.51E-02 | 1.15E-01 | 1.30E-01 | 9.07E-06                         | 1.31E-03          | 4.18E-02         | 2.14E-02          | 0.00E+00                |
| New York       | Montgomery County    | 36057 | U                    | 7.09E-03                                                                | 7.21E-03 | 1.07E-02 | 2.34E-02 | 2.11E-02 | 3.47E-02 | 4.94E-02 | 5.71E-02 | 1.64E-07                         | 3.55E-03          | 1.21E-02         | 5.52E-03          | 0.00E+00                |
| New York       | Nassau County        | 36059 | U                    | 4.81E-02                                                                | 5.24E-02 | 5.85E-02 | 6.68E-02 | 7.17E-02 | 8.21E-02 | 9.75E-02 | 1.06E-01 | 2.05E-07                         | 1.05E-04          | 5.28E-02         | 1.87E-02          | 0.00E+00                |
| New York       | New York County      | 36061 | U                    | 1.66E-01                                                                | 1.87E-01 | 2.20E-01 | 2.43E-01 | 2.99E-01 | 2.99E-01 | 4.24E-01 | 5.43E-01 | 1.37E-06                         | 6.93E-04          | 2.12E-01         | 8.58E-02          | 0.00E+00                |
| New York       | Niagara County       | 36063 | U                    | 1.38E-02                                                                | 1.52E-02 | 2.21E-02 | 3.22E-02 | 3.42E-02 | 4.82E-02 | 6.23E-02 | 7.48E-02 | 2.65E-04                         | 7.03E-04          | 2.18E-02         | 1.14E-02          | 0.00E+00                |
| New York       | Oneida County        | 36065 | U                    | 1.05E-02                                                                | 1.20E-02 | 1.55E-02 | 2.56E-02 | 2.80E-02 | 4.17E-02 | 5.63E-02 | 6.01E-02 | 5.64E-09                         | 2.22E-03          | 1.91E-02         | 6.72E-03          | 0.00E+00                |
| New York       | Onondaga County      | 36067 | U                    | 1.79E-02                                                                | 2.21E-02 | 3.15E-02 | 4.70E-02 | 4.98E-02 | 6.75E-02 | 8.32E-02 | 8.52E-02 | 2.74E-07                         | 1.13E-03          | 3.26E-02         | 1.61E-02          | 0.00E+00                |
| New York       | Ontario County       | 36069 | U                    | 8.66E-03                                                                | 8.99E-03 | 1.06E-02 | 1.33E-02 | 1.61E-02 | 2.33E-02 | 2.71E-02 | 3.05E-02 | 1.72E-05                         | 1.70E-03          | 9.22E-03         | 5.19E-03          | 0.00E+00                |
| New York       | Orange County        | 36071 | U                    | 1.51E-02                                                                | 1.65E-02 | 2.03E-02 | 2.84E-02 | 2.80E-02 | 3.48E-02 | 3.98E-02 | 4.80E-02 | 4.27E-08                         | 3.28E-03          | 1.99E-02         | 4.78E-03          | 0.00E+00                |
| New York       | Orleans County       | 36073 | U                    | 9.52E-03                                                                | 9.94E-03 | 1.09E-02 | 1.24E-02 | 1.89E-02 | 2.92E-02 | 4.70E-02 | 4.78E-02 | 8.87E-06                         | 2.02E-03          | 8.77E-03         | 8.07E-03          | 0.00E+00                |
| New York       | Oswego County        | 36075 | U                    | 1.07E-02                                                                | 1.08E-02 | 1.19E-02 | 1.47E-02 | 2.06E-02 | 3.58E-02 | 4.18E-02 | 4.34E-02 | 9.80E-06                         | 3.96E-03          | 9.74E-03         | 6.92E-03          | 0.00E+00                |
| New York       | Otsego County        | 36077 | R                    | 5.28E-03                                                                | 5.78E-03 | 7.13E-03 | 8.91E-03 | 1.47E-02 | 2.73E-02 | 3.43E-02 | 3.57E-02 | 4.91E-08                         | 6.09E-03          | 7.72E-03         | 8.85E-04          | 0.00E+00                |
| New York       | Putnam County        | 36079 | U                    | 2.00E-02                                                                | 2.25E-02 | 2.57E-02 | 3.00E-02 | 3.36E-02 | 4.15E-02 | 4.85E-02 | 5.20E-02 | 2.60E-08                         | 3.65E-03          | 2.41E-02         | 5.85E-03          | 0.00E+00                |
| New York       | Queens County        | 36081 | U                    | 1.05E-01                                                                | 1.15E-01 | 1.29E-01 | 1.55E-01 | 1.70E-01 | 1.81E-01 | 2.18E-01 | 2.46E-01 | 8.95E-07                         | 1.72E-04          | 1.17E-01         | 5.28E-02          | 0.00E+00                |
| New York       | Rensselaer County    | 36083 | U                    | 1.44E-02                                                                | 1.56E-02 | 2.12E-02 | 3.37E-02 | 3.53E-02 | 4.74E-02 | 6.05E-02 | 6.94E-02 | 3.90E-05                         | 2.32E-03          | 2.47E-02         | 8.24E-03          | 0.00E+00                |
| New York       | Richmond County      | 36085 | U                    | 4.83E-02                                                                | 5.59E-02 | 7.01E-02 | 8.24E-02 | 8.15E-02 | 9.06E-02 | 1.05E-01 | 1.07E-01 | 6.70E-06                         | 9.46E-05          | 6.25E-02         | 1.89E-02          | 0.00E+00                |
| New York       | Rockland County      | 36087 | U                    | 2.60E-02                                                                | 3.27E-02 | 3.73E-02 | 4.13E-02 | 4.27E-02 | 4.89E-02 | 5.38E-02 | 6.16E-02 | 6.79E-08                         | 8.24E-04          | 3.23E-02         | 9.60E-03          | 0.00E+00                |
| New York       | St. Lawrence County  | 36089 | R                    | 3.89E-03                                                                | 4.19E-03 | 5.94E-03 | 1.09E-02 | 1.49E-02 | 1.93E-02 | 3.21E-02 | 5.51E-02 | 1.27E-08                         | 9.25E-03          | 4.45E-03         | 1.24E-03          | 0.00E+00                |
| New York       | Saratoga County      | 36091 | U                    | 1.27E-02                                                                | 1.47E-02 | 1.89E-02 | 2.81E-02 | 3.36E-02 | 3.58E-02 | 7.14E-02 | 7.64E-02 | 4.26E-06                         | 4.19E-03          | 1.98E-02         | 9.69E-03          | 0.00E+00                |
| New York       | Schenectady County   | 36093 | U                    | 3.07E-02                                                                | 3.51E-02 | 4.95E-02 | 6.11E-02 | 6.13E-02 | 7.69E-02 | 9.29E-02 | 1.05E-01 | 1.62E-06                         | 2.26E-03          | 4.64E-02         | 1.26E-02          | 0.00E+00                |
| New York       | Schoharie County     | 36095 | U                    | 6.24E-03                                                                | 6.36E-03 | 6.51E-03 | 7.22E-03 | 8.09E-03 | 8.70E-03 | 1.03E-02 | 1.07E-02 | 2.97E-07                         | 3.03E-03          | 3.89E-03         | 1.17E-03          | 0.00E+00                |
| New York       | Schuyler County      | 36097 | R                    | 7.25E-03                                                                | 7.37E-03 | 7.71E-03 | 7.93E-03 | 8.47E-03 | 8.91E-03 | 9.65E-03 | 9.89E-03 | 8.71E-09                         | 3.18E-03          | 4.46E-03         | 8.41E-04          | 0.00E+00                |
| New York       | Seneca County        | 36099 | R                    | 0.00E+00                                                                | 5.46E-04 | 5.49E-03 | 7.47E-03 | 1.03E-02 | 1.31E-02 | 1.55E-02 | 1.63E-02 | 3.10E-06                         | 1.55E-03          | 6.31E-03         | 2.41E-03          | 0.00E+00                |
| New York       | Steuben County       | 36101 | R                    | 6.20E-03                                                                | 6.54E-03 | 6.81E-03 | 8.37E-03 | 1.51E-02 | 2.26E-02 | 3.33E-02 | 3.50E-02 | 2.50E-06                         | 6.84E-03          | 6.77E-03         | 1.48E-03          | 0.00E+00                |
| New York       | Suffolk County       | 36103 | U                    | 1.77E-02                                                                | 2.21E-02 | 2.68E-02 | 3.17E-02 | 3.30E-02 | 3.82E-02 | 4.57E-02 | 5.06E-02 | 2.92E-08                         | 3.36E-04          | 2.36E-02         | 9.01E-03          | 0.00E+00                |
| New York       | Sullivan County      | 36105 | R                    | 2.40E-02                                                                | 2.48E-02 | 2.60E-02 | 2.85E-02 | 3.53E-02 | 3.92E-02 | 4.60E-02 | 5.52E-02 | 4.22E-09                         | 5.76E-03          | 6.84E-03         | 2.27E-02          | 0.00E+00                |
| New York       | Tioga County         | 36107 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.10E-02 | 1.40E-02 | 1.95E-02 | 2.05E-02 | 3.69E-02 | 3.78E-02 | 4.69E-09                         | 5.41E-03          | 1.10E-02         | 3.11E-03          | 0.00E+00                |
| New York       | Tompkins County      | 36109 | R                    | 1.23E-02                                                                | 1.47E-02 | 2.15E-02 | 3.31E-02 | 4.04E-02 | 6.17E-02 | 7.83E-02 | 8.21E-02 | 3.88E-07                         | 8.45E-03          | 2.77E-02         | 4.21E-03          | 0.00E+00                |
| New York       | Ulster County        | 36111 | R                    | 2.95E-02                                                                | 3.09E-02 | 3.53E-02 | 4.20E-02 | 4.67E-02 | 5.81E-02 | 6.67E-02 | 7.33E-02 | 3.10E-08                         | 4.26E-03          | 1.57E-02         | 2.68E-02          | 0.00E+00                |
| New York       | Warren County        | 36113 | R                    | 1.03E-02                                                                | 1.07E-02 | 1.41E-02 | 1.79E-02 | 2.17E-02 | 2.67E-02 | 3.28E-02 | 3.60E-02 | 8.92E-08                         | 3.88E-03          | 1.24E-02         | 5.37E-03          | 0.00E+00                |
| New York       | Washington County    | 36115 | R                    | 7.19E-03                                                                | 7.25E-03 | 8.43E-03 | 9.04E-03 | 1.19E-02 | 1.10E-02 | 1.83E-02 | 2.67E-02 | 2.85E-07                         | 2.78E-03          | 7.38E-03         | 1.73E-03          | 0.00E+00                |
| New York       | Wayne County         | 36117 | U                    | 1.16E-02                                                                | 1.25E-02 | 1.59E-02 | 2.15E-02 | 2.30E-02 | 2.99E-02 | 4.21E-02 | 4.37E-02 | 5.29E-04                         | 2.33E-03          | 1.13E-02         | 8.77E-03          | 0.00E+00                |
| New York       | Westchester County   | 36119 | U                    | 3.24E-02                                                                | 3.79E-02 | 5.07E-02 | 6.35E-02 | 6.79E-02 | 8.47E-02 | 1.04E-01 | 1.14E-01 | 1.82E-07                         | 7.87E-04          | 5.17E-02         | 1.55E-02          | 0.00E+00                |
| New York       | Wyoming County       | 36121 | R                    | 5.56E-03                                                                | 5.63E-03 | 5.80E-03 | 6.44E-03 | 6.81E-03 | 7.50E-03 | 8.31E-03 | 8.84E-03 | 4.26E-05                         | 1.64E-03          | 3.29E-03         | 1.84E-03          | 0.00E+00                |
| New York       | Yates County         | 36123 | R                    | 6.28E-03                                                                | 6.37E-03 | 6.67E-03 | 8.22E-03 | 9.60E-03 | 1.35E-02 | 1.53E-02 | 1.59E-02 | 1.11E-06                         | 2.67E-03          | 4.19E-03         | 2.75E-03          | 0.00E+00                |
| North Carolina | Statewide            | 37000 | -                    | 8.75E-03                                                                | 1.16E-02 | 1.71E-02 | 3.81E-02 | 4.28E-02 | 6.66E-02 | 9.01E-02 | 1.05E-01 | 1.54E-05                         | 4.99E-03          | 3.00E-02         | 7.84E-03          | 0.00E+00                |
| North Carolina | State Urban Counties | 37000 | U                    | 1.34E-02                                                                | 1.65E-02 | 3.37E-02 | 5.74E-02 | 5.46E-02 | 7.84E-02 | 1.01E-01 | 1.12E-01 | 1.18E-05                         | 3.71E-03          | 3.93E-02         | 1.15E-02          | 0.00E+00                |
| North Carolina | State Rural Counties | 37000 | R                    | 7.30E-03                                                                | 8.85E-03 | 1.28E-02 | 1.87E-02 | 2.61E-02 | 3.48E-02 | 5.21E-02 | 6.75E-02 | 2.06E-05                         | 6.82E-03          | 1.66E-02         | 2.56E-03          | 0.00E+00                |
| North Carolina | Alamance County      | 37001 | U                    | 2.79E-02                                                                | 2.85E-02 | 3.60E-02 | 5.34E-02 | 5.16E-02 | 6.50E-02 | 8.05E-02 | 9.28E-02 | 4.29E-09                         | 3.12E-03          | 4.19E-02         | 6.62E-03          | 0.00E+00                |
| North Carolina | Alexander County     | 37003 | U                    | 1.28E-02                                                                | 1.29E-02 | 1.33E-02 | 1.48E-02 | 1.60E-02 | 1.60E-02 | 1.93E-02 | 2.13E-02 | 6.80E-08                         | 3.46E-03          | 1.07E-02         | 1.89E-03          | 0.00E+00                |
| North Carolina | Alleghany County     | 37005 | R                    | 8.68E-03                                                                | 8.77E-03 | 9.05E-03 | 9.52E-03 | 1.15E-02 | 1.26E-02 | 1.45E-02 | 1.51E-02 | 7.45E-12                         | 5.54E-03          | 5.32E-03         | 6.56E-04          | 0.00E+00                |
| North Carolina | Anson County         | 37007 | R                    | 8.89E-03                                                                | 9.31E-03 | 1.02E-02 | 1.22E-02 | 2.01E-02 | 2.17E-02 | 3.06E-02 | 3.38E-02 | 3.03E-06                         | 1.21E-02          | 7.17E-03         | 9.00E-04          | 0.00E+00                |
| North Carolina | Ashe County          | 37009 | R                    | 8.55E-03                                                                | 8.57E-03 | 9.20E-03 | 1.01E-02 | 1.15E-02 | 1.06E-02 | 1.44E-02 | 1.68E-02 | 1.43E-11                         | 4.92E-03          | 5.93E-03         | 6.97E-04          | 0.00E+00                |
| North Carolina | Avery County         | 37011 | R                    | 1.26E-02                                                                | 1.28E-02 | 1.32E-02 | 1.36E-02 | 1.38E-02 | 1.45E-02 | 1.60E-02 | 1.65E-02 | 2.99E-07                         | 5.81E-03          | 6.86E-03         | 1.16E-03          | 0.00E+00                |
| North Carolina | Beaufort County      | 37013 | R                    | 5.95E-03                                                                | 5.98E-03 | 8.99E-03 | 1.04E-02 | 1.59E-02 | 1.39E-02 | 3.55E-02 | 3.55E-02 | 2.13E-07                         | 6.32E-03          | 8.04E-03         | 1.49E-03          | 0.00E+00                |

| State          | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| North Carolina | Bertie County     | 37015 | R                    | 6.96E-03                                                                | 7.01E-03 | 7.14E-03 | 7.52E-03 | 8.63E-03 | 9.36E-03 | 1.21E-02 | 1.31E-02 | 3.78E-10                         | 5.31E-03          | 2.80E-03         | 5.22E-04          | 0.00E+00                |
| North Carolina | Bladen County     | 37017 | R                    | 7.83E-03                                                                | 8.71E-03 | 1.09E-02 | 1.23E-02 | 1.43E-02 | 1.80E-02 | 2.08E-02 | 2.13E-02 | 1.57E-07                         | 8.55E-03          | 4.34E-03         | 1.37E-03          | 0.00E+00                |
| North Carolina | Brunswick County  | 37019 | R                    | 1.71E-03                                                                | 3.52E-03 | 8.40E-03 | 1.28E-02 | 1.84E-02 | 2.76E-02 | 3.44E-02 | 4.32E-02 | 1.12E-07                         | 8.95E-03          | 7.28E-03         | 2.16E-03          | 0.00E+00                |
| North Carolina | Buncombe County   | 37021 | R                    | 3.64E-02                                                                | 3.96E-02 | 5.58E-02 | 7.30E-02 | 7.68E-02 | 1.04E-01 | 1.13E-01 | 1.26E-01 | 4.90E-10                         | 6.30E-03          | 6.23E-02         | 8.19E-03          | 0.00E+00                |
| North Carolina | Burke County      | 37023 | U                    | 1.80E-02                                                                | 1.91E-02 | 2.62E-02 | 3.45E-02 | 3.32E-02 | 4.98E-02 | 5.84E-02 | 6.73E-02 | 3.91E-08                         | 9.48E-03          | 2.08E-02         | 2.91E-03          | 0.00E+00                |
| North Carolina | Cabarrus County   | 37025 | U                    | 3.12E-02                                                                | 3.36E-02 | 3.94E-02 | 5.66E-02 | 6.20E-02 | 9.24E-02 | 1.30E-01 | 1.54E-01 | 8.55E-06                         | 4.09E-03          | 4.47E-02         | 1.31E-02          | 0.00E+00                |
| North Carolina | Caldwell County   | 37027 | U                    | 1.54E-02                                                                | 1.64E-02 | 1.85E-02 | 2.59E-02 | 2.61E-02 | 3.09E-02 | 3.48E-02 | 3.97E-02 | 2.93E-08                         | 6.13E-03          | 1.68E-02         | 3.12E-03          | 0.00E+00                |
| North Carolina | Camden County     | 37029 | R                    | 9.92E-03                                                                | 9.92E-03 | 9.92E-03 | 9.92E-03 | 9.92E-03 | 9.92E-03 | 9.92E-03 | 9.92E-03 | 5.15E-11                         | 2.77E-03          | 5.51E-03         | 1.64E-03          | 0.00E+00                |
| North Carolina | Carteret County   | 37031 | R                    | 8.27E-03                                                                | 9.61E-03 | 1.23E-02 | 1.63E-02 | 1.81E-02 | 2.03E-02 | 2.79E-02 | 3.06E-02 | 1.31E-05                         | 4.99E-03          | 9.42E-03         | 3.66E-03          | 0.00E+00                |
| North Carolina | Caswell County    | 37033 | R                    | 1.29E-02                                                                | 1.31E-02 | 1.36E-02 | 1.46E-02 | 1.46E-02 | 1.56E-02 | 1.68E-02 | 1.74E-02 | 2.15E-10                         | 4.52E-03          | 8.83E-03         | 1.26E-03          | 0.00E+00                |
| North Carolina | Catawba County    | 37035 | U                    | 3.00E-02                                                                | 3.02E-02 | 3.20E-02 | 4.89E-02 | 5.18E-02 | 7.80E-02 | 1.06E-01 | 1.16E-01 | 1.94E-06                         | 3.43E-03          | 4.06E-02         | 7.81E-03          | 0.00E+00                |
| North Carolina | Chatham County    | 37037 | U                    | 5.30E-03                                                                | 1.06E-02 | 1.37E-02 | 1.71E-02 | 2.19E-02 | 2.35E-02 | 3.13E-02 | 3.31E-02 | 5.42E-07                         | 7.74E-03          | 1.14E-02         | 2.69E-03          | 0.00E+00                |
| North Carolina | Cherokee County   | 37039 | R                    | 9.55E-03                                                                | 9.63E-03 | 1.03E-02 | 1.23E-02 | 1.18E-02 | 1.31E-02 | 1.35E-02 | 1.36E-02 | 7.79E-08                         | 7.14E-03          | 4.12E-03         | 5.23E-04          | 0.00E+00                |
| North Carolina | Chowan County     | 37041 | R                    | 6.38E-03                                                                | 6.40E-03 | 6.46E-03 | 6.55E-03 | 6.57E-03 | 6.65E-03 | 6.70E-03 | 6.72E-03 | 1.27E-09                         | 2.55E-03          | 2.92E-03         | 1.10E-03          | 0.00E+00                |
| North Carolina | Clay County       | 37043 | R                    | 9.04E-03                                                                | 9.30E-03 | 1.01E-02 | 1.14E-02 | 1.16E-02 | 1.27E-02 | 1.35E-02 | 1.37E-02 | 2.69E-06                         | 6.93E-03          | 4.16E-03         | 4.93E-04          | 0.00E+00                |
| North Carolina | Cleveland County  | 37045 | R                    | 0.00E+00                                                                | 0.00E+00 | 1.73E-02 | 2.28E-02 | 3.11E-02 | 3.50E-02 | 5.81E-02 | 6.09E-02 | 3.66E-06                         | 4.89E-03          | 2.33E-02         | 2.97E-03          | 0.00E+00                |
| North Carolina | Columbus County   | 37047 | R                    | 7.39E-03                                                                | 7.68E-03 | 8.55E-03 | 1.26E-02 | 1.57E-02 | 1.42E-02 | 2.52E-02 | 3.27E-02 | 3.62E-08                         | 8.79E-03          | 5.91E-03         | 1.00E-03          | 0.00E+00                |
| North Carolina | Craven County     | 37049 | U                    | 9.29E-03                                                                | 1.05E-02 | 1.50E-02 | 2.65E-02 | 2.63E-02 | 5.48E-02 | 6.65E-02 | 7.20E-02 | 1.35E-04                         | 1.06E-02          | 1.13E-02         | 4.22E-03          | 0.00E+00                |
| North Carolina | Cumberland County | 37051 | U                    | 2.82E-02                                                                | 3.60E-02 | 4.38E-02 | 6.42E-02 | 5.64E-02 | 7.63E-02 | 9.06E-02 | 1.10E-01 | 6.10E-06                         | 3.83E-03          | 4.59E-02         | 6.69E-03          | 0.00E+00                |
| North Carolina | Currituck County  | 37053 | U                    | 4.21E-03                                                                | 4.34E-03 | 4.75E-03 | 8.81E-03 | 1.04E-02 | 1.35E-02 | 1.42E-02 | 1.44E-02 | 4.99E-11                         | 2.33E-03          | 5.37E-03         | 2.71E-03          | 0.00E+00                |
| North Carolina | Dare County       | 37055 | R                    | 4.76E-03                                                                | 5.53E-03 | 7.25E-03 | 1.07E-02 | 1.10E-02 | 1.39E-02 | 2.14E-02 | 2.51E-02 | 3.03E-12                         | 3.06E-03          | 3.81E-03         | 4.08E-03          | 0.00E+00                |
| North Carolina | Davidson County   | 37057 | U                    | 1.71E-02                                                                | 1.96E-02 | 2.24E-02 | 3.03E-02 | 2.93E-02 | 4.38E-02 | 5.29E-02 | 5.91E-02 | 3.02E-06                         | 3.82E-03          | 2.15E-02         | 3.95E-03          | 0.00E+00                |
| North Carolina | Davie County      | 37059 | U                    | 1.25E-02                                                                | 1.25E-02 | 1.33E-02 | 1.73E-02 | 1.75E-02 | 2.16E-02 | 2.59E-02 | 2.77E-02 | 8.14E-08                         | 3.94E-03          | 1.11E-02         | 2.52E-03          | 0.00E+00                |
| North Carolina | Duplin County     | 37061 | R                    | 7.28E-03                                                                | 7.32E-03 | 7.57E-03 | 7.76E-03 | 9.57E-03 | 8.85E-03 | 1.29E-02 | 1.42E-02 | 7.98E-09                         | 4.49E-03          | 4.49E-03         | 5.94E-04          | 0.00E+00                |
| North Carolina | Durham County     | 37063 | U                    | 2.20E-02                                                                | 3.30E-02 | 5.16E-02 | 6.65E-02 | 6.70E-02 | 8.08E-02 | 1.09E-01 | 1.21E-01 | 4.59E-08                         | 2.83E-03          | 5.30E-02         | 1.12E-02          | 0.00E+00                |
| North Carolina | Edgecombe County  | 37065 | R                    | 1.07E-02                                                                | 1.13E-02 | 1.19E-02 | 1.99E-02 | 2.74E-02 | 3.25E-02 | 5.22E-02 | 5.74E-02 | 5.99E-07                         | 6.53E-03          | 1.95E-02         | 1.44E-03          | 0.00E+00                |
| North Carolina | Forsyth County    | 37067 | U                    | 3.57E-02                                                                | 3.90E-02 | 5.22E-02 | 6.24E-02 | 6.20E-02 | 7.48E-02 | 9.32E-02 | 9.71E-02 | 5.11E-09                         | 2.60E-03          | 4.97E-02         | 9.72E-03          | 0.00E+00                |
| North Carolina | Franklin County   | 37069 | U                    | 1.07E-02                                                                | 1.07E-02 | 1.10E-02 | 1.41E-02 | 1.53E-02 | 1.97E-02 | 2.10E-02 | 2.13E-02 | 4.35E-08                         | 3.91E-03          | 9.27E-03         | 2.13E-03          | 0.00E+00                |
| North Carolina | Gaston County     | 37071 | U                    | 3.39E-02                                                                | 3.49E-02 | 4.98E-02 | 5.73E-02 | 5.71E-02 | 6.75E-02 | 8.22E-02 | 8.85E-02 | 1.43E-04                         | 5.47E-03          | 4.22E-02         | 9.30E-03          | 0.00E+00                |
| North Carolina | Gates County      | 37073 | R                    | 6.69E-03                                                                | 6.83E-03 | 7.25E-03 | 7.94E-03 | 9.13E-03 | 1.09E-02 | 1.27E-02 | 1.33E-02 | 7.94E-11                         | 4.85E-03          | 3.60E-03         | 6.89E-04          | 0.00E+00                |
| North Carolina | Graham County     | 37075 | R                    | 1.05E-02                                                                | 1.25E-02 | 1.86E-02 | 2.88E-02 | 2.66E-02 | 3.14E-02 | 3.29E-02 | 3.35E-02 | 0.00E+00                         | 2.02E-02          | 5.58E-03         | 8.13E-04          | 0.00E+00                |
| North Carolina | Granville County  | 37077 | R                    | 1.33E-02                                                                | 1.33E-02 | 1.45E-02 | 1.59E-02 | 2.03E-02 | 2.86E-02 | 3.57E-02 | 3.95E-02 | 1.70E-09                         | 8.78E-03          | 9.19E-03         | 2.34E-03          | 0.00E+00                |
| North Carolina | Greene County     | 37079 | R                    | 1.06E-02                                                                | 1.06E-02 | 1.07E-02 | 1.08E-02 | 1.34E-02 | 1.45E-02 | 1.67E-02 | 1.74E-02 | 2.12E-07                         | 4.30E-03          | 7.75E-03         | 1.36E-03          | 0.00E+00                |
| North Carolina | Guilford County   | 37081 | U                    | 3.46E-02                                                                | 3.92E-02 | 5.68E-02 | 7.34E-02 | 7.13E-02 | 8.58E-02 | 1.03E-01 | 1.07E-01 | 1.10E-08                         | 2.30E-03          | 5.15E-02         | 1.75E-02          | 0.00E+00                |
| North Carolina | Halifax County    | 37083 | R                    | 7.88E-03                                                                | 7.98E-03 | 9.30E-03 | 1.09E-02 | 1.53E-02 | 1.78E-02 | 2.46E-02 | 3.26E-02 | 2.64E-08                         | 6.08E-03          | 8.46E-03         | 7.24E-04          | 0.00E+00                |
| North Carolina | Harnett County    | 37085 | R                    | 1.38E-02                                                                | 1.42E-02 | 1.54E-02 | 1.69E-02 | 1.85E-02 | 1.98E-02 | 2.76E-02 | 2.99E-02 | 1.13E-06                         | 3.57E-03          | 1.27E-02         | 2.26E-03          | 0.00E+00                |
| North Carolina | Haywood County    | 37087 | R                    | 9.27E-03                                                                | 1.43E-02 | 2.52E-02 | 3.01E-02 | 3.08E-02 | 4.15E-02 | 4.54E-02 | 5.62E-02 | 1.13E-06                         | 1.13E-02          | 1.71E-02         | 2.31E-03          | 0.00E+00                |
| North Carolina | Henderson County  | 37089 | R                    | 2.36E-02                                                                | 2.44E-02 | 2.72E-02 | 3.79E-02 | 3.61E-02 | 4.42E-02 | 4.99E-02 | 5.65E-02 | 0.00E+00                         | 5.45E-03          | 2.63E-02         | 4.30E-03          | 0.00E+00                |
| North Carolina | Hertford County   | 37091 | R                    | 7.47E-03                                                                | 7.51E-03 | 7.64E-03 | 8.18E-03 | 1.10E-02 | 1.07E-02 | 1.44E-02 | 1.57E-02 | 2.21E-09                         | 5.60E-03          | 4.76E-03         | 6.67E-04          | 0.00E+00                |
| North Carolina | Hoke County       | 37093 | R                    | 1.19E-02                                                                | 1.20E-02 | 1.25E-02 | 1.53E-02 | 2.14E-02 | 2.50E-02 | 3.80E-02 | 4.23E-02 | 6.35E-07                         | 1.10E-02          | 9.34E-03         | 1.05E-03          | 0.00E+00                |
| North Carolina | Hyde County       | 37095 | R                    | 4.33E-03                                                                | 4.33E-03 | 4.33E-03 | 4.33E-03 | 4.33E-03 | 4.33E-03 | 4.33E-03 | 4.33E-03 | 3.20E-08                         | 1.97E-03          | 5.38E-04         | 1.82E-03          | 0.00E+00                |
| North Carolina | Iredell County    | 37097 | R                    | 1.56E-02                                                                | 1.62E-02 | 1.78E-02 | 2.57E-02 | 2.71E-02 | 3.32E-02 | 4.94E-02 | 5.33E-02 | 3.49E-07                         | 4.33E-03          | 1.95E-02         | 3.25E-03          | 0.00E+00                |
| North Carolina | Jackson County    | 37099 | R                    | 1.18E-02                                                                | 1.35E-02 | 1.49E-02 | 1.68E-02 | 1.99E-02 | 2.21E-02 | 2.44E-02 | 2.58E-02 | 0.00E+00                         | 1.08E-02          | 7.63E-03         | 1.46E-03          | 0.00E+00                |
| North Carolina | Johnston County   | 37101 | U                    | 1.18E-02                                                                | 1.21E-02 | 1.30E-02 | 1.43E-02 | 1.77E-02 | 1.61E-02 | 2.99E-02 | 4.40E-02 | 1.72E-07                         | 4.29E-03          | 1.02E-02         | 3.25E-03          | 0.00E+00                |
| North Carolina | Jones County      | 37103 | R                    | 6.91E-03                                                                | 7.10E-03 | 7.66E-03 | 8.60E-03 | 8.26E-03 | 9.34E-03 | 9.78E-03 | 9.93E-03 | 1.13E-06                         | 4.72E-03          | 2.98E-03         | 5.58E-04          | 0.00E+00                |
| North Carolina | Lee County        | 37105 | R                    | 1.89E-02                                                                | 1.94E-02 | 2.05E-02 | 4.20E-02 | 3.43E-02 | 5.04E-02 | 6.22E-02 | 6.52E-02 | 5.73E-07                         | 9.48E-03          | 2.05E-02         | 4.39E-03          | 0.00E+00                |
| North Carolina | Lenoir County     | 37107 | R                    | 1.10E-02                                                                | 1.13E-02 | 1.24E-02 | 2.14E-02 | 2.33E-02 | 3.33E-02 | 4.38E-02 | 5.10E-02 | 2.22E-08                         | 6.06E-03          | 1.49E-02         | 2.36E-03          | 0.00E+00                |
| North Carolina | Lincoln County    | 37109 | U                    | 0.00E+00                                                                | 4.36E-03 | 1.65E-02 | 1.97E-02 | 2.73E-02 | 3.21E-02 | 3.83E-02 | 4.31E-02 | 3.59E-06                         | 3.98E-03          | 1.92E-02         | 4.09E-03          | 0.00E+00                |
| North Carolina | McDowell County   | 37111 | R                    | 1.71E-02                                                                | 1.77E-02 | 1.87E-02 | 3.10E-02 | 3.07E-02 | 5.01E-02 | 5.67E-02 | 6.59E-02 | 1.48E-07                         | 1.24E-02          | 1.56E-02         | 2.64E-03          | 0.00E+00                |
| North Carolina | Macon County      | 37113 | R                    | 1.01E-02                                                                | 1.08E-02 | 1.32E-02 | 1.55E-02 | 1.95E-02 | 2.20E-02 | 2.46E-02 | 2.60E-02 | 0.00E+00                         | 1.15E-02          | 6.57E-03         | 1.46E-03          | 0.00E+00                |
| North Carolina | Madison County    | 37115 | R                    | 1.03E-02                                                                | 1.05E-02 | 1.18E-02 | 1.51E-02 | 1.61E-02 | 1.83E-02 | 1.92E-02 | 1.93E-02 | 3.35E-09                         | 4.85E-03          | 9.88E-03         | 1.33E-03          | 0.00E+00                |
| North Carolina | Martin County     | 37117 | R                    | 7.05E-03                                                                | 7.59E-03 | 8.81E-03 | 9.78E-03 | 1.26E-02 | 1.74E-02 | 1.97E-02 | 1.97E-02 | 6.49E-09                         | 5.22E-03          | 6.58E-03         | 8.31E-04          | 0.00E+00                |

| State          | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| North Carolina | Mecklenburg County   | 37119 | U                    | 5.10E-02                                                                | 5.89E-02 | 7.26E-02 | 8.91E-02 | 8.70E-02 | 1.04E-01 | 1.28E-01 | 1.46E-01 | 9.36E-06                         | 2.20E-03          | 5.65E-02         | 2.83E-02          | 0.00E+00                |
| North Carolina | Mitchell County      | 37121 | R                    | 1.51E-02                                                                | 1.52E-02 | 1.53E-02 | 2.11E-02 | 2.21E-02 | 2.69E-02 | 2.70E-02 | 2.70E-02 | 2.78E-06                         | 8.66E-03          | 1.16E-02         | 1.85E-03          | 0.00E+00                |
| North Carolina | Montgomery County    | 37123 | R                    | 9.95E-03                                                                | 1.01E-02 | 1.04E-02 | 1.17E-02 | 1.19E-02 | 1.28E-02 | 1.31E-02 | 1.32E-02 | 1.17E-05                         | 6.51E-03          | 4.59E-03         | 7.53E-04          | 0.00E+00                |
| North Carolina | Moore County         | 37125 | R                    | 6.40E-03                                                                | 1.08E-02 | 1.19E-02 | 1.46E-02 | 1.77E-02 | 1.94E-02 | 3.22E-02 | 3.92E-02 | 1.33E-07                         | 6.70E-03          | 9.03E-03         | 1.96E-03          | 0.00E+00                |
| North Carolina | Nash County          | 37127 | R                    | 1.46E-02                                                                | 1.47E-02 | 1.56E-02 | 1.82E-02 | 2.81E-02 | 3.36E-02 | 5.25E-02 | 6.10E-02 | 8.47E-07                         | 4.54E-03          | 2.13E-02         | 2.21E-03          | 0.00E+00                |
| North Carolina | New Hanover County   | 37129 | U                    | 1.34E-02                                                                | 2.74E-02 | 5.06E-02 | 6.70E-02 | 6.65E-02 | 7.73E-02 | 8.62E-02 | 1.32E-01 | 1.37E-07                         | 2.76E-03          | 4.99E-02         | 1.38E-02          | 0.00E+00                |
| North Carolina | Northampton County   | 37131 | R                    | 1.17E-03                                                                | 2.35E-03 | 5.86E-03 | 6.89E-03 | 7.05E-03 | 6.96E-03 | 8.03E-03 | 8.39E-03 | 1.70E-09                         | 3.51E-03          | 3.15E-03         | 4.00E-04          | 0.00E+00                |
| North Carolina | Onslow County        | 37133 | R                    | 1.78E-02                                                                | 1.97E-02 | 2.68E-02 | 3.58E-02 | 3.36E-02 | 4.58E-02 | 5.49E-02 | 5.96E-02 | 8.68E-07                         | 8.10E-03          | 2.34E-02         | 2.07E-03          | 0.00E+00                |
| North Carolina | Orange County        | 37135 | U                    | 2.23E-02                                                                | 2.45E-02 | 3.14E-02 | 5.01E-02 | 5.33E-02 | 6.40E-02 | 9.56E-02 | 1.02E-01 | 4.67E-08                         | 5.71E-03          | 3.91E-02         | 8.52E-03          | 0.00E+00                |
| North Carolina | Pamlico County       | 37137 | R                    | 1.31E-02                                                                | 1.32E-02 | 1.32E-02 | 1.32E-02 | 1.32E-02 | 1.32E-02 | 1.33E-02 | 1.33E-02 | 9.84E-06                         | 6.53E-03          | 3.87E-03         | 2.79E-03          | 0.00E+00                |
| North Carolina | Pasquotank County    | 37139 | R                    | 1.37E-02                                                                | 1.43E-02 | 1.89E-02 | 3.02E-02 | 2.60E-02 | 4.05E-02 | 4.19E-02 | 4.20E-02 | 3.67E-11                         | 6.62E-03          | 1.59E-02         | 3.46E-03          | 0.00E+00                |
| North Carolina | Pender County        | 37141 | R                    | 9.29E-03                                                                | 9.97E-03 | 1.15E-02 | 1.40E-02 | 1.39E-02 | 1.88E-02 | 2.65E-02 | 2.99E-02 | 5.63E-08                         | 6.22E-03          | 5.92E-03         | 1.75E-03          | 0.00E+00                |
| North Carolina | Perquimans County    | 37143 | R                    | 1.07E-02                                                                | 1.07E-02 | 1.07E-02 | 1.08E-02 | 1.08E-02 | 1.08E-02 | 1.09E-02 | 1.09E-02 | 4.61E-11                         | 4.22E-03          | 4.82E-03         | 1.75E-03          | 0.00E+00                |
| North Carolina | Person County        | 37145 | R                    | 1.40E-02                                                                | 1.40E-02 | 1.42E-02 | 1.52E-02 | 2.48E-02 | 3.98E-02 | 4.89E-02 | 4.95E-02 | 1.53E-09                         | 9.29E-03          | 1.33E-02         | 2.18E-03          | 0.00E+00                |
| North Carolina | Pitt County          | 37147 | U                    | 1.44E-02                                                                | 1.55E-02 | 1.65E-02 | 2.26E-02 | 3.48E-02 | 4.90E-02 | 5.85E-02 | 6.89E-02 | 7.79E-08                         | 4.19E-03          | 2.41E-02         | 6.56E-03          | 0.00E+00                |
| North Carolina | Polk County          | 37149 | R                    | 1.40E-02                                                                | 1.42E-02 | 1.47E-02 | 1.55E-02 | 1.74E-02 | 1.85E-02 | 2.03E-02 | 2.09E-02 | 1.94E-10                         | 6.85E-03          | 9.24E-03         | 1.28E-03          | 0.00E+00                |
| North Carolina | Randolph County      | 37151 | U                    | 1.42E-02                                                                | 1.59E-02 | 1.83E-02 | 2.62E-02 | 2.73E-02 | 3.81E-02 | 4.98E-02 | 5.26E-02 | 1.67E-06                         | 5.18E-03          | 1.82E-02         | 3.85E-03          | 0.00E+00                |
| North Carolina | Richmond County      | 37153 | R                    | 1.25E-02                                                                | 1.44E-02 | 1.54E-02 | 2.54E-02 | 2.60E-02 | 3.53E-02 | 4.48E-02 | 4.63E-02 | 3.21E-07                         | 1.26E-02          | 1.21E-02         | 1.29E-03          | 0.00E+00                |
| North Carolina | Robeson County       | 37155 | R                    | 9.85E-03                                                                | 1.08E-02 | 1.19E-02 | 1.38E-02 | 1.80E-02 | 2.31E-02 | 4.98E-02 | 5.01E-02 | 1.50E-06                         | 5.23E-03          | 1.16E-02         | 1.17E-03          | 0.00E+00                |
| North Carolina | Rockingham County    | 37157 | R                    | 1.64E-02                                                                | 1.68E-02 | 1.93E-02 | 2.42E-02 | 2.54E-02 | 3.28E-02 | 4.46E-02 | 4.81E-02 | 8.95E-10                         | 6.21E-03          | 1.69E-02         | 2.33E-03          | 0.00E+00                |
| North Carolina | Rowan County         | 37159 | U                    | 2.13E-02                                                                | 2.19E-02 | 2.42E-02 | 3.97E-02 | 3.45E-02 | 4.53E-02 | 6.35E-02 | 7.20E-02 | 5.08E-06                         | 4.25E-03          | 2.53E-02         | 4.99E-03          | 0.00E+00                |
| North Carolina | Rutherford County    | 37161 | R                    | 1.39E-02                                                                | 1.50E-02 | 1.57E-02 | 1.65E-02 | 2.28E-02 | 2.46E-02 | 3.61E-02 | 4.21E-02 | 3.46E-07                         | 7.48E-03          | 1.32E-02         | 2.19E-03          | 0.00E+00                |
| North Carolina | Sampson County       | 37163 | R                    | 8.92E-03                                                                | 8.98E-03 | 9.06E-03 | 9.76E-03 | 1.66E-02 | 1.60E-02 | 3.92E-02 | 3.92E-02 | 1.62E-07                         | 7.86E-03          | 7.73E-03         | 1.03E-03          | 0.00E+00                |
| North Carolina | Scotland County      | 37165 | R                    | 8.89E-03                                                                | 9.51E-03 | 1.08E-02 | 1.67E-02 | 2.03E-02 | 2.55E-02 | 3.45E-02 | 3.85E-02 | 9.00E-08                         | 7.75E-03          | 1.13E-02         | 1.24E-03          | 0.00E+00                |
| North Carolina | Stanly County        | 37167 | R                    | 1.34E-02                                                                | 1.35E-02 | 1.43E-02 | 1.57E-02 | 2.60E-02 | 4.25E-02 | 4.58E-02 | 5.93E-02 | 1.04E-03                         | 5.67E-03          | 1.65E-02         | 2.87E-03          | 0.00E+00                |
| North Carolina | Stokes County        | 37169 | U                    | 1.32E-02                                                                | 1.33E-02 | 1.35E-02 | 1.77E-02 | 1.86E-02 | 2.09E-02 | 2.16E-02 | 2.20E-02 | 2.19E-10                         | 4.45E-03          | 1.18E-02         | 2.40E-03          | 0.00E+00                |
| North Carolina | Surry County         | 37171 | R                    | 1.41E-02                                                                | 1.45E-02 | 1.59E-02 | 1.80E-02 | 2.20E-02 | 2.52E-02 | 4.26E-02 | 4.57E-02 | 1.16E-10                         | 5.29E-03          | 1.44E-02         | 2.38E-03          | 0.00E+00                |
| North Carolina | Swain County         | 37173 | R                    | 2.21E-02                                                                | 2.23E-02 | 2.29E-02 | 2.39E-02 | 2.32E-02 | 2.39E-02 | 2.39E-02 | 2.39E-02 | 0.00E+00                         | 1.63E-02          | 4.98E-03         | 1.89E-03          | 0.00E+00                |
| North Carolina | Transylvania County  | 37175 | R                    | 2.83E-02                                                                | 2.84E-02 | 2.85E-02 | 3.57E-02 | 4.83E-02 | 6.56E-02 | 7.34E-02 | 7.35E-02 | 0.00E+00                         | 1.53E-02          | 1.70E-02         | 1.60E-02          | 0.00E+00                |
| North Carolina | Tyrrell County       | 37177 | R                    | 4.42E-03                                                                | 4.42E-03 | 4.42E-03 | 4.42E-03 | 4.42E-03 | 4.42E-03 | 4.42E-03 | 4.42E-03 | 7.74E-11                         | 2.55E-03          | 6.70E-04         | 1.20E-03          | 0.00E+00                |
| North Carolina | Union County         | 37179 | U                    | 6.89E-03                                                                | 1.25E-02 | 1.43E-02 | 1.77E-02 | 2.36E-02 | 2.26E-02 | 3.50E-02 | 4.56E-02 | 3.60E-06                         | 3.56E-03          | 1.39E-02         | 6.18E-03          | 0.00E+00                |
| North Carolina | Vance County         | 37181 | R                    | 1.35E-02                                                                | 1.38E-02 | 1.46E-02 | 2.13E-02 | 2.33E-02 | 3.04E-02 | 3.31E-02 | 3.75E-02 | 2.62E-10                         | 6.34E-03          | 1.46E-02         | 2.35E-03          | 0.00E+00                |
| North Carolina | Wake County          | 37183 | U                    | 3.05E-02                                                                | 3.39E-02 | 4.40E-02 | 6.53E-02 | 6.42E-02 | 7.89E-02 | 9.68E-02 | 1.04E-01 | 6.41E-08                         | 3.00E-03          | 4.70E-02         | 1.41E-02          | 0.00E+00                |
| North Carolina | Warren County        | 37185 | R                    | 9.08E-03                                                                | 9.31E-03 | 1.00E-02 | 1.07E-02 | 1.27E-02 | 1.36E-02 | 1.82E-02 | 1.97E-02 | 2.19E-09                         | 6.13E-03          | 5.61E-03         | 9.24E-04          | 0.00E+00                |
| North Carolina | Washington County    | 37187 | R                    | 7.56E-03                                                                | 7.57E-03 | 7.59E-03 | 7.63E-03 | 1.03E-02 | 1.04E-02 | 1.21E-02 | 1.27E-02 | 1.70E-08                         | 5.46E-03          | 3.60E-03         | 1.26E-03          | 0.00E+00                |
| North Carolina | Watauga County       | 37189 | R                    | 1.78E-02                                                                | 1.90E-02 | 2.03E-02 | 2.25E-02 | 3.40E-02 | 3.38E-02 | 4.95E-02 | 5.81E-02 | 2.96E-07                         | 9.78E-03          | 1.97E-02         | 4.61E-03          | 0.00E+00                |
| North Carolina | Wayne County         | 37191 | R                    | 1.64E-02                                                                | 1.71E-02 | 2.01E-02 | 4.07E-02 | 3.33E-02 | 4.60E-02 | 6.29E-02 | 7.96E-02 | 2.06E-07                         | 4.30E-03          | 2.64E-02         | 2.56E-03          | 0.00E+00                |
| North Carolina | Wilkes County        | 37193 | R                    | 1.09E-02                                                                | 1.12E-02 | 1.28E-02 | 1.84E-02 | 2.05E-02 | 3.08E-02 | 4.07E-02 | 4.22E-02 | 8.54E-09                         | 8.73E-03          | 1.04E-02         | 1.37E-03          | 0.00E+00                |
| North Carolina | Wilson County        | 37195 | U                    | 1.13E-02                                                                | 1.21E-02 | 1.36E-02 | 2.03E-02 | 2.87E-02 | 4.14E-02 | 5.24E-02 | 5.72E-02 | 1.02E-05                         | 3.67E-03          | 1.77E-02         | 7.37E-03          | 0.00E+00                |
| North Carolina | Yadkin County        | 37197 | U                    | 1.20E-02                                                                | 1.20E-02 | 1.21E-02 | 1.32E-02 | 1.36E-02 | 1.38E-02 | 1.50E-02 | 1.54E-02 | 6.98E-10                         | 3.02E-03          | 9.09E-03         | 1.49E-03          | 0.00E+00                |
| North Carolina | Yancey County        | 37199 | R                    | 1.42E-02                                                                | 1.43E-02 | 1.47E-02 | 1.57E-02 | 1.84E-02 | 1.93E-02 | 2.44E-02 | 2.61E-02 | 7.28E-07                         | 9.71E-03          | 7.71E-03         | 9.66E-04          | 0.00E+00                |
| North Dakota   | Statewide            | 38000 | -                    | 4.70E-04                                                                | 6.13E-04 | 1.06E-03 | 4.07E-03 | 2.15E-02 | 2.34E-02 | 4.23E-02 | 5.64E-02 | 1.91E-05                         | 8.93E-03          | 7.65E-03         | 4.86E-03          | 0.00E+00                |
| North Dakota   | State Urban Counties | 38000 | U                    | 7.66E-04                                                                | 1.10E-03 | 2.79E-03 | 1.75E-02 | 2.65E-02 | 3.62E-02 | 5.42E-02 | 6.25E-02 | 2.78E-05                         | 9.00E-03          | 1.05E-02         | 6.96E-03          | 0.00E+00                |
| North Dakota   | State Rural Counties | 38000 | R                    | 4.16E-04                                                                | 4.77E-04 | 6.72E-04 | 1.36E-03 | 1.03E-02 | 4.17E-03 | 1.84E-02 | 3.67E-02 | 9.30E-08                         | 8.77E-03          | 1.26E-03         | 2.29E-04          | 0.00E+00                |
| North Dakota   | Adams County         | 38001 | R                    | 5.93E-04                                                                | 6.68E-04 | 8.94E-04 | 1.27E-03 | 1.34E-03 | 1.65E-03 | 1.87E-03 | 1.95E-03 | 0.00E+00                         | 8.16E-07          | 1.20E-03         | 1.35E-04          | 0.00E+00                |
| North Dakota   | Barnes County        | 38003 | U                    | 1.31E-03                                                                | 1.85E-03 | 3.47E-03 | 4.28E-03 | 3.39E-02 | 5.70E-02 | 5.71E-02 | 5.71E-02 | 0.00E+00                         | 2.32E-02          | 4.67E-03         | 6.07E-03          | 0.00E+00                |
| North Dakota   | Benson County        | 38005 | R                    | 7.24E-04                                                                | 7.28E-04 | 7.42E-04 | 7.64E-04 | 3.75E-03 | 3.88E-03 | 5.74E-03 | 6.37E-03 | 0.00E+00                         | 3.02E-03          | 4.70E-04         | 2.64E-04          | 0.00E+00                |
| North Dakota   | Billings County      | 38007 | R                    | 5.36E-03                                                                | 5.36E-03 | 5.36E-03 | 5.36E-03 | 5.36E-03 | 5.36E-03 | 5.36E-03 | 5.36E-03 | 0.00E+00                         | 5.20E-03          | 1.25E-04         | 3.85E-05          | 0.00E+00                |
| North Dakota   | Bottineau County     | 38009 | R                    | 6.80E-04                                                                | 7.59E-04 | 9.97E-04 | 1.52E-02 | 1.09E-01 | 9.72E-02 | 2.20E-01 | 2.60E-01 | 0.00E+00                         | 1.07E-01          | 1.56E-03         | 1.65E-04          | 0.00E+00                |
| North Dakota   | Bowman County        | 38011 | R                    | 9.00E-04                                                                | 1.01E-03 | 1.32E-03 | 1.85E-03 | 1.96E-03 | 2.38E-03 | 2.70E-03 | 2.81E-03 | 0.00E+00                         | 3.32E-04          | 1.49E-03         | 1.37E-04          | 0.00E+00                |
| North Dakota   | Burke County         | 38013 | R                    | 3.95E-04                                                                | 3.99E-04 | 4.12E-04 | 4.33E-04 | 4.35E-04 | 4.54E-04 | 4.67E-04 | 4.71E-04 | 0.00E+00                         | 2.60E-05          | 2.66E-04         | 1.43E-04          | 0.00E+00                |
| North Dakota   | Burleigh County      | 38015 | U                    | 1.69E-03                                                                | 4.65E-03 | 1.49E-02 | 3.45E-02 | 3.33E-02 | 3.87E-02 | 4.85E-02 | 5.31E-02 | 1.08E-04                         | 1.25E-02          | 1.21E-02         | 8.62E-03          | 0.00E+00                |

| State        | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|--------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|              |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|              |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| North Dakota | Cass County          | 38017 | U                    | 2.83E-03                                                                | 3.37E-03 | 1.48E-02 | 3.00E-02 | 3.60E-02 | 4.83E-02 | 5.45E-02 | 5.79E-02 | 0.00E+00                         | 8.74E-03          | 1.81E-02         | 9.25E-03          | 0.00E+00                |
| North Dakota | Cavalier County      | 38019 | R                    | 1.62E-03                                                                | 2.57E-03 | 5.43E-03 | 1.02E-02 | 8.87E-03 | 1.21E-02 | 1.32E-02 | 1.35E-02 | 0.00E+00                         | 6.81E-03          | 1.83E-03         | 2.40E-04          | 0.00E+00                |
| North Dakota | Dickey County        | 38021 | R                    | 9.26E-04                                                                | 9.30E-04 | 9.44E-04 | 9.68E-04 | 2.20E-03 | 2.97E-03 | 4.17E-03 | 4.58E-03 | 0.00E+00                         | 4.69E-04          | 1.53E-03         | 1.97E-04          | 0.00E+00                |
| North Dakota | Divide County        | 38023 | R                    | 4.74E-04                                                                | 4.95E-04 | 5.58E-04 | 6.64E-04 | 7.21E-04 | 7.70E-04 | 8.33E-04 | 8.54E-04 | 0.00E+00                         | 7.20E-05          | 4.25E-04         | 2.25E-04          | 0.00E+00                |
| North Dakota | Dunn County          | 38025 | R                    | 4.23E-04                                                                | 8.45E-04 | 2.11E-03 | 4.23E-03 | 4.25E-03 | 4.26E-03 | 4.27E-03 | 4.28E-03 | 0.00E+00                         | 3.68E-03          | 3.32E-04         | 2.40E-04          | 0.00E+00                |
| North Dakota | Eddy County          | 38027 | R                    | 1.07E-03                                                                | 1.23E-03 | 1.71E-03 | 2.49E-03 | 2.71E-03 | 3.28E-03 | 3.76E-03 | 3.92E-03 | 0.00E+00                         | 2.12E-04          | 2.26E-03         | 2.34E-04          | 0.00E+00                |
| North Dakota | Emmons County        | 38029 | R                    | 6.71E-04                                                                | 6.72E-04 | 6.76E-04 | 6.82E-04 | 1.22E-02 | 1.90E-02 | 3.00E-02 | 3.37E-02 | 1.49E-07                         | 1.10E-02          | 9.59E-04         | 2.19E-04          | 0.00E+00                |
| North Dakota | Foster County        | 38031 | R                    | 9.98E-04                                                                | 1.18E-03 | 1.72E-03 | 2.63E-03 | 2.92E-03 | 3.54E-03 | 4.08E-03 | 4.26E-03 | 0.00E+00                         | 9.70E-06          | 2.63E-03         | 2.78E-04          | 0.00E+00                |
| North Dakota | Golden Valley County | 38033 | R                    | 4.30E-04                                                                | 4.30E-04 | 4.30E-04 | 4.30E-04 | 4.30E-04 | 4.30E-04 | 4.30E-04 | 4.30E-04 | 0.00E+00                         | 1.50E-06          | 3.76E-04         | 5.27E-05          | 0.00E+00                |
| North Dakota | Grand Forks County   | 38035 | U                    | 2.33E-03                                                                | 2.65E-03 | 9.33E-03 | 2.99E-02 | 2.65E-02 | 3.88E-02 | 4.74E-02 | 5.61E-02 | 0.00E+00                         | 5.91E-03          | 1.35E-02         | 7.12E-03          | 0.00E+00                |
| North Dakota | Grant County         | 38037 | R                    | 4.14E-04                                                                | 4.16E-04 | 4.20E-04 | 4.26E-04 | 4.29E-04 | 4.33E-04 | 4.37E-04 | 4.39E-04 | 3.08E-07                         | 1.72E-05          | 3.08E-04         | 1.03E-04          | 0.00E+00                |
| North Dakota | Griggs County        | 38039 | R                    | 9.53E-04                                                                | 1.06E-03 | 1.38E-03 | 1.91E-03 | 1.85E-03 | 2.45E-03 | 2.77E-03 | 2.88E-03 | 0.00E+00                         | 9.66E-04          | 6.30E-04         | 2.50E-04          | 0.00E+00                |
| North Dakota | Hettinger County     | 38041 | R                    | 2.81E-04                                                                | 2.83E-04 | 2.90E-04 | 3.02E-04 | 3.03E-04 | 3.14E-04 | 3.21E-04 | 3.23E-04 | 0.00E+00                         | 1.08E-05          | 2.19E-04         | 7.26E-05          | 0.00E+00                |
| North Dakota | Kidder County        | 38043 | R                    | 1.37E-03                                                                | 1.37E-03 | 1.38E-03 | 1.40E-03 | 1.40E-03 | 1.42E-03 | 1.43E-03 | 1.44E-03 | 4.12E-08                         | 9.24E-04          | 2.74E-04         | 2.01E-04          | 0.00E+00                |
| North Dakota | LaMoure County       | 38045 | R                    | 5.25E-04                                                                | 5.36E-04 | 5.68E-04 | 6.21E-04 | 6.14E-04 | 6.47E-04 | 6.62E-04 | 6.68E-04 | 0.00E+00                         | 1.12E-04          | 3.78E-04         | 1.24E-04          | 0.00E+00                |
| North Dakota | Logan County         | 38047 | R                    | 4.56E-04                                                                | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 4.56E-04 | 0.00E+00                         | 8.99E-05          | 2.49E-04         | 1.18E-04          | 0.00E+00                |
| North Dakota | McHenry County       | 38049 | R                    | 9.61E-04                                                                | 1.01E-03 | 1.17E-03 | 1.31E-03 | 1.79E-03 | 1.94E-03 | 2.99E-03 | 3.34E-03 | 0.00E+00                         | 1.30E-03          | 3.14E-04         | 1.73E-04          | 0.00E+00                |
| North Dakota | McIntosh County      | 38051 | R                    | 5.39E-04                                                                | 5.45E-04 | 5.60E-04 | 5.85E-04 | 5.90E-04 | 6.11E-04 | 6.26E-04 | 6.31E-04 | 0.00E+00                         | 6.70E-05          | 3.88E-04         | 1.34E-04          | 0.00E+00                |
| North Dakota | McKenzie County      | 38053 | R                    | 3.84E-03                                                                | 4.21E-03 | 5.33E-03 | 1.02E-02 | 9.57E-03 | 1.53E-02 | 1.67E-02 | 1.72E-02 | 0.00E+00                         | 7.65E-03          | 1.63E-03         | 2.91E-04          | 0.00E+00                |
| North Dakota | McLean County        | 38055 | R                    | 7.34E-04                                                                | 7.40E-04 | 7.83E-04 | 1.07E-03 | 1.49E-03 | 1.79E-03 | 2.55E-03 | 2.84E-03 | 1.12E-06                         | 3.90E-04          | 7.67E-04         | 3.35E-04          | 0.00E+00                |
| North Dakota | Mercer County        | 38057 | U                    | 6.69E-04                                                                | 6.90E-04 | 7.52E-04 | 1.79E-03 | 2.41E-03 | 3.05E-03 | 3.53E-03 | 3.69E-03 | 6.70E-07                         | 3.20E-04          | 1.13E-03         | 9.51E-04          | 0.00E+00                |
| North Dakota | Morton County        | 38059 | U                    | 7.77E-04                                                                | 8.13E-04 | 9.20E-04 | 1.51E-02 | 1.44E-02 | 2.00E-02 | 2.71E-02 | 2.94E-02 | 2.41E-04                         | 6.00E-03          | 5.02E-03         | 3.10E-03          | 0.00E+00                |
| North Dakota | Mountrail County     | 38061 | R                    | 6.93E-04                                                                | 7.25E-04 | 8.21E-04 | 9.82E-04 | 1.20E-03 | 1.28E-03 | 1.45E-03 | 1.51E-03 | 0.00E+00                         | 6.37E-04          | 3.48E-04         | 2.14E-04          | 0.00E+00                |
| North Dakota | Nelson County        | 38063 | R                    | 8.69E-04                                                                | 8.72E-04 | 8.80E-04 | 8.95E-04 | 1.15E-03 | 1.26E-03 | 1.48E-03 | 1.56E-03 | 0.00E+00                         | 5.58E-04          | 4.09E-04         | 1.81E-04          | 0.00E+00                |
| North Dakota | Oliver County        | 38065 | R                    | 1.10E-03                                                                | 1.10E-03 | 1.10E-03 | 1.10E-03 | 1.10E-03 | 1.10E-03 | 1.10E-03 | 1.10E-03 | 1.94E-06                         | 6.97E-04          | 2.88E-04         | 1.17E-04          | 0.00E+00                |
| North Dakota | Pembina County       | 38067 | R                    | 2.11E-03                                                                | 2.40E-03 | 3.27E-03 | 6.23E-03 | 1.38E-02 | 1.19E-02 | 3.63E-02 | 4.44E-02 | 0.00E+00                         | 1.22E-02          | 1.40E-03         | 1.90E-04          | 0.00E+00                |
| North Dakota | Pierce County        | 38069 | U                    | 1.78E-03                                                                | 1.79E-03 | 1.81E-03 | 1.85E-03 | 1.83E-03 | 1.89E-03 | 1.91E-03 | 1.91E-03 | 0.00E+00                         | 1.00E-03          | 3.98E-04         | 4.28E-04          | 0.00E+00                |
| North Dakota | Ramsey County        | 38071 | U                    | 8.96E-04                                                                | 1.02E-03 | 5.09E-03 | 1.92E-02 | 2.30E-02 | 3.66E-02 | 4.20E-02 | 4.23E-02 | 0.00E+00                         | 9.40E-03          | 5.21E-03         | 8.41E-03          | 0.00E+00                |
| North Dakota | Ransom County        | 38073 | R                    | 2.24E-03                                                                | 2.45E-03 | 3.09E-03 | 4.15E-03 | 4.71E-03 | 5.67E-03 | 6.58E-03 | 6.88E-03 | 0.00E+00                         | 2.83E-03          | 1.70E-03         | 1.84E-04          | 0.00E+00                |
| North Dakota | Renville County      | 38075 | R                    | 6.13E-04                                                                | 6.55E-04 | 7.80E-04 | 9.90E-04 | 9.70E-04 | 1.20E-03 | 1.32E-03 | 1.37E-03 | 0.00E+00                         | 1.12E-04          | 5.67E-04         | 2.91E-04          | 0.00E+00                |
| North Dakota | Richland County      | 38077 | U                    | 1.11E-03                                                                | 1.13E-03 | 1.26E-03 | 1.81E-03 | 3.63E-02 | 1.99E-02 | 6.76E-02 | 9.20E-02 | 0.00E+00                         | 2.61E-02          | 5.40E-03         | 4.80E-03          | 0.00E+00                |
| North Dakota | Rolette County       | 38079 | R                    | 3.76E-03                                                                | 4.79E-03 | 7.89E-03 | 1.55E-02 | 2.33E-02 | 2.54E-02 | 3.27E-02 | 3.52E-02 | 0.00E+00                         | 2.14E-02          | 1.61E-03         | 2.77E-04          | 0.00E+00                |
| North Dakota | Sargent County       | 38081 | R                    | 1.30E-03                                                                | 1.44E-03 | 1.86E-03 | 2.56E-03 | 2.30E-03 | 2.85E-03 | 3.02E-03 | 3.08E-03 | 0.00E+00                         | 1.51E-03          | 6.11E-04         | 1.76E-04          | 0.00E+00                |
| North Dakota | Sheridan County      | 38083 | R                    | 3.60E-04                                                                | 3.60E-04 | 3.60E-04 | 3.60E-04 | 3.60E-04 | 3.60E-04 | 3.60E-04 | 3.60E-04 | 1.12E-07                         | 2.78E-05          | 1.94E-04         | 1.39E-04          | 0.00E+00                |
| North Dakota | Sioux County         | 38085 | R                    | 5.50E-04                                                                | 5.50E-04 | 5.50E-04 | 5.50E-04 | 5.50E-04 | 5.50E-04 | 5.50E-04 | 5.50E-04 | 0.00E+00                         | 1.87E-04          | 2.69E-04         | 9.42E-05          | 0.00E+00                |
| North Dakota | Slope County         | 38087 | 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 | 0.00E+00                         | 3.26E-04          | 1.24E-04         | 3.25E-05          | 0.00E+00                |
| North Dakota | Stark County         | 38089 | U                    | 1.66E-03                                                                | 2.05E-03 | 5.16E-03 | 6.59E-03 | 8.84E-03 | 1.10E-02 | 1.69E-02 | 1.70E-02 | 6.30E-09                         | 1.51E-03          | 4.21E-03         | 3.12E-03          | 0.00E+00                |
| North Dakota | Steele County        | 38091 | R                    | 1.31E-03                                                                | 1.31E-03 | 1.31E-03 | 1.31E-03 | 1.31E-03 | 1.31E-03 | 1.31E-03 | 1.31E-03 | 0.00E+00                         | 9.08E-04          | 3.11E-04         | 9.50E-05          | 0.00E+00                |
| North Dakota | Stutsman County      | 38093 | U                    | 4.62E-04                                                                | 4.65E-04 | 7.54E-04 | 5.37E-03 | 1.26E-02 | 1.82E-02 | 2.30E-02 | 2.79E-02 | 0.00E+00                         | 3.13E-03          | 3.87E-03         | 5.54E-03          | 0.00E+00                |
| North Dakota | Towner County        | 38095 | R                    | 6.14E-04                                                                | 6.28E-04 | 6.72E-04 | 7.44E-04 | 7.29E-04 | 8.16E-04 | 8.60E-04 | 8.74E-04 | 0.00E+00                         | 2.50E-04          | 3.40E-04         | 1.39E-04          | 0.00E+00                |
| North Dakota | Trail County         | 38097 | R                    | 1.86E-03                                                                | 1.90E-03 | 2.04E-03 | 1.91E-02 | 1.89E-02 | 3.64E-02 | 3.70E-02 | 3.72E-02 | 0.00E+00                         | 1.53E-02          | 3.20E-03         | 4.53E-04          | 0.00E+00                |
| North Dakota | Walsh County         | 38099 | R                    | 1.99E-03                                                                | 2.20E-03 | 2.70E-03 | 1.08E-02 | 1.32E-02 | 1.87E-02 | 2.77E-02 | 3.22E-02 | 0.00E+00                         | 8.73E-03          | 3.97E-03         | 4.67E-04          | 0.00E+00                |
| North Dakota | Ward County          | 38101 | U                    | 1.60E-03                                                                | 2.28E-03 | 5.30E-03 | 1.42E-02 | 1.70E-02 | 2.32E-02 | 2.63E-02 | 3.02E-02 | 0.00E+00                         | 2.86E-03          | 7.47E-03         | 6.67E-03          | 0.00E+00                |
| North Dakota | Wells County         | 38103 | R                    | 5.28E-04                                                                | 5.32E-04 | 5.42E-04 | 5.60E-04 | 1.78E-03 | 2.12E-03 | 3.05E-03 | 3.36E-03 | 0.00E+00                         | 1.69E-05          | 1.57E-03         | 1.95E-04          | 0.00E+00                |
| North Dakota | Williams County      | 38105 | U                    | 1.15E-03                                                                | 1.67E-03 | 2.46E-03 | 4.10E-02 | 4.11E-02 | 7.34E-02 | 7.66E-02 | 7.79E-02 | 0.00E+00                         | 2.79E-02          | 6.06E-03         | 7.13E-03          | 0.00E+00                |
| Ohio         | Statewide            | 39000 | -                    | 8.69E-03                                                                | 1.29E-02 | 2.81E-02 | 6.01E-02 | 6.53E-02 | 9.57E-02 | 1.30E-01 | 1.57E-01 | 2.62E-03                         | 1.40E-03          | 4.67E-02         | 1.45E-02          | 0.00E+00                |
| Ohio         | State Urban Counties | 39000 | U                    | 1.40E-02                                                                | 2.22E-02 | 4.34E-02 | 7.12E-02 | 7.59E-02 | 1.05E-01 | 1.38E-01 | 1.66E-01 | 3.02E-03                         | 1.03E-03          | 5.46E-02         | 1.73E-02          | 0.00E+00                |
| Ohio         | State Rural Counties | 39000 | R                    | 6.69E-03                                                                | 7.65E-03 | 1.03E-02 | 1.62E-02 | 2.08E-02 | 2.83E-02 | 4.34E-02 | 5.21E-02 | 9.97E-04                         | 2.94E-03          | 1.41E-02         | 2.69E-03          | 0.00E+00                |
| Ohio         | Adams County         | 39001 | R                    | 8.69E-03                                                                | 8.93E-03 | 9.72E-03 | 1.12E-02 | 1.20E-02 | 1.34E-02 | 1.58E-02 | 1.68E-02 | 2.51E-05                         | 4.10E-03          | 6.75E-03         | 1.15E-03          | 0.00E+00                |
| Ohio         | Allen County         | 39003 | R                    | 1.60E-02                                                                | 1.70E-02 | 2.52E-02 | 3.98E-02 | 3.52E-02 | 4.97E-02 | 5.70E-02 | 6.25E-02 | 2.69E-03                         | 1.06E-03          | 2.73E-02         | 4.15E-03          | 0.00E+00                |
| Ohio         | Ashland County       | 39005 | R                    | 9.13E-03                                                                | 9.29E-03 | 1.08E-02 | 2.07E-02 | 2.10E-02 | 2.76E-02 | 2.84E-02 | 4.23E-02 | 5.86E-06                         | 2.11E-03          | 1.45E-02         | 4.37E-03          | 0.00E+00                |
| Ohio         | Ashtabula County     | 39007 | U                    | 0.00E+00                                                                | 1.12E-03 | 1.10E-02 | 1.40E-02 | 2.20E-02 | 3.19E-02 | 4.03E-02 | 4.54E-02 | 6.92E-04                         | 2.85E-03          | 1.17E-02         | 6.76E-03          | 0.00E+00                |

| State | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Ohio  | Athens County     | 39009 | R                    | 1.11E-02                                                                | 1.16E-02 | 1.21E-02 | 2.12E-02 | 2.57E-02 | 2.20E-02 | 4.12E-02 | 4.50E-02 | 1.39E-03                         | 5.71E-03          | 1.69E-02         | 1.71E-03          | 0.00E+00                |
| Ohio  | Auglaize County   | 39011 | U                    | 5.93E-03                                                                | 5.96E-03 | 6.82E-03 | 9.91E-03 | 1.38E-02 | 1.55E-02 | 2.40E-02 | 2.71E-02 | 1.54E-04                         | 1.33E-03          | 9.88E-03         | 2.47E-03          | 0.00E+00                |
| Ohio  | Belmont County    | 39013 | R                    | 1.12E-02                                                                | 1.24E-02 | 1.48E-02 | 2.58E-02 | 2.62E-02 | 4.08E-02 | 4.45E-02 | 4.61E-02 | 7.75E-06                         | 5.89E-03          | 1.83E-02         | 1.95E-03          | 0.00E+00                |
| Ohio  | Brown County      | 39015 | U                    | 1.07E-02                                                                | 1.10E-02 | 1.19E-02 | 1.33E-02 | 1.45E-02 | 1.49E-02 | 1.73E-02 | 1.86E-02 | 5.16E-05                         | 1.86E-03          | 1.03E-02         | 2.26E-03          | 0.00E+00                |
| Ohio  | Butler County     | 39017 | U                    | 3.10E-02                                                                | 3.31E-02 | 4.20E-02 | 5.33E-02 | 5.69E-02 | 6.88E-02 | 8.16E-02 | 9.78E-02 | 1.40E-04                         | 9.47E-04          | 4.22E-02         | 1.37E-02          | 0.00E+00                |
| Ohio  | Carroll County    | 39019 | U                    | 8.14E-03                                                                | 8.27E-03 | 8.90E-03 | 1.05E-02 | 1.07E-02 | 1.17E-02 | 1.27E-02 | 1.31E-02 | 5.70E-04                         | 1.95E-03          | 6.88E-03         | 1.34E-03          | 0.00E+00                |
| Ohio  | Champaign County  | 39021 | R                    | 8.30E-03                                                                | 8.34E-03 | 9.03E-03 | 1.22E-02 | 1.99E-02 | 3.97E-02 | 4.39E-02 | 4.42E-02 | 3.75E-08                         | 1.39E-03          | 1.64E-02         | 2.07E-03          | 0.00E+00                |
| Ohio  | Clark County      | 39023 | U                    | 1.37E-02                                                                | 1.89E-02 | 2.63E-02 | 4.83E-02 | 4.73E-02 | 5.59E-02 | 7.17E-02 | 8.45E-02 | 1.04E-06                         | 7.09E-04          | 3.70E-02         | 9.66E-03          | 0.00E+00                |
| Ohio  | Clermont County   | 39025 | U                    | 3.27E-02                                                                | 3.52E-02 | 4.13E-02 | 6.00E-02 | 5.73E-02 | 6.89E-02 | 7.92E-02 | 8.68E-02 | 2.08E-04                         | 2.39E-03          | 4.29E-02         | 1.18E-02          | 0.00E+00                |
| Ohio  | Clinton County    | 39027 | R                    | 9.15E-03                                                                | 9.56E-03 | 1.21E-02 | 1.60E-02 | 2.00E-02 | 2.33E-02 | 3.42E-02 | 3.48E-02 | 2.34E-05                         | 1.11E-03          | 1.20E-02         | 6.94E-03          | 0.00E+00                |
| Ohio  | Columbiana County | 39029 | U                    | 1.27E-02                                                                | 1.30E-02 | 1.44E-02 | 2.32E-02 | 2.56E-02 | 3.93E-02 | 5.13E-02 | 5.39E-02 | 1.05E-04                         | 2.63E-03          | 1.91E-02         | 3.78E-03          | 0.00E+00                |
| Ohio  | Coshocton County  | 39031 | R                    | 8.75E-03                                                                | 8.83E-03 | 1.04E-02 | 1.63E-02 | 2.22E-02 | 3.33E-02 | 4.57E-02 | 5.53E-02 | 1.13E-05                         | 7.35E-03          | 1.37E-02         | 1.16E-03          | 0.00E+00                |
| Ohio  | Crawford County   | 39033 | U                    | 5.90E-03                                                                | 6.48E-03 | 1.66E-02 | 1.73E-02 | 2.05E-02 | 2.33E-02 | 3.58E-02 | 4.01E-02 | 7.41E-07                         | 2.70E-03          | 1.21E-02         | 5.79E-03          | 0.00E+00                |
| Ohio  | Cuyahoga County   | 39035 | U                    | 5.10E-02                                                                | 5.72E-02 | 6.98E-02 | 9.11E-02 | 9.59E-02 | 1.19E-01 | 1.48E-01 | 1.72E-01 | 2.53E-04                         | 8.09E-04          | 6.85E-02         | 2.63E-02          | 0.00E+00                |
| Ohio  | Darke County      | 39037 | R                    | 6.15E-03                                                                | 6.31E-03 | 7.00E-03 | 9.75E-03 | 1.42E-02 | 2.04E-02 | 2.71E-02 | 3.06E-02 | 6.83E-07                         | 4.89E-04          | 1.24E-02         | 1.31E-03          | 0.00E+00                |
| Ohio  | Defiance County   | 39039 | U                    | 4.91E-03                                                                | 5.03E-03 | 6.42E-03 | 7.54E-03 | 1.29E-02 | 2.23E-02 | 2.35E-02 | 2.38E-02 | 2.05E-06                         | 1.03E-03          | 9.62E-03         | 2.22E-03          | 0.00E+00                |
| Ohio  | Delaware County   | 39041 | U                    | 1.64E-02                                                                | 1.81E-02 | 2.62E-02 | 3.67E-02 | 3.81E-02 | 4.80E-02 | 8.96E-02 | 9.52E-02 | 0.00E+00                         | 2.21E-03          | 2.46E-02         | 1.13E-02          | 0.00E+00                |
| Ohio  | Erie County       | 39043 | U                    | 1.28E-02                                                                | 1.32E-02 | 1.54E-02 | 2.77E-02 | 3.00E-02 | 3.61E-02 | 5.55E-02 | 6.28E-02 | 3.69E-07                         | 5.97E-04          | 1.66E-02         | 1.28E-02          | 0.00E+00                |
| Ohio  | Fairfield County  | 39045 | U                    | 1.29E-02                                                                | 1.45E-02 | 1.75E-02 | 2.44E-02 | 2.95E-02 | 4.01E-02 | 5.82E-02 | 6.25E-02 | 5.00E-07                         | 1.67E-03          | 2.17E-02         | 6.18E-03          | 0.00E+00                |
| Ohio  | Fayette County    | 39047 | R                    | 6.99E-03                                                                | 7.21E-03 | 7.56E-03 | 2.15E-02 | 1.73E-02 | 2.48E-02 | 2.69E-02 | 2.69E-02 | 1.60E-07                         | 1.72E-03          | 1.34E-02         | 2.14E-03          | 0.00E+00                |
| Ohio  | Franklin County   | 39049 | U                    | 5.88E-02                                                                | 7.03E-02 | 8.55E-02 | 1.06E-01 | 1.13E-01 | 1.46E-01 | 1.78E-01 | 2.04E-01 | 2.36E-08                         | 3.94E-04          | 8.97E-02         | 2.33E-02          | 0.00E+00                |
| Ohio  | Fulton County     | 39051 | U                    | 6.80E-03                                                                | 7.07E-03 | 7.49E-03 | 1.20E-02 | 1.30E-02 | 1.65E-02 | 2.03E-02 | 2.06E-02 | 1.78E-07                         | 8.34E-04          | 9.13E-03         | 2.99E-03          | 0.00E+00                |
| Ohio  | Gallia County     | 39053 | R                    | 1.03E-02                                                                | 1.04E-02 | 1.09E-02 | 1.29E-02 | 1.54E-02 | 1.97E-02 | 2.33E-02 | 2.51E-02 | 1.96E-05                         | 5.08E-03          | 9.55E-03         | 7.66E-04          | 0.00E+00                |
| Ohio  | Geauga County     | 39055 | U                    | 2.19E-02                                                                | 2.31E-02 | 2.52E-02 | 2.98E-02 | 3.71E-02 | 4.15E-02 | 5.43E-02 | 5.54E-02 | 1.13E-03                         | 2.85E-03          | 2.11E-02         | 1.20E-02          | 0.00E+00                |
| Ohio  | Greene County     | 39057 | U                    | 1.62E-02                                                                | 1.90E-02 | 3.45E-02 | 4.25E-02 | 4.50E-02 | 5.42E-02 | 5.91E-02 | 6.11E-02 | 5.42E-06                         | 8.25E-04          | 3.71E-02         | 7.07E-03          | 0.00E+00                |
| Ohio  | Guernsey County   | 39059 | R                    | 8.12E-03                                                                | 8.30E-03 | 9.88E-03 | 1.86E-02 | 2.45E-02 | 2.70E-02 | 5.23E-02 | 5.91E-02 | 3.50E-06                         | 8.57E-03          | 1.47E-02         | 1.22E-03          | 0.00E+00                |
| Ohio  | Hamilton County   | 39061 | U                    | 7.01E-02                                                                | 7.78E-02 | 9.37E-02 | 1.16E-01 | 1.23E-01 | 1.52E-01 | 2.11E-01 | 2.28E-01 | 2.65E-03                         | 9.67E-04          | 8.33E-02         | 3.55E-02          | 0.00E+00                |
| Ohio  | Hancock County    | 39063 | U                    | 6.93E-03                                                                | 7.30E-03 | 8.72E-03 | 2.42E-02 | 2.27E-02 | 3.08E-02 | 3.97E-02 | 4.49E-02 | 7.80E-06                         | 2.28E-03          | 1.52E-02         | 5.26E-03          | 0.00E+00                |
| Ohio  | Hardin County     | 39065 | R                    | 5.03E-03                                                                | 5.33E-03 | 6.58E-03 | 8.30E-03 | 1.12E-02 | 1.53E-02 | 1.92E-02 | 1.92E-02 | 7.26E-05                         | 1.12E-03          | 8.72E-03         | 1.32E-03          | 0.00E+00                |
| Ohio  | Harrison County   | 39067 | R                    | 7.28E-03                                                                | 7.48E-03 | 8.09E-03 | 8.16E-03 | 9.33E-03 | 8.38E-03 | 1.20E-02 | 1.32E-02 | 2.08E-05                         | 3.42E-03          | 4.89E-03         | 1.00E-03          | 0.00E+00                |
| Ohio  | Henry County      | 39069 | R                    | 5.48E-03                                                                | 6.00E-03 | 7.10E-03 | 7.88E-03 | 1.18E-02 | 1.57E-02 | 2.22E-02 | 2.23E-02 | 8.77E-08                         | 7.47E-04          | 9.73E-03         | 1.33E-03          | 0.00E+00                |
| Ohio  | Highland County   | 39071 | R                    | 8.42E-03                                                                | 9.18E-03 | 1.05E-02 | 1.09E-02 | 1.35E-02 | 1.54E-02 | 2.18E-02 | 2.20E-02 | 1.21E-05                         | 1.92E-03          | 9.83E-03         | 1.76E-03          | 0.00E+00                |
| Ohio  | Hocking County    | 39073 | R                    | 1.20E-02                                                                | 1.25E-02 | 1.34E-02 | 1.40E-02 | 2.23E-02 | 2.85E-02 | 4.11E-02 | 4.23E-02 | 1.22E-05                         | 7.16E-03          | 9.75E-03         | 5.35E-03          | 0.00E+00                |
| Ohio  | Holmes County     | 39075 | R                    | 9.16E-03                                                                | 9.22E-03 | 9.42E-03 | 9.75E-03 | 1.04E-02 | 9.99E-03 | 1.31E-02 | 1.47E-02 | 2.06E-05                         | 1.75E-03          | 7.43E-03         | 1.23E-03          | 0.00E+00                |
| Ohio  | Huron County      | 39077 | R                    | 8.12E-03                                                                | 8.33E-03 | 8.67E-03 | 1.29E-02 | 1.70E-02 | 2.16E-02 | 2.94E-02 | 3.20E-02 | 4.78E-07                         | 2.04E-03          | 1.14E-02         | 3.52E-03          | 0.00E+00                |
| Ohio  | Jackson County    | 39079 | R                    | 7.98E-03                                                                | 8.11E-03 | 1.20E-02 | 2.09E-02 | 2.13E-02 | 2.99E-02 | 3.90E-02 | 3.92E-02 | 9.63E-06                         | 8.95E-03          | 1.10E-02         | 1.36E-03          | 0.00E+00                |
| Ohio  | Jefferson County  | 39081 | R                    | 2.07E-02                                                                | 2.11E-02 | 2.33E-02 | 4.09E-02 | 3.59E-02 | 5.00E-02 | 6.18E-02 | 6.41E-02 | 1.91E-04                         | 3.53E-03          | 2.43E-02         | 7.89E-03          | 0.00E+00                |
| Ohio  | Knox County       | 39083 | R                    | 7.88E-03                                                                | 8.29E-03 | 8.75E-03 | 1.05E-02 | 1.56E-02 | 2.15E-02 | 3.20E-02 | 3.21E-02 | 3.01E-10                         | 2.12E-03          | 1.20E-02         | 1.52E-03          | 0.00E+00                |
| Ohio  | Lake County       | 39085 | U                    | 2.83E-02                                                                | 3.50E-02 | 4.38E-02 | 5.32E-02 | 7.30E-02 | 7.02E-02 | 8.41E-02 | 1.16E-01 | 2.14E-02                         | 9.25E-04          | 3.22E-02         | 1.84E-02          | 0.00E+00                |
| Ohio  | Lawrence County   | 39087 | U                    | 1.64E-02                                                                | 1.78E-02 | 2.35E-02 | 3.04E-02 | 3.18E-02 | 4.05E-02 | 5.61E-02 | 5.89E-02 | 4.04E-04                         | 5.20E-03          | 2.29E-02         | 3.27E-03          | 0.00E+00                |
| Ohio  | Licking County    | 39089 | U                    | 1.60E-02                                                                | 1.70E-02 | 2.02E-02 | 3.35E-02 | 3.38E-02 | 4.61E-02 | 5.97E-02 | 6.45E-02 | 1.76E-07                         | 2.22E-03          | 2.49E-02         | 6.62E-03          | 0.00E+00                |
| Ohio  | Logan County      | 39091 | R                    | 1.08E-02                                                                | 1.20E-02 | 1.25E-02 | 1.49E-02 | 2.14E-02 | 2.39E-02 | 4.13E-02 | 4.28E-02 | 1.14E-05                         | 3.43E-03          | 1.26E-02         | 5.33E-03          | 0.00E+00                |
| Ohio  | Lorain County     | 39093 | U                    | 1.78E-02                                                                | 2.00E-02 | 2.80E-02 | 3.86E-02 | 4.14E-02 | 5.24E-02 | 6.29E-02 | 6.86E-02 | 5.30E-06                         | 6.63E-04          | 2.81E-02         | 1.26E-02          | 0.00E+00                |
| Ohio  | Lucas County      | 39095 | U                    | 3.32E-02                                                                | 4.61E-02 | 6.83E-02 | 8.31E-02 | 8.63E-02 | 1.09E-01 | 1.28E-01 | 1.47E-01 | 2.45E-06                         | 3.48E-04          | 7.04E-02         | 1.56E-02          | 0.00E+00                |
| Ohio  | Madison County    | 39097 | U                    | 7.46E-03                                                                | 7.64E-03 | 1.25E-02 | 1.93E-02 | 2.02E-02 | 2.95E-02 | 4.90E-02 | 4.92E-02 | 2.50E-09                         | 4.48E-04          | 1.49E-02         | 4.94E-03          | 0.00E+00                |
| Ohio  | Mahoning County   | 39099 | U                    | 2.30E-02                                                                | 2.82E-02 | 4.79E-02 | 5.57E-02 | 5.38E-02 | 6.40E-02 | 7.85E-02 | 8.40E-02 | 9.07E-05                         | 1.53E-03          | 4.31E-02         | 9.07E-03          | 0.00E+00                |
| Ohio  | Marion County     | 39101 | U                    | 7.26E-03                                                                | 7.87E-03 | 1.55E-02 | 3.11E-02 | 2.56E-02 | 3.96E-02 | 4.51E-02 | 4.80E-02 | 3.20E-08                         | 6.93E-04          | 1.90E-02         | 5.91E-03          | 0.00E+00                |
| Ohio  | Medina County     | 39103 | U                    | 1.81E-02                                                                | 1.85E-02 | 2.24E-02 | 3.24E-02 | 3.91E-02 | 4.54E-02 | 5.94E-02 | 6.17E-02 | 4.31E-04                         | 1.77E-03          | 2.65E-02         | 1.05E-02          | 0.00E+00                |
| Ohio  | Meigs County      | 39105 | R                    | 9.15E-03                                                                | 9.56E-03 | 1.09E-02 | 1.28E-02 | 1.53E-02 | 1.90E-02 | 2.40E-02 | 2.55E-02 | 7.66E-04                         | 5.72E-03          | 8.08E-03         | 7.07E-04          | 0.00E+00                |
| Ohio  | Mercer County     | 39107 | R                    | 5.53E-03                                                                | 5.63E-03 | 5.84E-03 | 6.39E-03 | 1.04E-02 | 1.61E-02 | 2.07E-02 | 2.08E-02 | 1.36E-05                         | 3.43E-04          | 8.86E-03         | 1.20E-03          | 0.00E+00                |
| Ohio  | Miami County      | 39109 | U                    | 1.21E-02                                                                | 1.36E-02 | 1.86E-02 | 2.87E-02 | 2.93E-02 | 3.23E-02 | 4.05E-02 | 4.80E-02 | 2.36E-06                         | 7.55E-04          | 2.18E-02         | 6.81E-03          | 0.00E+00                |
| Ohio  | Monroe County     | 39111 | R                    | 7.31E-03                                                                | 7.52E-03 | 8.14E-03 | 1.01E-02 | 1.07E-02 | 1.25E-02 | 1.39E-02 | 1.44E-02 | 6.05E-05                         | 5.06E-03          | 5.06E-03         | 5.61E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Ohio     | Montgomery County    | 39113 | U                    | 4.52E-02                                                                | 5.61E-02 | 6.77E-02 | 8.22E-02 | 8.23E-02 | 1.01E-01 | 1.18E-01 | 1.26E-01 | 9.88E-06                         | 3.04E-04          | 6.82E-02         | 1.38E-02          | 0.00E+00                |
| Ohio     | Morgan County        | 39115 | R                    | 1.79E-03                                                                | 3.59E-03 | 8.96E-03 | 9.17E-03 | 1.39E-02 | 1.18E-02 | 1.87E-02 | 2.10E-02 | 7.64E-04                         | 6.35E-03          | 6.06E-03         | 7.44E-04          | 0.00E+00                |
| Ohio     | Morrow County        | 39117 | R                    | 7.76E-03                                                                | 7.91E-03 | 8.30E-03 | 1.03E-02 | 1.03E-02 | 1.22E-02 | 1.27E-02 | 1.29E-02 | 1.13E-08                         | 8.66E-04          | 7.79E-03         | 1.59E-03          | 0.00E+00                |
| Ohio     | Muskingum County     | 39119 | R                    | 1.06E-02                                                                | 1.10E-02 | 1.34E-02 | 2.43E-02 | 2.44E-02 | 3.41E-02 | 3.64E-02 | 4.34E-02 | 2.64E-06                         | 3.89E-03          | 1.90E-02         | 1.55E-03          | 0.00E+00                |
| Ohio     | Noble County         | 39121 | R                    | 7.53E-03                                                                | 7.70E-03 | 8.18E-03 | 9.00E-03 | 1.20E-02 | 1.33E-02 | 1.59E-02 | 1.67E-02 | 6.16E-05                         | 5.45E-03          | 5.85E-03         | 6.54E-04          | 0.00E+00                |
| Ohio     | Ottawa County        | 39123 | R                    | 1.54E-02                                                                | 1.70E-02 | 1.77E-02 | 1.93E-02 | 2.30E-02 | 2.82E-02 | 3.22E-02 | 3.34E-02 | 3.34E-06                         | 4.12E-04          | 1.33E-02         | 9.19E-03          | 0.00E+00                |
| Ohio     | Paulding County      | 39125 | R                    | 5.08E-03                                                                | 5.10E-03 | 5.15E-03 | 6.29E-03 | 6.23E-03 | 7.09E-03 | 7.21E-03 | 7.26E-03 | 6.60E-06                         | 3.51E-04          | 4.94E-03         | 9.30E-04          | 0.00E+00                |
| Ohio     | Perry County         | 39127 | R                    | 1.02E-02                                                                | 1.02E-02 | 1.07E-02 | 1.22E-02 | 1.39E-02 | 1.63E-02 | 1.92E-02 | 2.00E-02 | 2.03E-06                         | 3.52E-03          | 9.08E-03         | 1.31E-03          | 0.00E+00                |
| Ohio     | Pickaway County      | 39129 | U                    | 8.35E-03                                                                | 9.41E-03 | 1.33E-02 | 1.79E-02 | 2.18E-02 | 3.04E-02 | 4.05E-02 | 4.62E-02 | 7.25E-10                         | 5.01E-04          | 1.73E-02         | 4.05E-03          | 0.00E+00                |
| Ohio     | Pike County          | 39131 | R                    | 9.41E-03                                                                | 9.70E-03 | 1.04E-02 | 1.07E-02 | 1.45E-02 | 2.02E-02 | 2.55E-02 | 2.65E-02 | 3.30E-06                         | 5.14E-03          | 8.39E-03         | 9.30E-04          | 0.00E+00                |
| Ohio     | Portage County       | 39133 | U                    | 2.87E-02                                                                | 2.96E-02 | 3.21E-02 | 4.64E-02 | 5.77E-02 | 7.20E-02 | 8.98E-02 | 1.09E-01 | 9.73E-03                         | 1.86E-03          | 3.15E-02         | 1.46E-02          | 0.00E+00                |
| Ohio     | Preble County        | 39135 | R                    | 8.33E-03                                                                | 9.00E-03 | 1.03E-02 | 1.22E-02 | 1.40E-02 | 1.58E-02 | 2.09E-02 | 2.10E-02 | 1.02E-05                         | 6.10E-04          | 1.14E-02         | 1.96E-03          | 0.00E+00                |
| Ohio     | Putnam County        | 39137 | R                    | 5.68E-03                                                                | 5.81E-03 | 6.02E-03 | 6.78E-03 | 7.02E-03 | 7.81E-03 | 8.49E-03 | 8.59E-03 | 7.33E-05                         | 2.05E-04          | 5.84E-03         | 9.01E-04          | 0.00E+00                |
| Ohio     | Richland County      | 39139 | U                    | 1.26E-02                                                                | 1.34E-02 | 1.84E-02 | 3.69E-02 | 2.98E-02 | 4.39E-02 | 5.33E-02 | 5.40E-02 | 7.16E-08                         | 9.13E-04          | 2.22E-02         | 6.68E-03          | 0.00E+00                |
| Ohio     | Ross County          | 39141 | R                    | 8.36E-03                                                                | 8.79E-03 | 9.53E-03 | 1.62E-02 | 2.13E-02 | 3.32E-02 | 4.71E-02 | 5.37E-02 | 3.15E-07                         | 3.52E-03          | 1.60E-02         | 1.70E-03          | 0.00E+00                |
| Ohio     | Sandusky County      | 39143 | R                    | 8.25E-03                                                                | 8.54E-03 | 9.72E-03 | 1.45E-02 | 1.79E-02 | 2.38E-02 | 3.01E-02 | 3.39E-02 | 1.11E-07                         | 3.86E-04          | 1.47E-02         | 2.83E-03          | 0.00E+00                |
| Ohio     | Scioto County        | 39145 | R                    | 1.28E-02                                                                | 1.34E-02 | 1.47E-02 | 2.33E-02 | 2.57E-02 | 3.94E-02 | 4.27E-02 | 4.42E-02 | 6.68E-05                         | 6.03E-03          | 1.79E-02         | 1.75E-03          | 0.00E+00                |
| Ohio     | Seneca County        | 39147 | R                    | 6.66E-03                                                                | 6.90E-03 | 7.53E-03 | 1.86E-02 | 1.82E-02 | 2.06E-02 | 3.28E-02 | 3.83E-02 | 1.07E-06                         | 1.56E-03          | 1.46E-02         | 2.05E-03          | 0.00E+00                |
| Ohio     | Shelby County        | 39149 | R                    | 6.21E-03                                                                | 6.79E-03 | 8.06E-03 | 9.62E-03 | 1.70E-02 | 2.37E-02 | 3.28E-02 | 3.77E-02 | 1.34E-05                         | 2.60E-03          | 1.25E-02         | 1.93E-03          | 0.00E+00                |
| Ohio     | Stark County         | 39151 | U                    | 2.48E-02                                                                | 2.83E-02 | 4.25E-02 | 6.05E-02 | 5.78E-02 | 7.52E-02 | 8.72E-02 | 1.18E-01 | 2.41E-03                         | 7.08E-04          | 4.45E-02         | 1.02E-02          | 0.00E+00                |
| Ohio     | Summit County        | 39153 | U                    | 4.27E-02                                                                | 5.10E-02 | 6.79E-02 | 9.06E-02 | 1.10E-01 | 1.09E-01 | 1.25E-01 | 1.39E-01 | 3.18E-02                         | 1.49E-03          | 6.06E-02         | 1.58E-02          | 0.00E+00                |
| Ohio     | Trumbull County      | 39155 | U                    | 0.00E+00                                                                | 1.83E-02 | 2.22E-02 | 3.63E-02 | 4.06E-02 | 5.19E-02 | 7.09E-02 | 7.22E-02 | 1.99E-04                         | 1.84E-03          | 3.16E-02         | 6.99E-03          | 0.00E+00                |
| Ohio     | Tuscarawas County    | 39157 | R                    | 1.09E-02                                                                | 1.11E-02 | 1.29E-02 | 1.50E-02 | 2.00E-02 | 2.33E-02 | 3.45E-02 | 3.48E-02 | 8.93E-05                         | 3.46E-03          | 1.39E-02         | 2.50E-03          | 0.00E+00                |
| Ohio     | Union County         | 39159 | R                    | 1.13E-02                                                                | 1.14E-02 | 1.19E-02 | 1.33E-02 | 2.08E-02 | 2.62E-02 | 3.85E-02 | 3.88E-02 | 3.39E-08                         | 1.42E-03          | 1.62E-02         | 3.16E-03          | 0.00E+00                |
| Ohio     | Van Wert County      | 39161 | R                    | 6.44E-03                                                                | 6.98E-03 | 7.65E-03 | 1.64E-02 | 1.56E-02 | 2.12E-02 | 3.13E-02 | 3.26E-02 | 4.19E-05                         | 5.25E-04          | 1.29E-02         | 2.10E-03          | 0.00E+00                |
| Ohio     | Vinton County        | 39163 | R                    | 8.26E-03                                                                | 8.27E-03 | 8.30E-03 | 8.35E-03 | 1.08E-02 | 1.13E-02 | 1.30E-02 | 1.36E-02 | 8.77E-06                         | 5.17E-03          | 4.77E-03         | 8.36E-04          | 0.00E+00                |
| Ohio     | Warren County        | 39165 | U                    | 3.11E-02                                                                | 3.24E-02 | 3.67E-02 | 4.35E-02 | 5.28E-02 | 6.40E-02 | 7.87E-02 | 8.95E-02 | 1.23E-04                         | 1.39E-03          | 3.74E-02         | 1.39E-02          | 0.00E+00                |
| Ohio     | Washington County    | 39167 | R                    | 1.36E-02                                                                | 1.47E-02 | 2.02E-02 | 2.61E-02 | 4.89E-02 | 5.48E-02 | 7.68E-02 | 1.07E-01 | 2.57E-02                         | 4.36E-03          | 1.67E-02         | 2.19E-03          | 0.00E+00                |
| Ohio     | Wayne County         | 39169 | R                    | 1.45E-02                                                                | 1.48E-02 | 1.54E-02 | 1.74E-02 | 2.43E-02 | 2.89E-02 | 3.88E-02 | 5.08E-02 | 4.14E-04                         | 1.64E-03          | 1.66E-02         | 5.58E-03          | 0.00E+00                |
| Ohio     | Williams County      | 39171 | R                    | 6.41E-03                                                                | 6.60E-03 | 6.69E-03 | 6.86E-03 | 1.23E-02 | 1.23E-02 | 2.46E-02 | 2.70E-02 | 6.84E-09                         | 6.12E-04          | 1.03E-02         | 1.44E-03          | 0.00E+00                |
| Ohio     | Wood County          | 39173 | U                    | 1.08E-02                                                                | 1.11E-02 | 1.39E-02 | 2.07E-02 | 3.60E-02 | 4.86E-02 | 7.40E-02 | 7.64E-02 | 2.37E-06                         | 1.77E-04          | 2.75E-02         | 8.24E-03          | 0.00E+00                |
| Ohio     | Wyandot County       | 39175 | R                    | 4.79E-03                                                                | 4.87E-03 | 5.04E-03 | 5.16E-03 | 7.23E-03 | 1.08E-02 | 1.26E-02 | 1.27E-02 | 4.92E-07                         | 4.08E-04          | 5.37E-03         | 1.45E-03          | 0.00E+00                |
| Oklahoma | Statewide            | 40000 | -                    | 5.23E-04                                                                | 1.52E-03 | 6.86E-03 | 2.87E-02 | 4.19E-02 | 7.32E-02 | 9.95E-02 | 1.14E-01 | 8.69E-05                         | 2.50E-03          | 3.32E-02         | 6.13E-03          | 0.00E+00                |
| Oklahoma | State Urban Counties | 40000 | U                    | 1.84E-03                                                                | 5.51E-03 | 2.12E-02 | 5.55E-02 | 5.30E-02 | 8.34E-02 | 1.06E-01 | 1.20E-01 | 1.18E-04                         | 1.85E-03          | 4.29E-02         | 8.14E-03          | 0.00E+00                |
| Oklahoma | State Rural Counties | 40000 | R                    | 0.00E+00                                                                | 5.81E-04 | 1.76E-03 | 5.41E-03 | 1.16E-02 | 1.11E-02 | 2.45E-02 | 3.39E-02 | 1.93E-06                         | 4.28E-03          | 6.67E-03         | 6.99E-04          | 0.00E+00                |
| Oklahoma | Adair County         | 40001 | R                    | 7.28E-03                                                                | 7.50E-03 | 8.14E-03 | 9.47E-03 | 1.28E-02 | 1.35E-02 | 2.05E-02 | 2.28E-02 | 0.00E+00                         | 5.33E-03          | 6.90E-03         | 5.47E-04          | 0.00E+00                |
| Oklahoma | Alfalfa County       | 40003 | R                    | 9.19E-04                                                                | 9.58E-04 | 1.08E-03 | 1.33E-03 | 1.31E-03 | 1.51E-03 | 1.51E-03 | 1.51E-03 | 0.00E+00                         | 1.66E-05          | 1.02E-03         | 2.65E-04          | 0.00E+00                |
| Oklahoma | Atoka County         | 40005 | R                    | 2.43E-03                                                                | 2.47E-03 | 2.58E-03 | 3.98E-03 | 5.80E-03 | 6.62E-03 | 8.96E-03 | 9.75E-03 | 4.24E-13                         | 4.00E-03          | 1.63E-03         | 1.63E-04          | 0.00E+00                |
| Oklahoma | Beaver County        | 40007 | R                    | 3.83E-04                                                                | 3.87E-04 | 3.97E-04 | 4.14E-04 | 9.84E-04 | 1.44E-03 | 2.05E-03 | 2.26E-03 | 0.00E+00                         | 4.89E-06          | 8.52E-04         | 1.27E-04          | 0.00E+00                |
| Oklahoma | Beckham County       | 40009 | U                    | 7.70E-04                                                                | 8.05E-04 | 9.10E-04 | 1.11E-03 | 2.89E-03 | 3.82E-03 | 3.91E-03 | 3.93E-03 | 0.00E+00                         | 1.19E-06          | 2.21E-03         | 6.86E-04          | 0.00E+00                |
| Oklahoma | Blaine County        | 40011 | R                    | 1.03E-03                                                                | 1.07E-03 | 1.19E-03 | 1.32E-03 | 2.01E-03 | 2.85E-03 | 2.89E-03 | 2.91E-03 | 7.49E-07                         | 8.29E-06          | 1.78E-03         | 2.21E-04          | 0.00E+00                |
| Oklahoma | Bryan County         | 40013 | R                    | 3.71E-03                                                                | 3.79E-03 | 4.95E-03 | 9.68E-03 | 1.39E-02 | 1.76E-02 | 3.29E-02 | 3.35E-02 | 2.46E-09                         | 2.65E-03          | 1.04E-02         | 8.16E-04          | 0.00E+00                |
| Oklahoma | Caddo County         | 40015 | R                    | 2.08E-03                                                                | 2.10E-03 | 2.14E-03 | 3.32E-03 | 3.97E-03 | 4.39E-03 | 6.05E-03 | 6.07E-03 | 8.01E-07                         | 4.81E-05          | 3.61E-03         | 3.18E-04          | 0.00E+00                |
| Oklahoma | Canadian County      | 40017 | U                    | 7.52E-03                                                                | 9.22E-03 | 1.76E-02 | 2.54E-02 | 2.91E-02 | 3.14E-02 | 4.05E-02 | 5.72E-02 | 1.78E-03                         | 6.82E-05          | 2.33E-02         | 3.92E-03          | 0.00E+00                |
| Oklahoma | Carter County        | 40019 | U                    | 2.96E-03                                                                | 3.45E-03 | 3.94E-03 | 8.18E-03 | 1.34E-02 | 1.94E-02 | 3.65E-02 | 3.71E-02 | 1.16E-07                         | 3.41E-03          | 7.76E-03         | 2.21E-03          | 0.00E+00                |
| Oklahoma | Cherokee County      | 40021 | R                    | 1.02E-02                                                                | 1.08E-02 | 1.50E-02 | 1.86E-02 | 2.74E-02 | 3.63E-02 | 5.40E-02 | 5.85E-02 | 5.59E-07                         | 9.16E-03          | 1.70E-02         | 1.27E-03          | 0.00E+00                |
| Oklahoma | Choctaw County       | 40023 | R                    | 4.71E-03                                                                | 4.73E-03 | 4.77E-03 | 1.68E-02 | 1.24E-02 | 1.68E-02 | 1.70E-02 | 1.71E-02 | 4.21E-12                         | 4.02E-03          | 7.76E-03         | 5.95E-04          | 0.00E+00                |
| Oklahoma | Cimarron County      | 40025 | R                    | 3.88E-04                                                                | 3.92E-04 | 4.04E-04 | 4.25E-04 | 1.11E-03 | 1.14E-03 | 1.58E-03 | 1.72E-03 | 0.00E+00                         | 7.10E-06          | 1.03E-03         | 7.45E-05          | 0.00E+00                |
| Oklahoma | Cleveland County     | 40027 | U                    | 0.00E+00                                                                | 2.06E-02 | 3.44E-02 | 5.47E-02 | 5.27E-02 | 6.61E-02 | 7.29E-02 | 7.66E-02 | 6.48E-05                         | 6.64E-04          | 4.20E-02         | 9.91E-03          | 0.00E+00                |
| Oklahoma | Coal County          | 40029 | R                    | 2.29E-03                                                                | 2.30E-03 | 2.32E-03 | 2.37E-03 | 2.40E-03 | 2.41E-03 | 2.44E-03 | 2.45E-03 | 1.48E-12                         | 9.28E-04          | 1.37E-03         | 1.05E-04          | 0.00E+00                |
| Oklahoma | Comanche County      | 40031 | U                    | 5.98E-03                                                                | 6.78E-03 | 2.10E-02 | 3.90E-02 | 2.95E-02 | 4.38E-02 | 4.69E-02 | 5.43E-02 | 9.99E-09                         | 3.77E-04          | 2.57E-02         | 3.47E-03          | 0.00E+00                |
| Oklahoma | Cotton County        | 40033 | R                    | 1.75E-03                                                                | 1.76E-03 | 1.82E-03 | 1.91E-03 | 1.97E-03 | 2.34E-03 | 2.60E-03 | 2.69E-03 | 0.00E+00                         | 1.65E-05          | 1.64E-03         | 3.07E-04          | 0.00E+00                |

| State    | County              | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|---------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                     |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                     |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Oklahoma | Craig County        | 40035 | R                    | 7.75E-03                                                                | 7.88E-03 | 8.24E-03 | 9.22E-03 | 2.58E-02 | 4.20E-02 | 4.21E-02 | 4.21E-02 | 2.22E-07                         | 1.86E-02          | 6.58E-03         | 5.98E-04          | 0.00E+00                |
| Oklahoma | Creek County        | 40037 | U                    | 8.92E-03                                                                | 9.63E-03 | 1.26E-02 | 1.90E-02 | 2.32E-02 | 2.81E-02 | 3.64E-02 | 4.83E-02 | 1.50E-05                         | 5.02E-03          | 1.54E-02         | 2.76E-03          | 0.00E+00                |
| Oklahoma | Custer County       | 40039 | U                    | 1.02E-03                                                                | 1.09E-03 | 1.42E-03 | 3.30E-03 | 4.28E-03 | 4.22E-03 | 6.08E-03 | 6.08E-03 | 3.88E-08                         | 2.00E-06          | 3.10E-03         | 1.18E-03          | 0.00E+00                |
| Oklahoma | Delaware County     | 40041 | R                    | 8.23E-03                                                                | 8.49E-03 | 8.96E-03 | 1.07E-02 | 1.06E-02 | 1.21E-02 | 1.34E-02 | 1.34E-02 | 3.05E-07                         | 2.51E-03          | 5.48E-03         | 2.63E-03          | 0.00E+00                |
| Oklahoma | Dewey County        | 40043 | R                    | 5.21E-04                                                                | 5.36E-04 | 5.80E-04 | 6.54E-04 | 6.39E-04 | 6.88E-04 | 7.08E-04 | 7.14E-04 | 0.00E+00                         | 1.92E-05          | 5.12E-04         | 1.08E-04          | 0.00E+00                |
| Oklahoma | Ellis County        | 40045 | R                    | 3.80E-04                                                                | 3.98E-04 | 4.52E-04 | 5.43E-04 | 5.72E-04 | 6.41E-04 | 7.01E-04 | 7.20E-04 | 0.00E+00                         | 5.37E-06          | 4.47E-04         | 1.19E-04          | 0.00E+00                |
| Oklahoma | Garfield County     | 40047 | U                    | 2.03E-03                                                                | 2.50E-03 | 4.53E-03 | 1.11E-02 | 1.30E-02 | 1.54E-02 | 2.44E-02 | 2.55E-02 | 2.33E-07                         | 1.80E-05          | 8.20E-03         | 4.81E-03          | 0.00E+00                |
| Oklahoma | Garvin County       | 40049 | R                    | 3.88E-03                                                                | 3.94E-03 | 4.14E-03 | 5.53E-03 | 6.64E-03 | 8.68E-03 | 9.81E-03 | 1.04E-02 | 1.33E-06                         | 1.61E-03          | 4.51E-03         | 5.16E-04          | 0.00E+00                |
| Oklahoma | Grady County        | 40051 | R                    | 3.15E-03                                                                | 3.48E-03 | 4.89E-03 | 1.34E-02 | 1.32E-02 | 2.31E-02 | 3.41E-02 | 4.03E-02 | 2.30E-05                         | 1.77E-04          | 1.19E-02         | 1.06E-03          | 0.00E+00                |
| Oklahoma | Grant County        | 40053 | R                    | 6.92E-04                                                                | 7.13E-04 | 7.77E-04 | 8.92E-04 | 9.20E-04 | 1.05E-03 | 1.19E-03 | 1.23E-03 | 2.45E-07                         | 6.65E-06          | 6.95E-04         | 2.17E-04          | 0.00E+00                |
| Oklahoma | Greer County        | 40055 | R                    | 1.61E-03                                                                | 1.61E-03 | 1.62E-03 | 1.63E-03 | 1.63E-03 | 1.63E-03 | 1.64E-03 | 1.64E-03 | 0.00E+00                         | 1.06E-05          | 1.33E-03         | 2.89E-04          | 0.00E+00                |
| Oklahoma | Harmon County       | 40057 | R                    | 8.02E-04                                                                | 8.07E-04 | 8.25E-04 | 8.55E-04 | 8.14E-04 | 8.84E-04 | 9.02E-04 | 9.08E-04 | 0.00E+00                         | 5.01E-07          | 6.40E-04         | 1.73E-04          | 0.00E+00                |
| Oklahoma | Harper County       | 40059 | R                    | 3.59E-04                                                                | 3.63E-04 | 3.77E-04 | 3.99E-04 | 4.01E-04 | 4.22E-04 | 4.35E-04 | 4.40E-04 | 0.00E+00                         | 4.11E-07          | 3.17E-04         | 8.40E-05          | 0.00E+00                |
| Oklahoma | Haskell County      | 40061 | R                    | 3.75E-03                                                                | 3.75E-03 | 3.76E-03 | 4.11E-03 | 4.13E-03 | 4.75E-03 | 5.30E-03 | 5.48E-03 | 1.10E-08                         | 1.72E-03          | 2.02E-03         | 3.87E-04          | 0.00E+00                |
| Oklahoma | Hughes County       | 40063 | R                    | 5.04E-03                                                                | 5.59E-03 | 7.23E-03 | 7.52E-03 | 1.61E-02 | 3.00E-02 | 3.02E-02 | 3.02E-02 | 1.26E-08                         | 1.13E-02          | 4.51E-03         | 3.18E-04          | 0.00E+00                |
| Oklahoma | Jackson County      | 40065 | U                    | 2.03E-03                                                                | 2.69E-03 | 4.73E-03 | 8.42E-03 | 1.15E-02 | 1.62E-02 | 1.93E-02 | 2.08E-02 | 0.00E+00                         | 1.62E-06          | 7.73E-03         | 3.75E-03          | 0.00E+00                |
| Oklahoma | Jefferson County    | 40067 | R                    | 1.10E-03                                                                | 1.14E-03 | 1.28E-03 | 1.51E-03 | 1.44E-03 | 1.60E-03 | 1.65E-03 | 1.67E-03 | 1.58E-09                         | 1.74E-04          | 1.07E-03         | 1.94E-04          | 0.00E+00                |
| Oklahoma | Johnston County     | 40069 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 3.70E-03 | 4.70E-03 | 4.91E-03 | 5.20E-03 | 5.29E-03 | 4.92E-09                         | 2.60E-03          | 1.81E-03         | 2.83E-04          | 0.00E+00                |
| Oklahoma | Kay County          | 40071 | U                    | 1.87E-03                                                                | 1.87E-03 | 2.37E-03 | 1.59E-02 | 1.39E-02 | 2.13E-02 | 2.23E-02 | 2.31E-02 | 1.26E-04                         | 7.42E-04          | 7.12E-03         | 5.94E-03          | 0.00E+00                |
| Oklahoma | Kingfisher County   | 40073 | R                    | 1.44E-03                                                                | 1.45E-03 | 1.47E-03 | 2.48E-03 | 3.01E-03 | 3.78E-03 | 4.35E-03 | 4.53E-03 | 1.76E-05                         | 1.29E-05          | 2.61E-03         | 3.63E-04          | 0.00E+00                |
| Oklahoma | Kiowa County        | 40075 | R                    | 1.06E-03                                                                | 1.08E-03 | 1.13E-03 | 1.14E-03 | 1.30E-03 | 1.41E-03 | 1.54E-03 | 1.59E-03 | 5.80E-08                         | 5.36E-06          | 1.11E-03         | 1.84E-04          | 0.00E+00                |
| Oklahoma | Latimer County      | 40077 | R                    | 5.93E-03                                                                | 6.07E-03 | 6.50E-03 | 7.20E-03 | 7.15E-03 | 7.83E-03 | 8.20E-03 | 8.33E-03 | 0.00E+00                         | 4.91E-03          | 2.08E-03         | 1.61E-04          | 0.00E+00                |
| Oklahoma | Le Flore County     | 40079 | R                    | 0.00E+00                                                                | 0.00E+00 | 1.41E-03 | 5.39E-03 | 1.48E-02 | 1.58E-02 | 2.96E-02 | 3.32E-02 | 0.00E+00                         | 7.80E-03          | 6.24E-03         | 7.82E-04          | 0.00E+00                |
| Oklahoma | Lincoln County      | 40081 | R                    | 3.92E-03                                                                | 4.07E-03 | 4.54E-03 | 4.82E-03 | 6.34E-03 | 8.32E-03 | 8.73E-03 | 8.99E-03 | 3.55E-06                         | 1.29E-03          | 4.43E-03         | 6.23E-04          | 0.00E+00                |
| Oklahoma | Logan County        | 40083 | U                    | 4.34E-03                                                                | 5.10E-03 | 1.19E-02 | 1.59E-02 | 1.65E-02 | 2.24E-02 | 2.45E-02 | 2.53E-02 | 1.70E-05                         | 8.99E-04          | 1.35E-02         | 2.07E-03          | 0.00E+00                |
| Oklahoma | Love County         | 40085 | R                    | 4.31E-03                                                                | 5.11E-03 | 7.54E-03 | 1.16E-02 | 9.95E-03 | 1.16E-02 | 1.17E-02 | 1.17E-02 | 1.08E-08                         | 5.47E-03          | 4.03E-03         | 4.58E-04          | 0.00E+00                |
| Oklahoma | McClain County      | 40087 | U                    | 5.83E-03                                                                | 6.31E-03 | 7.73E-03 | 1.03E-02 | 1.23E-02 | 1.42E-02 | 1.79E-02 | 1.91E-02 | 3.09E-05                         | 4.76E-04          | 9.85E-03         | 1.92E-03          | 0.00E+00                |
| Oklahoma | McCurain County     | 40089 | R                    | 4.81E-03                                                                | 5.91E-03 | 7.05E-03 | 1.87E-02 | 2.21E-02 | 2.71E-02 | 3.50E-02 | 3.51E-02 | 0.00E+00                         | 1.74E-02          | 4.26E-03         | 4.56E-04          | 0.00E+00                |
| Oklahoma | McIntosh County     | 40091 | R                    | 4.13E-03                                                                | 4.17E-03 | 4.33E-03 | 7.27E-03 | 7.53E-03 | 9.08E-03 | 9.43E-03 | 9.43E-03 | 2.15E-07                         | 1.71E-03          | 4.65E-03         | 1.17E-03          | 0.00E+00                |
| Oklahoma | Major County        | 40093 | R                    | 7.02E-04                                                                | 7.21E-04 | 7.78E-04 | 8.72E-04 | 1.17E-03 | 1.31E-03 | 1.58E-03 | 1.67E-03 | 2.13E-08                         | 2.63E-06          | 9.68E-04         | 1.97E-04          | 0.00E+00                |
| Oklahoma | Marshall County     | 40095 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 6.85E-03 | 1.44E-02 | 1.93E-02 | 1.98E-02 | 1.99E-02 | 3.91E-09                         | 5.46E-03          | 7.53E-03         | 1.39E-03          | 0.00E+00                |
| Oklahoma | Mayes County        | 40097 | R                    | 5.84E-03                                                                | 5.87E-03 | 7.51E-03 | 8.92E-03 | 1.63E-02 | 2.85E-02 | 3.58E-02 | 3.73E-02 | 1.92E-06                         | 2.43E-03          | 1.28E-02         | 1.08E-03          | 0.00E+00                |
| Oklahoma | Murray County       | 40099 | U                    | 4.27E-03                                                                | 4.59E-03 | 5.58E-03 | 7.22E-03 | 7.20E-03 | 8.60E-03 | 9.42E-03 | 9.70E-03 | 2.06E-07                         | 3.48E-03          | 3.19E-03         | 5.28E-04          | 0.00E+00                |
| Oklahoma | Muskogee County     | 40101 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.17E-03 | 1.18E-02 | 2.33E-02 | 3.17E-02 | 4.15E-02 | 4.36E-02 | 4.21E-07                         | 1.78E-03          | 1.72E-02         | 4.30E-03          | 0.00E+00                |
| Oklahoma | Noble County        | 40103 | R                    | 1.31E-03                                                                | 1.52E-03 | 2.16E-03 | 4.87E-03 | 5.04E-03 | 7.17E-03 | 7.18E-03 | 7.18E-03 | 2.86E-06                         | 1.09E-03          | 3.44E-03         | 5.14E-04          | 0.00E+00                |
| Oklahoma | Nowata County       | 40105 | R                    | 4.03E-03                                                                | 4.32E-03 | 5.17E-03 | 6.58E-03 | 7.67E-03 | 9.59E-03 | 9.74E-03 | 9.79E-03 | 1.34E-07                         | 3.61E-03          | 3.23E-03         | 8.32E-04          | 0.00E+00                |
| Oklahoma | Okfuskee County     | 40107 | R                    | 6.03E-03                                                                | 6.16E-03 | 6.53E-03 | 7.15E-03 | 1.00E-02 | 8.89E-03 | 1.38E-02 | 1.55E-02 | 3.39E-07                         | 6.46E-03          | 3.25E-03         | 3.15E-04          | 0.00E+00                |
| Oklahoma | Oklahoma County     | 40109 | U                    | 3.73E-02                                                                | 4.58E-02 | 6.04E-02 | 7.36E-02 | 7.24E-02 | 8.48E-02 | 9.97E-02 | 1.13E-01 | 1.35E-04                         | 3.58E-04          | 6.19E-02         | 1.00E-02          | 0.00E+00                |
| Oklahoma | Okmulgee County     | 40111 | U                    | 7.72E-03                                                                | 9.77E-03 | 1.25E-02 | 1.48E-02 | 2.74E-02 | 4.67E-02 | 5.37E-02 | 5.46E-02 | 3.51E-06                         | 1.32E-02          | 1.23E-02         | 1.96E-03          | 0.00E+00                |
| Oklahoma | Osage County        | 40113 | U                    | 3.50E-03                                                                | 3.90E-03 | 5.08E-03 | 7.02E-03 | 2.54E-02 | 2.13E-02 | 3.60E-02 | 8.04E-02 | 5.88E-05                         | 9.15E-03          | 1.35E-02         | 2.71E-03          | 0.00E+00                |
| Oklahoma | Ottawa County       | 40115 | R                    | 5.88E-03                                                                | 6.13E-03 | 6.71E-03 | 1.48E-02 | 1.47E-02 | 2.11E-02 | 3.05E-02 | 3.10E-02 | 0.00E+00                         | 2.04E-03          | 1.16E-02         | 1.08E-03          | 0.00E+00                |
| Oklahoma | Pawnee County       | 40117 | R                    | 4.89E-03                                                                | 6.43E-03 | 1.11E-02 | 1.37E-02 | 1.28E-02 | 1.52E-02 | 1.72E-02 | 1.78E-02 | 6.44E-06                         | 4.41E-03          | 7.09E-03         | 1.31E-03          | 0.00E+00                |
| Oklahoma | Payne County        | 40119 | U                    | 7.12E-03                                                                | 7.99E-03 | 9.97E-03 | 2.18E-02 | 1.92E-02 | 2.65E-02 | 3.38E-02 | 3.59E-02 | 3.22E-07                         | 2.31E-03          | 1.27E-02         | 4.14E-03          | 0.00E+00                |
| Oklahoma | Pittsburg County    | 40121 | R                    | 2.65E-03                                                                | 3.10E-03 | 3.99E-03 | 4.25E-03 | 1.14E-02 | 1.71E-02 | 2.46E-02 | 2.83E-02 | 1.99E-08                         | 1.26E-03          | 9.61E-03         | 4.92E-04          | 0.00E+00                |
| Oklahoma | Pontotoc County     | 40123 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 6.54E-03 | 3.33E-02 | 2.71E-02 | 7.26E-02 | 8.13E-02 | 3.18E-08                         | 1.77E-02          | 1.49E-02         | 6.83E-04          | 0.00E+00                |
| Oklahoma | Pottawatomie County | 40125 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 9.02E-03 | 1.47E-02 | 1.89E-02 | 2.45E-02 | 2.47E-02 | 2.49E-06                         | 2.34E-03          | 1.04E-02         | 1.95E-03          | 0.00E+00                |
| Oklahoma | Pushmataha County   | 40127 | R                    | 3.73E-03                                                                | 3.87E-03 | 4.28E-03 | 4.96E-03 | 4.35E-03 | 5.16E-03 | 5.27E-03 | 5.31E-03 | 0.00E+00                         | 3.15E-03          | 1.08E-03         | 1.24E-04          | 0.00E+00                |
| Oklahoma | Roger Mills County  | 40129 | R                    | 5.84E-04                                                                | 6.32E-04 | 7.75E-04 | 1.01E-03 | 7.82E-04 | 1.11E-03 | 1.17E-03 | 1.19E-03 | 0.00E+00                         | 3.71E-06          | 6.71E-04         | 1.08E-04          | 0.00E+00                |
| Oklahoma | Rogers County       | 40131 | U                    | 1.34E-02                                                                | 1.37E-02 | 1.73E-02 | 2.46E-02 | 3.12E-02 | 4.03E-02 | 6.08E-02 | 7.76E-02 | 6.39E-06                         | 6.82E-03          | 2.08E-02         | 3.52E-03          | 0.00E+00                |
| Oklahoma | Seminole County     | 40133 | R                    | 2.50E-03                                                                | 5.00E-03 | 7.28E-03 | 9.41E-03 | 1.20E-02 | 1.40E-02 | 1.54E-02 | 2.45E-02 | 1.06E-06                         | 5.58E-03          | 5.86E-03         | 5.35E-04          | 0.00E+00                |
| Oklahoma | Sequoyah County     | 40135 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.24E-02 | 1.13E-02 | 1.72E-02 | 1.77E-02 | 3.22E-09                         | 3.68E-03          | 7.76E-03         | 9.57E-04          | 0.00E+00                |
| Oklahoma | Stephens County     | 40137 | U                    | 2.65E-03                                                                | 3.08E-03 | 1.07E-02 | 1.71E-02 | 1.42E-02 | 2.39E-02 | 3.37E-02 | 3.64E-02 | 1.94E-06                         | 8.74E-04          | 1.07E-02         | 2.59E-03          | 0.00E+00                |

| State        | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                      |                  |                   |                         |
|--------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|----------------------|------------------|-------------------|-------------------------|
|              |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                      |                  |                   |                         |
|              |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area<br>and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Oklahoma     | Texas County         | 40139 | R                    | 5.81E-04                                                                | 5.89E-04 | 6.14E-04 | 3.47E-03 | 9.29E-03 | 1.71E-02 | 1.71E-02 | 1.72E-02 | 0.00E+00                         | 5.14E-06             | 8.89E-03         | 3.98E-04          | 0.00E+00                |
| Oklahoma     | Tillman County       | 40141 | R                    | 1.24E-03                                                                | 1.24E-03 | 1.30E-03 | 1.69E-03 | 2.90E-03 | 3.55E-03 | 4.12E-03 | 4.13E-03 | 0.00E+00                         | 3.10E-06             | 2.58E-03         | 3.21E-04          | 0.00E+00                |
| Oklahoma     | Tulsa County         | 40143 | U                    | 4.67E-02                                                                | 5.88E-02 | 7.83E-02 | 9.78E-02 | 9.58E-02 | 1.14E-01 | 1.31E-01 | 1.40E-01 | 7.01E-05                         | 1.91E-03             | 7.89E-02         | 1.49E-02          | 0.00E+00                |
| Oklahoma     | Wagoner County       | 40145 | U                    | 1.01E-02                                                                | 1.07E-02 | 1.78E-02 | 2.35E-02 | 2.83E-02 | 3.46E-02 | 3.81E-02 | 4.00E-02 | 8.99E-06                         | 5.15E-03             | 1.98E-02         | 3.38E-03          | 0.00E+00                |
| Oklahoma     | Washington County    | 40147 | U                    | 1.06E-02                                                                | 1.22E-02 | 1.55E-02 | 2.53E-02 | 2.78E-02 | 4.26E-02 | 4.50E-02 | 4.54E-02 | 1.48E-06                         | 8.80E-03             | 1.25E-02         | 6.41E-03          | 0.00E+00                |
| Oklahoma     | Washita County       | 40149 | R                    | 1.21E-03                                                                | 1.22E-03 | 1.27E-03 | 1.42E-03 | 1.40E-03 | 1.53E-03 | 1.54E-03 | 1.55E-03 | 0.00E+00                         | 4.00E-06             | 1.17E-03         | 2.22E-04          | 0.00E+00                |
| Oklahoma     | Woods County         | 40151 | U                    | 7.33E-04                                                                | 7.35E-04 | 7.40E-04 | 9.14E-04 | 3.63E-03 | 5.11E-03 | 5.14E-03 | 5.14E-03 | 0.00E+00                         | 8.04E-07             | 2.21E-03         | 1.42E-03          | 0.00E+00                |
| Oklahoma     | Woodward County      | 40153 | U                    | 2.20E-03                                                                | 3.33E-03 | 6.72E-03 | 9.94E-03 | 9.86E-03 | 1.30E-02 | 1.30E-02 | 1.31E-02 | 0.00E+00                         | 3.11E-05             | 6.02E-03         | 3.80E-03          | 0.00E+00                |
| Oregon       | Statewide            | 41000 | -                    | 0.00E+00                                                                | 7.34E-03 | 1.92E-02 | 3.91E-02 | 5.35E-02 | 7.20E-02 | 1.16E-01 | 1.34E-01 | 1.58E-07                         | 9.76E-03             | 3.09E-02         | 1.28E-02          | 0.00E+00                |
| Oregon       | State Urban Counties | 41000 | U                    | 0.00E+00                                                                | 1.14E-02 | 2.68E-02 | 4.87E-02 | 5.94E-02 | 8.40E-02 | 1.22E-01 | 1.39E-01 | 1.70E-07                         | 7.46E-03             | 3.66E-02         | 1.53E-02          | 0.00E+00                |
| Oregon       | State Rural Counties | 41000 | R                    | 0.00E+00                                                                | 4.70E-04 | 9.52E-03 | 1.99E-02 | 2.78E-02 | 3.45E-02 | 4.87E-02 | 6.27E-02 | 1.06E-07                         | 1.98E-02             | 6.16E-03         | 1.79E-03          | 0.00E+00                |
| Oregon       | Baker County         | 41001 | U                    | 4.01E-03                                                                | 4.62E-03 | 6.33E-03 | 2.27E-02 | 5.06E-02 | 8.94E-02 | 1.15E-01 | 1.20E-01 | 0.00E+00                         | 4.63E-02             | 2.43E-03         | 1.85E-03          | 0.00E+00                |
| Oregon       | Benton County        | 41003 | U                    | 1.22E-02                                                                | 1.47E-02 | 1.75E-02 | 3.01E-02 | 3.65E-02 | 4.23E-02 | 5.73E-02 | 6.32E-02 | 2.54E-08                         | 1.41E-02             | 1.25E-02         | 9.83E-03          | 0.00E+00                |
| Oregon       | Clackamas County     | 41005 | U                    | 2.72E-02                                                                | 3.21E-02 | 3.87E-02 | 4.74E-02 | 4.83E-02 | 5.78E-02 | 6.91E-02 | 7.10E-02 | 1.42E-09                         | 5.88E-03             | 2.93E-02         | 1.31E-02          | 0.00E+00                |
| Oregon       | Clatsop County       | 41007 | U                    | 6.48E-03                                                                | 1.18E-02 | 1.88E-02 | 2.50E-02 | 3.54E-02 | 4.57E-02 | 5.89E-02 | 6.05E-02 | 1.58E-06                         | 1.13E-02             | 5.07E-03         | 1.90E-02          | 0.00E+00                |
| Oregon       | Columbia County      | 41009 | U                    | 1.35E-02                                                                | 1.53E-02 | 1.72E-02 | 2.04E-02 | 2.77E-02 | 3.09E-02 | 4.39E-02 | 5.58E-02 | 1.75E-09                         | 1.24E-02             | 1.19E-02         | 3.48E-03          | 0.00E+00                |
| Oregon       | Coos County          | 41011 | U                    | 4.82E-03                                                                | 8.12E-03 | 1.31E-02 | 2.31E-02 | 3.20E-02 | 5.26E-02 | 5.96E-02 | 6.61E-02 | 9.64E-07                         | 1.91E-02             | 6.87E-03         | 5.98E-03          | 0.00E+00                |
| Oregon       | Crook County         | 41013 | R                    | 1.17E-02                                                                | 1.35E-02 | 1.90E-02 | 2.21E-02 | 2.08E-02 | 2.21E-02 | 2.21E-02 | 2.21E-02 | 0.00E+00                         | 1.84E-02             | 1.88E-03         | 4.70E-04          | 0.00E+00                |
| Oregon       | Curry County         | 41015 | R                    | 1.47E-03                                                                | 2.93E-03 | 7.33E-03 | 8.27E-03 | 1.49E-02 | 1.70E-02 | 2.10E-02 | 2.24E-02 | 7.37E-10                         | 1.16E-02             | 1.39E-03         | 1.88E-03          | 0.00E+00                |
| Oregon       | Deschutes County     | 41017 | R                    | 6.37E-03                                                                | 9.10E-03 | 1.77E-02 | 2.58E-02 | 3.21E-02 | 3.77E-02 | 6.26E-02 | 6.28E-02 | 6.42E-12                         | 1.87E-02             | 9.82E-03         | 3.65E-03          | 0.00E+00                |
| Oregon       | Douglas County       | 41019 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 9.57E-03 | 2.67E-02 | 2.60E-02 | 4.04E-02 | 4.32E-02 | 9.69E-08                         | 2.14E-02             | 4.27E-03         | 1.05E-03          | 0.00E+00                |
| Oregon       | Gilliam County       | 41021 | R                    | 4.99E-04                                                                | 4.99E-04 | 4.99E-04 | 4.99E-04 | 4.99E-04 | 4.99E-04 | 4.99E-04 | 4.99E-04 | 0.00E+00                         | 2.36E-04             | 1.70E-04         | 9.30E-05          | 0.00E+00                |
| Oregon       | Grant County         | 41023 | R                    | 1.44E-02                                                                | 1.44E-02 | 1.44E-02 | 1.44E-02 | 1.44E-02 | 1.44E-02 | 1.44E-02 | 1.44E-02 | 0.00E+00                         | 1.39E-02             | 4.17E-04         | 7.15E-05          | 0.00E+00                |
| Oregon       | Harney County        | 41025 | R                    | 1.57E-03                                                                | 1.85E-03 | 2.69E-03 | 4.09E-03 | 5.45E-03 | 5.49E-03 | 6.33E-03 | 6.61E-03 | 0.00E+00                         | 5.10E-03             | 1.88E-04         | 1.52E-04          | 0.00E+00                |
| Oregon       | Hood River County    | 41027 | R                    | 1.37E-02                                                                | 1.55E-02 | 2.11E-02 | 3.78E-02 | 3.62E-02 | 5.17E-02 | 5.22E-02 | 5.23E-02 | 1.34E-11                         | 2.59E-02             | 9.17E-03         | 1.14E-03          | 0.00E+00                |
| Oregon       | Jackson County       | 41029 | U                    | 1.27E-02                                                                | 1.45E-02 | 2.59E-02 | 4.00E-02 | 4.50E-02 | 4.56E-02 | 1.09E-01 | 1.25E-01 | 0.00E+00                         | 2.25E-02             | 1.48E-02         | 7.79E-03          | 0.00E+00                |
| Oregon       | Jefferson County     | 41031 | R                    | 9.64E-03                                                                | 9.76E-03 | 1.01E-02 | 1.08E-02 | 1.76E-02 | 1.52E-02 | 2.20E-02 | 2.42E-02 | 0.00E+00                         | 1.39E-02             | 3.06E-03         | 7.06E-04          | 0.00E+00                |
| Oregon       | Josephine County     | 41033 | R                    | 1.25E-02                                                                | 1.49E-02 | 1.86E-02 | 2.92E-02 | 3.34E-02 | 3.97E-02 | 4.62E-02 | 5.58E-02 | 1.85E-10                         | 2.20E-02             | 1.03E-02         | 1.10E-03          | 0.00E+00                |
| Oregon       | Klamath County       | 41035 | R                    | 1.18E-02                                                                | 1.22E-02 | 2.00E-02 | 4.13E-02 | 4.44E-02 | 5.95E-02 | 6.52E-02 | 7.31E-02 | 0.00E+00                         | 3.67E-02             | 6.78E-03         | 8.54E-04          | 0.00E+00                |
| Oregon       | Lake County          | 41037 | R                    | 4.61E-03                                                                | 4.80E-03 | 5.37E-03 | 6.33E-03 | 7.12E-03 | 7.28E-03 | 7.85E-03 | 8.04E-03 | 0.00E+00                         | 6.83E-03             | 1.40E-04         | 1.47E-04          | 0.00E+00                |
| Oregon       | Lane County          | 41039 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.49E-02 | 2.92E-02 | 3.34E-02 | 3.91E-02 | 4.52E-02 | 5.56E-02 | 8.27E-09                         | 9.12E-03             | 1.41E-02         | 1.01E-02          | 0.00E+00                |
| Oregon       | Lincoln County       | 41041 | R                    | 9.71E-03                                                                | 1.06E-02 | 1.64E-02 | 2.26E-02 | 2.38E-02 | 3.18E-02 | 3.36E-02 | 3.51E-02 | 1.19E-06                         | 1.34E-02             | 4.92E-03         | 5.42E-03          | 0.00E+00                |
| Oregon       | Linn County          | 41043 | U                    | 3.05E-04                                                                | 6.43E-03 | 1.19E-02 | 2.40E-02 | 3.52E-02 | 3.48E-02 | 4.76E-02 | 9.23E-02 | 7.35E-08                         | 1.78E-02             | 1.08E-02         | 6.69E-03          | 0.00E+00                |
| Oregon       | Malheur County       | 41045 | R                    | 1.38E-03                                                                | 2.29E-03 | 4.27E-03 | 6.46E-03 | 1.57E-02 | 2.02E-02 | 3.46E-02 | 3.46E-02 | 9.12E-09                         | 2.49E-03             | 1.16E-02         | 1.57E-03          | 0.00E+00                |
| Oregon       | Marion County        | 41047 | U                    | 0.00E+00                                                                | 0.00E+00 | 2.14E-02 | 3.43E-02 | 4.50E-02 | 5.26E-02 | 6.71E-02 | 6.91E-02 | 1.80E-08                         | 3.19E-03             | 2.82E-02         | 1.36E-02          | 0.00E+00                |
| Oregon       | Morrow County        | 41049 | R                    | 2.75E-03                                                                | 2.79E-03 | 2.89E-03 | 3.05E-03 | 3.00E-03 | 3.22E-03 | 3.32E-03 | 3.36E-03 | 0.00E+00                         | 1.13E-03             | 1.42E-03         | 4.44E-04          | 0.00E+00                |
| Oregon       | Multnomah County     | 41051 | U                    | 5.12E-02                                                                | 6.52E-02 | 7.97E-02 | 1.06E-01 | 1.06E-01 | 1.30E-01 | 1.46E-01 | 1.60E-01 | 5.71E-10                         | 2.29E-03             | 7.76E-02         | 2.60E-02          | 0.00E+00                |
| Oregon       | Polk County          | 41053 | U                    | 1.44E-02                                                                | 1.46E-02 | 1.69E-02 | 2.33E-02 | 2.66E-02 | 3.38E-02 | 4.63E-02 | 5.25E-02 | 2.54E-08                         | 8.80E-03             | 1.09E-02         | 6.97E-03          | 0.00E+00                |
| Oregon       | Sherman County       | 41055 | R                    | 8.81E-04                                                                | 8.81E-04 | 8.81E-04 | 8.81E-04 | 8.81E-04 | 8.81E-04 | 8.81E-04 | 8.81E-04 | 0.00E+00                         | 5.02E-04             | 2.82E-04         | 9.70E-05          | 0.00E+00                |
| Oregon       | Tillamook County     | 41057 | R                    | 1.09E-02                                                                | 1.16E-02 | 1.65E-02 | 2.22E-02 | 2.18E-02 | 3.22E-02 | 3.44E-02 | 3.51E-02 | 2.49E-09                         | 1.48E-02             | 3.19E-03         | 3.84E-03          | 0.00E+00                |
| Oregon       | Umatilla County      | 41059 | U                    | 3.30E-03                                                                | 4.14E-03 | 6.50E-03 | 1.01E-02 | 1.16E-02 | 1.45E-02 | 1.72E-02 | 2.20E-02 | 0.00E+00                         | 2.50E-03             | 5.94E-03         | 3.16E-03          | 0.00E+00                |
| Oregon       | Union County         | 41061 | R                    | 6.28E-03                                                                | 7.28E-03 | 1.69E-02 | 3.76E-02 | 4.19E-02 | 3.94E-02 | 7.42E-02 | 1.14E-01 | 0.00E+00                         | 3.66E-02             | 4.29E-03         | 9.87E-04          | 0.00E+00                |
| Oregon       | Wallowa County       | 41063 | R                    | 1.06E-02                                                                | 1.12E-02 | 1.28E-02 | 1.55E-02 | 1.66E-02 | 1.84E-02 | 2.02E-02 | 2.08E-02 | 0.00E+00                         | 1.58E-02             | 7.15E-04         | 1.20E-04          | 0.00E+00                |
| Oregon       | Wasco County         | 41065 | R                    | 9.25E-03                                                                | 1.42E-02 | 1.90E-02 | 2.40E-02 | 2.30E-02 | 2.81E-02 | 3.49E-02 | 3.76E-02 | 0.00E+00                         | 1.60E-02             | 6.15E-03         | 8.07E-04          | 0.00E+00                |
| Oregon       | Washington County    | 41067 | U                    | 3.14E-02                                                                | 3.41E-02 | 5.26E-02 | 6.34E-02 | 6.80E-02 | 7.93E-02 | 9.14E-02 | 1.06E-01 | 1.18E-08                         | 3.59E-03             | 4.42E-02         | 2.02E-02          | 0.00E+00                |
| Oregon       | Wheeler County       | 41069 | R                    | 3.52E-03                                                                | 3.52E-03 | 3.52E-03 | 3.52E-03 | 3.52E-03 | 3.52E-03 | 3.52E-03 | 3.52E-03 | 0.00E+00                         | 3.40E-03             | 1.03E-04         | 1.66E-05          | 0.00E+00                |
| Oregon       | Yamhill County       | 41071 | U                    | 1.11E-02                                                                | 1.18E-02 | 1.89E-02 | 3.17E-02 | 3.01E-02 | 3.65E-02 | 3.70E-02 | 3.85E-02 | 4.00E-06                         | 1.01E-02             | 1.56E-02         | 4.38E-03          | 0.00E+00                |
| Pennsylvania | Statewide            | 42000 | -                    | 8.55E-03                                                                | 1.34E-02 | 2.75E-02 | 5.02E-02 | 6.50E-02 | 8.07E-02 | 1.32E-01 | 1.73E-01 | 1.87E-05                         | 2.51E-03             | 4.82E-02         | 1.43E-02          | 0.00E+00                |
| Pennsylvania | State Urban Counties | 42000 | U                    | 1.52E-02                                                                | 2.19E-02 | 3.69E-02 | 5.79E-02 | 7.55E-02 | 9.07E-02 | 1.50E-01 | 1.84E-01 | 2.07E-05                         | 1.51E-03             | 5.69E-02         | 1.71E-02          | 0.00E+00                |
| Pennsylvania | State Rural Counties | 42000 | R                    | 6.63E-03                                                                | 7.37E-03 | 1.07E-02 | 1.73E-02 | 2.57E-02 | 3.79E-02 | 5.53E-02 | 6.46E-02 | 1.11E-05                         | 6.24E-03             | 1.54E-02         | 3.97E-03          | 0.00E+00                |
| Pennsylvania | Adams County         | 42001 | R                    | 0.00E+00                                                                | 1.21E-02 | 1.63E-02 | 1.85E-02 | 2.25E-02 | 2.86E-02 | 3.28E-02 | 3.37E-02 | 0.00E+00                         | 2.01E-03             | 1.53E-02         | 5.21E-03          | 0.00E+00                |
| Pennsylvania | Allegheny County     | 42003 | U                    | 0.00E+00                                                                | 3.55E-02 | 4.61E-02 | 5.95E-02 | 6.40E-02 | 7.93E-02 | 9.96E-02 | 1.14E-01 | 1.16E-04                         | 9.54E-04             | 4.43E-02         | 1.87E-02          | 0.00E+00                |

| State        | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|--------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|              |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|              |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Pennsylvania | Armstrong County     | 42005 | R                    | 8.78E-03                                                                | 9.10E-03 | 1.00E-02 | 1.57E-02 | 1.82E-02 | 2.78E-02 | 3.38E-02 | 3.73E-02 | 3.33E-06                         | 4.11E-03          | 1.17E-02         | 2.34E-03          | 0.00E+00                |
| Pennsylvania | Beaver County        | 42007 | U                    | 9.26E-03                                                                | 1.46E-02 | 1.77E-02 | 2.95E-02 | 2.99E-02 | 3.54E-02 | 4.83E-02 | 5.23E-02 | 1.31E-05                         | 2.09E-03          | 2.05E-02         | 7.30E-03          | 0.00E+00                |
| Pennsylvania | Bedford County       | 42009 | R                    | 5.97E-03                                                                | 6.60E-03 | 7.33E-03 | 8.53E-03 | 1.24E-02 | 1.04E-02 | 1.72E-02 | 3.89E-02 | 0.00E+00                         | 6.53E-03          | 5.12E-03         | 7.29E-04          | 0.00E+00                |
| Pennsylvania | Berks County         | 42011 | U                    | 2.24E-02                                                                | 2.65E-02 | 3.90E-02 | 6.54E-02 | 6.12E-02 | 9.26E-02 | 1.24E-01 | 1.43E-01 | 3.20E-08                         | 2.24E-03          | 4.17E-02         | 1.73E-02          | 0.00E+00                |
| Pennsylvania | Blair County         | 42013 | R                    | 1.55E-02                                                                | 1.66E-02 | 3.50E-02 | 5.54E-02 | 4.33E-02 | 6.28E-02 | 7.23E-02 | 7.37E-02 | 7.83E-09                         | 8.02E-03          | 3.16E-02         | 3.70E-03          | 0.00E+00                |
| Pennsylvania | Bradford County      | 42015 | R                    | 7.16E-03                                                                | 7.21E-03 | 7.57E-03 | 8.49E-03 | 1.47E-02 | 1.21E-02 | 3.08E-02 | 4.07E-02 | 1.91E-08                         | 6.71E-03          | 7.05E-03         | 9.03E-04          | 0.00E+00                |
| Pennsylvania | Bucks County         | 42017 | U                    | 2.71E-02                                                                | 3.10E-02 | 3.99E-02 | 5.14E-02 | 5.11E-02 | 5.89E-02 | 6.96E-02 | 7.83E-02 | 4.30E-07                         | 8.92E-04          | 3.64E-02         | 1.38E-02          | 0.00E+00                |
| Pennsylvania | Butler County        | 42019 | U                    | 1.41E-02                                                                | 1.45E-02 | 1.60E-02 | 2.14E-02 | 2.74E-02 | 3.41E-02 | 5.58E-02 | 6.25E-02 | 4.29E-06                         | 3.02E-03          | 1.61E-02         | 8.23E-03          | 0.00E+00                |
| Pennsylvania | Cambria County       | 42021 | R                    | 1.21E-02                                                                | 1.24E-02 | 1.56E-02 | 2.82E-02 | 2.43E-02 | 3.74E-02 | 4.30E-02 | 4.65E-02 | 1.39E-07                         | 4.47E-03          | 1.77E-02         | 2.13E-03          | 0.00E+00                |
| Pennsylvania | Cameron County       | 42023 | R                    | 1.32E-02                                                                | 2.01E-02 | 4.10E-02 | 7.58E-02 | 6.51E-02 | 1.11E-01 | 1.32E-01 | 1.39E-01 | 9.68E-13                         | 6.18E-02          | 2.66E-03         | 6.42E-04          | 0.00E+00                |
| Pennsylvania | Carbon County        | 42025 | U                    | 5.36E-03                                                                | 1.07E-02 | 1.22E-02 | 1.61E-02 | 2.26E-02 | 2.60E-02 | 4.32E-02 | 5.03E-02 | 2.46E-05                         | 6.57E-03          | 1.11E-02         | 4.94E-03          | 0.00E+00                |
| Pennsylvania | Centre County        | 42027 | R                    | 1.14E-02                                                                | 1.16E-02 | 1.61E-02 | 3.39E-02 | 3.65E-02 | 4.46E-02 | 6.18E-02 | 9.69E-02 | 0.00E+00                         | 5.24E-03          | 2.94E-02         | 1.90E-03          | 0.00E+00                |
| Pennsylvania | Chester County       | 42029 | U                    | 1.79E-02                                                                | 2.04E-02 | 2.54E-02 | 3.31E-02 | 3.76E-02 | 4.20E-02 | 6.11E-02 | 6.66E-02 | 1.66E-07                         | 1.36E-03          | 2.74E-02         | 8.82E-03          | 0.00E+00                |
| Pennsylvania | Clarion County       | 42031 | R                    | 6.87E-03                                                                | 7.00E-03 | 7.10E-03 | 8.47E-03 | 1.60E-02 | 1.07E-02 | 2.15E-02 | 3.89E-02 | 1.54E-07                         | 8.89E-03          | 6.37E-03         | 7.50E-04          | 0.00E+00                |
| Pennsylvania | Clearfield County    | 42033 | R                    | 6.97E-03                                                                | 7.34E-03 | 8.05E-03 | 1.06E-02 | 1.92E-02 | 2.85E-02 | 4.21E-02 | 4.56E-02 | 0.00E+00                         | 8.95E-03          | 8.87E-03         | 1.42E-03          | 0.00E+00                |
| Pennsylvania | Clinton County       | 42035 | R                    | 8.84E-03                                                                | 1.01E-02 | 1.60E-02 | 2.22E-02 | 3.22E-02 | 4.89E-02 | 5.47E-02 | 6.05E-02 | 0.00E+00                         | 1.86E-02          | 1.23E-02         | 1.28E-03          | 0.00E+00                |
| Pennsylvania | Columbia County      | 42037 | U                    | 1.21E-02                                                                | 1.27E-02 | 1.38E-02 | 1.58E-02 | 3.07E-02 | 3.95E-02 | 7.07E-02 | 7.49E-02 | 1.40E-07                         | 5.30E-03          | 1.98E-02         | 5.57E-03          | 0.00E+00                |
| Pennsylvania | Crawford County      | 42039 | R                    | 5.80E-03                                                                | 6.12E-03 | 6.60E-03 | 7.26E-03 | 1.20E-02 | 1.29E-02 | 2.44E-02 | 3.59E-02 | 8.80E-07                         | 3.31E-03          | 7.72E-03         | 1.01E-03          | 0.00E+00                |
| Pennsylvania | Cumberland County    | 42041 | U                    | 2.80E-02                                                                | 2.93E-02 | 4.43E-02 | 5.48E-02 | 5.31E-02 | 7.65E-02 | 8.78E-02 | 1.23E-01 | 0.00E+00                         | 2.04E-03          | 3.93E-02         | 1.18E-02          | 0.00E+00                |
| Pennsylvania | Dauphin County       | 42043 | U                    | 3.14E-02                                                                | 3.76E-02 | 5.22E-02 | 8.57E-02 | 7.68E-02 | 1.00E-01 | 1.45E-01 | 1.71E-01 | 5.74E-10                         | 2.21E-03          | 5.59E-02         | 1.86E-02          | 0.00E+00                |
| Pennsylvania | Delaware County      | 42045 | U                    | 4.52E-02                                                                | 5.08E-02 | 6.01E-02 | 7.82E-02 | 7.96E-02 | 9.38E-02 | 1.14E-01 | 1.25E-01 | 9.41E-07                         | 3.66E-04          | 5.83E-02         | 2.10E-02          | 0.00E+00                |
| Pennsylvania | Elk County           | 42047 | U                    | 7.12E-03                                                                | 7.47E-03 | 7.90E-03 | 1.18E-02 | 2.30E-02 | 2.66E-02 | 4.35E-02 | 4.58E-02 | 4.62E-11                         | 1.48E-02          | 5.95E-03         | 2.24E-03          | 0.00E+00                |
| Pennsylvania | Erie County          | 42049 | U                    | 1.29E-02                                                                | 1.45E-02 | 2.28E-02 | 3.38E-02 | 3.63E-02 | 4.90E-02 | 6.20E-02 | 7.15E-02 | 1.01E-05                         | 1.89E-03          | 2.21E-02         | 1.23E-02          | 0.00E+00                |
| Pennsylvania | Fayette County       | 42051 | U                    | 1.28E-02                                                                | 1.44E-02 | 1.56E-02 | 2.37E-02 | 2.55E-02 | 3.64E-02 | 5.04E-02 | 5.42E-02 | 7.21E-06                         | 3.80E-03          | 1.69E-02         | 4.86E-03          | 0.00E+00                |
| Pennsylvania | Forest County        | 42053 | R                    | 5.78E-03                                                                | 5.81E-03 | 5.91E-03 | 6.08E-03 | 6.03E-03 | 6.25E-03 | 6.35E-03 | 6.38E-03 | 7.29E-09                         | 4.55E-03          | 1.26E-03         | 2.22E-04          | 0.00E+00                |
| Pennsylvania | Franklin County      | 42055 | R                    | 1.53E-02                                                                | 1.54E-02 | 1.65E-02 | 1.98E-02 | 2.64E-02 | 4.54E-02 | 4.83E-02 | 5.10E-02 | 0.00E+00                         | 2.78E-03          | 1.94E-02         | 4.22E-03          | 0.00E+00                |
| Pennsylvania | Fulton County        | 42057 | R                    | 7.05E-03                                                                | 7.07E-03 | 7.13E-03 | 7.22E-03 | 7.91E-03 | 8.48E-03 | 9.23E-03 | 9.48E-03 | 0.00E+00                         | 3.59E-03          | 3.56E-03         | 7.57E-04          | 0.00E+00                |
| Pennsylvania | Greene County        | 42059 | R                    | 8.72E-03                                                                | 9.31E-03 | 1.02E-02 | 1.11E-02 | 1.64E-02 | 1.36E-02 | 2.72E-02 | 4.31E-02 | 2.08E-06                         | 6.18E-03          | 8.80E-03         | 1.41E-03          | 0.00E+00                |
| Pennsylvania | Huntingdon County    | 42061 | R                    | 4.65E-03                                                                | 7.42E-03 | 8.65E-03 | 1.05E-02 | 1.71E-02 | 1.31E-02 | 3.20E-02 | 4.21E-02 | 0.00E+00                         | 8.04E-03          | 8.08E-03         | 9.72E-04          | 0.00E+00                |
| Pennsylvania | Indiana County       | 42063 | R                    | 8.53E-03                                                                | 9.23E-03 | 1.01E-02 | 1.07E-02 | 1.84E-02 | 1.43E-02 | 3.80E-02 | 4.65E-02 | 7.66E-07                         | 3.93E-03          | 1.31E-02         | 1.39E-03          | 0.00E+00                |
| Pennsylvania | Jefferson County     | 42065 | R                    | 7.55E-03                                                                | 7.99E-03 | 1.10E-02 | 1.48E-02 | 2.73E-02 | 4.34E-02 | 9.64E-02 | 1.10E-01 | 3.65E-08                         | 1.62E-02          | 9.84E-03         | 1.30E-03          | 0.00E+00                |
| Pennsylvania | Juniata County       | 42067 | R                    | 1.02E-02                                                                | 1.04E-02 | 1.09E-02 | 1.37E-02 | 1.35E-02 | 1.63E-02 | 1.65E-02 | 1.65E-02 | 0.00E+00                         | 4.59E-03          | 7.45E-03         | 1.42E-03          | 0.00E+00                |
| Pennsylvania | Lackawanna County    | 42069 | U                    | 2.50E-02                                                                | 3.21E-02 | 4.62E-02 | 6.97E-02 | 6.58E-02 | 9.56E-02 | 1.08E-01 | 1.26E-01 | 4.41E-06                         | 5.40E-03          | 4.67E-02         | 1.37E-02          | 0.00E+00                |
| Pennsylvania | Lancaster County     | 42071 | U                    | 2.17E-02                                                                | 2.27E-02 | 2.63E-02 | 4.57E-02 | 5.11E-02 | 6.80E-02 | 1.08E-01 | 1.24E-01 | 2.59E-09                         | 6.05E-04          | 3.61E-02         | 1.44E-02          | 0.00E+00                |
| Pennsylvania | Lawrence County      | 42073 | R                    | 1.42E-02                                                                | 1.46E-02 | 1.59E-02 | 2.06E-02 | 2.46E-02 | 3.42E-02 | 3.90E-02 | 4.07E-02 | 3.60E-06                         | 2.90E-03          | 1.87E-02         | 3.02E-03          | 0.00E+00                |
| Pennsylvania | Lebanon County       | 42075 | U                    | 1.73E-02                                                                | 1.79E-02 | 1.91E-02 | 2.92E-02 | 3.84E-02 | 5.05E-02 | 6.41E-02 | 7.14E-02 | 4.09E-09                         | 1.49E-03          | 2.84E-02         | 8.46E-03          | 0.00E+00                |
| Pennsylvania | Lehigh County        | 42077 | U                    | 2.80E-02                                                                | 3.46E-02 | 4.49E-02 | 6.29E-02 | 7.03E-02 | 8.23E-02 | 1.40E-01 | 1.55E-01 | 3.93E-06                         | 1.21E-03          | 4.49E-02         | 2.42E-02          | 0.00E+00                |
| Pennsylvania | Luzerne County       | 42079 | U                    | 2.20E-02                                                                | 2.42E-02 | 3.46E-02 | 5.71E-02 | 6.03E-02 | 8.02E-02 | 1.10E-01 | 1.23E-01 | 9.28E-06                         | 3.87E-03          | 4.00E-02         | 1.65E-02          | 0.00E+00                |
| Pennsylvania | Lycoming County      | 42081 | R                    | 1.36E-02                                                                | 1.45E-02 | 1.83E-02 | 3.43E-02 | 3.37E-02 | 4.85E-02 | 5.65E-02 | 6.05E-02 | 3.03E-10                         | 7.05E-03          | 2.50E-02         | 1.66E-03          | 0.00E+00                |
| Pennsylvania | Mc Kean County       | 42083 | R                    | 5.87E-03                                                                | 5.90E-03 | 6.27E-03 | 1.33E-02 | 1.74E-02 | 2.34E-02 | 4.31E-02 | 5.04E-02 | 1.29E-09                         | 1.01E-02          | 6.69E-03         | 6.00E-04          | 0.00E+00                |
| Pennsylvania | Mercer County        | 42085 | R                    | 1.06E-02                                                                | 1.15E-02 | 1.50E-02 | 2.44E-02 | 2.31E-02 | 3.49E-02 | 3.96E-02 | 4.32E-02 | 1.96E-04                         | 2.46E-03          | 1.81E-02         | 2.29E-03          | 0.00E+00                |
| Pennsylvania | Mifflin County       | 42087 | R                    | 1.06E-02                                                                | 1.11E-02 | 1.28E-02 | 1.63E-02 | 2.11E-02 | 3.75E-02 | 4.26E-02 | 4.43E-02 | 0.00E+00                         | 5.77E-03          | 1.40E-02         | 1.36E-03          | 0.00E+00                |
| Pennsylvania | Monroe County        | 42089 | R                    | 5.66E-02                                                                | 5.76E-02 | 5.91E-02 | 8.88E-02 | 7.60E-02 | 1.10E-01 | 1.22E-01 | 1.68E-01 | 2.97E-05                         | 6.79E-03          | 1.74E-02         | 5.19E-02          | 0.00E+00                |
| Pennsylvania | Montgomery County    | 42091 | U                    | 4.26E-02                                                                | 4.63E-02 | 5.65E-02 | 6.80E-02 | 7.18E-02 | 8.39E-02 | 1.02E-01 | 1.12E-01 | 3.17E-07                         | 7.94E-04          | 4.83E-02         | 2.27E-02          | 0.00E+00                |
| Pennsylvania | Montour County       | 42093 | R                    | 1.09E-02                                                                | 1.11E-02 | 1.16E-02 | 2.04E-02 | 2.34E-02 | 3.15E-02 | 3.59E-02 | 3.74E-02 | 1.54E-09                         | 4.46E-03          | 1.62E-02         | 2.75E-03          | 0.00E+00                |
| Pennsylvania | Northampton County   | 42095 | U                    | 2.68E-02                                                                | 2.80E-02 | 3.37E-02 | 4.97E-02 | 5.22E-02 | 6.41E-02 | 8.52E-02 | 9.56E-02 | 4.96E-06                         | 1.65E-03          | 3.59E-02         | 1.46E-02          | 0.00E+00                |
| Pennsylvania | Northumberland Count | 42097 | R                    | 1.27E-02                                                                | 1.28E-02 | 1.38E-02 | 3.10E-02 | 3.46E-02 | 4.96E-02 | 7.30E-02 | 7.68E-02 | 2.55E-08                         | 9.16E-03          | 2.27E-02         | 2.74E-03          | 0.00E+00                |
| Pennsylvania | Perry County         | 42099 | U                    | 4.64E-03                                                                | 9.27E-03 | 1.19E-02 | 1.70E-02 | 2.01E-02 | 2.11E-02 | 2.86E-02 | 3.43E-02 | 0.00E+00                         | 3.12E-03          | 1.28E-02         | 4.23E-03          | 0.00E+00                |
| Pennsylvania | Philadelphia County  | 42101 | U                    | 8.36E-02                                                                | 1.00E-01 | 1.25E-01 | 1.61E-01 | 1.79E-01 | 1.93E-01 | 2.35E-01 | 2.52E-01 | 1.74E-06                         | 3.08E-04          | 1.52E-01         | 2.69E-02          | 0.00E+00                |
| Pennsylvania | Pike County          | 42103 | U                    | 1.01E-02                                                                | 1.03E-02 | 1.09E-02 | 1.13E-02 | 1.31E-02 | 1.93E-02 | 2.11E-02 | 2.29E-02 | 1.17E-06                         | 3.73E-03          | 5.56E-03         | 3.77E-03          | 0.00E+00                |
| Pennsylvania | Potter County        | 42105 | R                    | 5.35E-03                                                                | 5.48E-03 | 5.87E-03 | 7.34E-03 | 8.28E-03 | 7.83E-03 | 1.14E-02 | 1.26E-02 | 3.35E-08                         | 6.41E-03          | 1.58E-03         | 2.92E-04          | 0.00E+00                |
| Pennsylvania | Schuylkill County    | 42107 | R                    | 1.27E-02                                                                | 1.31E-02 | 1.48E-02 | 2.17E-02 | 2.95E-02 | 3.68E-02 | 4.78E-02 | 6.44E-02 | 1.52E-06                         | 8.06E-03          | 1.88E-02         | 2.63E-03          | 0.00E+00                |

| State          | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                      |                  |                   |                         |
|----------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|----------------------|------------------|-------------------|-------------------------|
|                |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                      |                  |                   |                         |
|                |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area<br>and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Pennsylvania   | Snyder County        | 42109 | R                    | 1.12E-02                                                                | 1.12E-02 | 1.30E-02 | 1.49E-02 | 1.87E-02 | 2.18E-02 | 2.63E-02 | 2.96E-02 | 9.27E-09                         | 3.48E-03             | 1.34E-02         | 1.84E-03          | 0.00E+00                |
| Pennsylvania   | Somerset County      | 42111 | R                    | 0.00E+00                                                                | 1.16E-03 | 6.23E-03 | 7.23E-03 | 1.02E-02 | 9.28E-03 | 2.04E-02 | 2.46E-02 | 1.28E-07                         | 3.53E-03             | 5.82E-03         | 8.46E-04          | 0.00E+00                |
| Pennsylvania   | Sullivan County      | 42113 | R                    | 7.15E-03                                                                | 7.15E-03 | 7.17E-03 | 7.21E-03 | 7.21E-03 | 7.24E-03 | 7.26E-03 | 7.27E-03 | 0.00E+00                         | 4.87E-03             | 1.97E-03         | 3.72E-04          | 0.00E+00                |
| Pennsylvania   | Susquehanna County   | 42115 | R                    | 8.09E-03                                                                | 8.27E-03 | 8.87E-03 | 1.02E-02 | 1.06E-02 | 1.25E-02 | 1.36E-02 | 1.41E-02 | 9.39E-08                         | 3.43E-03             | 5.78E-03         | 1.40E-03          | 0.00E+00                |
| Pennsylvania   | Tioga County         | 42117 | R                    | 6.18E-03                                                                | 6.80E-03 | 7.83E-03 | 1.06E-02 | 1.22E-02 | 1.47E-02 | 1.68E-02 | 2.40E-02 | 1.72E-09                         | 6.67E-03             | 4.79E-03         | 7.35E-04          | 0.00E+00                |
| Pennsylvania   | Union County         | 42119 | R                    | 1.13E-02                                                                | 1.17E-02 | 1.34E-02 | 1.50E-02 | 2.45E-02 | 3.59E-02 | 5.14E-02 | 5.32E-02 | 0.00E+00                         | 5.79E-03             | 1.63E-02         | 2.40E-03          | 0.00E+00                |
| Pennsylvania   | Venango County       | 42121 | R                    | 8.96E-03                                                                | 9.24E-03 | 9.48E-03 | 1.93E-02 | 2.22E-02 | 4.30E-02 | 4.59E-02 | 4.86E-02 | 5.15E-08                         | 1.04E-02             | 1.04E-02         | 1.34E-03          | 0.00E+00                |
| Pennsylvania   | Warren County        | 42123 | R                    | 6.26E-03                                                                | 6.81E-03 | 7.43E-03 | 9.01E-03 | 1.78E-02 | 1.76E-02 | 4.08E-02 | 4.32E-02 | 2.02E-07                         | 9.37E-03             | 7.52E-03         | 8.67E-04          | 0.00E+00                |
| Pennsylvania   | Washington County    | 42125 | U                    | 1.31E-02                                                                | 1.33E-02 | 1.65E-02 | 2.53E-02 | 2.68E-02 | 4.23E-02 | 5.77E-02 | 6.17E-02 | 3.57E-05                         | 2.78E-03             | 1.71E-02         | 6.87E-03          | 0.00E+00                |
| Pennsylvania   | Wayne County         | 42127 | R                    | 5.14E-03                                                                | 8.26E-03 | 1.13E-02 | 1.19E-02 | 1.41E-02 | 1.35E-02 | 1.74E-02 | 2.10E-02 | 2.44E-06                         | 4.32E-03             | 6.93E-03         | 2.81E-03          | 0.00E+00                |
| Pennsylvania   | Westmoreland County  | 42129 | U                    | 1.52E-02                                                                | 1.80E-02 | 2.23E-02 | 3.29E-02 | 3.18E-02 | 4.49E-02 | 5.78E-02 | 6.42E-02 | 3.82E-05                         | 2.32E-03             | 1.96E-02         | 9.84E-03          | 0.00E+00                |
| Pennsylvania   | Wyoming County       | 42131 | U                    | 1.21E-02                                                                | 1.30E-02 | 1.46E-02 | 1.73E-02 | 1.82E-02 | 2.16E-02 | 2.58E-02 | 2.60E-02 | 2.43E-07                         | 5.20E-03             | 1.07E-02         | 2.32E-03          | 0.00E+00                |
| Pennsylvania   | York County          | 42133 | U                    | 2.42E-02                                                                | 2.52E-02 | 3.02E-02 | 4.07E-02 | 4.60E-02 | 6.66E-02 | 9.68E-02 | 1.22E-01 | 3.37E-12                         | 1.21E-03             | 3.53E-02         | 9.44E-03          | 0.00E+00                |
| Rhode Island   | Statewide            | 44000 | -                    | 1.47E-02                                                                | 2.05E-02 | 3.39E-02 | 5.40E-02 | 5.30E-02 | 7.10E-02 | 8.67E-02 | 9.81E-02 | 9.16E-08                         | 1.61E-03             | 4.08E-02         | 1.06E-02          | 0.00E+00                |
| Rhode Island   | State Urban Counties | 44000 | U                    | 1.47E-02                                                                | 2.05E-02 | 3.39E-02 | 5.40E-02 | 5.30E-02 | 7.10E-02 | 8.67E-02 | 9.81E-02 | 9.16E-08                         | 1.61E-03             | 4.08E-02         | 1.06E-02          | 0.00E+00                |
| Rhode Island   | Bristol County       | 44001 | U                    | 3.24E-02                                                                | 3.43E-02 | 3.47E-02 | 4.89E-02 | 4.98E-02 | 5.98E-02 | 6.34E-02 | 6.97E-02 | 5.31E-10                         | 1.63E-03             | 3.82E-02         | 9.91E-03          | 0.00E+00                |
| Rhode Island   | Kent County          | 44003 | U                    | 2.70E-02                                                                | 2.94E-02 | 3.29E-02 | 4.33E-02 | 4.81E-02 | 6.19E-02 | 6.83E-02 | 8.20E-02 | 3.91E-08                         | 1.70E-03             | 3.14E-02         | 1.50E-02          | 0.00E+00                |
| Rhode Island   | Newport County       | 44005 | U                    | 1.03E-02                                                                | 1.64E-02 | 2.38E-02 | 3.31E-02 | 3.96E-02 | 4.75E-02 | 5.90E-02 | 6.39E-02 | 2.80E-09                         | 1.39E-03             | 2.84E-02         | 9.84E-03          | 0.00E+00                |
| Rhode Island   | Providence County    | 44007 | U                    | 3.19E-02                                                                | 3.81E-02 | 5.16E-02 | 6.50E-02 | 6.26E-02 | 8.06E-02 | 8.98E-02 | 1.02E-01 | 3.52E-09                         | 1.44E-03             | 5.06E-02         | 1.06E-02          | 0.00E+00                |
| Rhode Island   | Washington County    | 44009 | U                    | 2.65E-03                                                                | 1.11E-02 | 1.29E-02 | 1.72E-02 | 2.01E-02 | 2.27E-02 | 2.70E-02 | 4.21E-02 | 7.56E-07                         | 2.53E-03             | 1.22E-02         | 5.45E-03          | 0.00E+00                |
| South Carolina | Statewide            | 45000 | -                    | 1.04E-02                                                                | 1.26E-02 | 1.90E-02 | 3.48E-02 | 4.01E-02 | 5.73E-02 | 7.59E-02 | 8.61E-02 | 2.78E-06                         | 8.58E-03             | 2.53E-02         | 6.23E-03          | 0.00E+00                |
| South Carolina | State Urban Counties | 45000 | U                    | 1.28E-02                                                                | 1.98E-02 | 2.97E-02 | 4.82E-02 | 4.88E-02 | 6.60E-02 | 8.18E-02 | 9.43E-02 | 4.33E-06                         | 7.25E-03             | 3.27E-02         | 8.87E-03          | 0.00E+00                |
| South Carolina | State Rural Counties | 45000 | R                    | 9.72E-03                                                                | 1.09E-02 | 1.39E-02 | 1.91E-02 | 2.70E-02 | 3.19E-02 | 5.38E-02 | 6.44E-02 | 4.55E-07                         | 1.06E-02             | 1.41E-02         | 2.24E-03          | 0.00E+00                |
| South Carolina | Abbeville County     | 45001 | R                    | 1.32E-02                                                                | 1.33E-02 | 1.36E-02 | 1.44E-02 | 1.85E-02 | 2.14E-02 | 2.37E-02 | 2.38E-02 | 0.00E+00                         | 1.06E-02             | 7.13E-03         | 7.73E-04          | 0.00E+00                |
| South Carolina | Aiken County         | 45003 | U                    | 1.66E-02                                                                | 1.82E-02 | 1.99E-02 | 3.66E-02 | 3.80E-02 | 4.96E-02 | 5.72E-02 | 6.22E-02 | 0.00E+00                         | 1.14E-02             | 2.24E-02         | 4.10E-03          | 0.00E+00                |
| South Carolina | Allendale County     | 45005 | U                    | 1.57E-02                                                                | 1.59E-02 | 1.66E-02 | 1.72E-02 | 1.99E-02 | 2.00E-02 | 1.16E-01 | 1.47E-01 | 0.00E+00                         | 1.50E-02             | 4.29E-03         | 5.75E-04          | 0.00E+00                |
| South Carolina | Anderson County      | 45007 | U                    | 1.79E-02                                                                | 2.02E-02 | 2.33E-02 | 3.23E-02 | 3.33E-02 | 4.44E-02 | 5.01E-02 | 5.37E-02 | 5.39E-10                         | 5.27E-03             | 2.38E-02         | 4.19E-03          | 0.00E+00                |
| South Carolina | Bamberg County       | 45009 | R                    | 1.92E-03                                                                | 3.83E-03 | 9.58E-03 | 9.71E-03 | 1.00E-02 | 9.73E-03 | 1.02E-02 | 1.04E-02 | 0.00E+00                         | 6.14E-03             | 3.45E-03         | 4.14E-04          | 0.00E+00                |
| South Carolina | Barnwell County      | 45011 | U                    | 0.00E+00                                                                | 0.00E+00 | 3.98E-03 | 1.16E-02 | 1.64E-02 | 1.63E-02 | 2.41E-02 | 2.73E-02 | 0.00E+00                         | 1.15E-02             | 4.19E-03         | 6.82E-04          | 0.00E+00                |
| South Carolina | Beaufort County      | 45013 | R                    | 1.11E-02                                                                | 1.23E-02 | 1.33E-02 | 1.68E-02 | 1.76E-02 | 2.19E-02 | 2.41E-02 | 2.68E-02 | 0.00E+00                         | 4.07E-03             | 8.04E-03         | 5.50E-03          | 0.00E+00                |
| South Carolina | Berkeley County      | 45015 | U                    | 1.25E-02                                                                | 1.47E-02 | 1.94E-02 | 3.82E-02 | 3.56E-02 | 4.38E-02 | 5.52E-02 | 5.77E-02 | 5.27E-11                         | 1.01E-02             | 2.01E-02         | 5.49E-03          | 0.00E+00                |
| South Carolina | Calhoun County       | 45017 | R                    | 8.56E-03                                                                | 8.77E-03 | 9.41E-03 | 1.18E-02 | 1.39E-02 | 1.50E-02 | 1.71E-02 | 1.77E-02 | 0.00E+00                         | 6.17E-03             | 6.60E-03         | 1.09E-03          | 0.00E+00                |
| South Carolina | Charleston County    | 45019 | U                    | 0.00E+00                                                                | 9.91E-03 | 2.97E-02 | 5.23E-02 | 5.41E-02 | 6.87E-02 | 8.05E-02 | 9.52E-02 | 5.23E-11                         | 3.71E-03             | 3.49E-02         | 1.55E-02          | 0.00E+00                |
| South Carolina | Cherokee County      | 45021 | U                    | 1.82E-02                                                                | 1.84E-02 | 1.91E-02 | 3.43E-02 | 3.89E-02 | 4.29E-02 | 5.90E-02 | 6.71E-02 | 1.48E-06                         | 1.37E-02             | 2.13E-02         | 3.96E-03          | 0.00E+00                |
| South Carolina | Chester County       | 45023 | R                    | 1.73E-02                                                                | 1.78E-02 | 2.20E-02 | 2.82E-02 | 4.17E-02 | 5.46E-02 | 7.96E-02 | 9.37E-02 | 6.16E-06                         | 2.32E-02             | 1.68E-02         | 1.72E-03          | 0.00E+00                |
| South Carolina | Chesterfield County  | 45025 | R                    | 1.07E-02                                                                | 1.10E-02 | 1.16E-02 | 1.24E-02 | 1.70E-02 | 1.72E-02 | 2.61E-02 | 2.62E-02 | 1.29E-07                         | 9.73E-03             | 6.54E-03         | 7.38E-04          | 0.00E+00                |
| South Carolina | Clarendon County     | 45027 | R                    | 9.01E-03                                                                | 9.78E-03 | 1.13E-02 | 1.19E-02 | 1.29E-02 | 1.32E-02 | 1.63E-02 | 1.89E-02 | 1.24E-10                         | 6.22E-03             | 5.84E-03         | 8.35E-04          | 0.00E+00                |
| South Carolina | Colleton County      | 45029 | R                    | 3.45E-03                                                                | 6.91E-03 | 1.05E-02 | 1.28E-02 | 2.16E-02 | 1.60E-02 | 2.72E-02 | 4.63E-02 | 0.00E+00                         | 1.35E-02             | 6.78E-03         | 1.33E-03          | 0.00E+00                |
| South Carolina | Darlington County    | 45031 | R                    | 1.04E-02                                                                | 1.38E-02 | 1.64E-02 | 2.70E-02 | 3.27E-02 | 4.48E-02 | 6.04E-02 | 7.16E-02 | 1.46E-09                         | 1.09E-02             | 1.86E-02         | 3.15E-03          | 0.00E+00                |
| South Carolina | Dillon County        | 45033 | R                    | 1.15E-02                                                                | 1.17E-02 | 1.29E-02 | 2.40E-02 | 3.08E-02 | 4.41E-02 | 5.15E-02 | 5.33E-02 | 1.50E-07                         | 1.53E-02             | 1.43E-02         | 1.12E-03          | 0.00E+00                |
| South Carolina | Dorchester County    | 45035 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.76E-02 | 2.93E-02 | 3.57E-02 | 3.70E-02 | 4.94E-02 | 5.13E-02 | 0.00E+00                         | 8.81E-03             | 2.10E-02         | 5.81E-03          | 0.00E+00                |
| South Carolina | Edgefield County     | 45037 | U                    | 1.13E-02                                                                | 1.13E-02 | 1.14E-02 | 1.50E-02 | 1.54E-02 | 2.02E-02 | 2.29E-02 | 2.38E-02 | 0.00E+00                         | 8.34E-03             | 6.12E-03         | 9.26E-04          | 0.00E+00                |
| South Carolina | Fairfield County     | 45039 | R                    | 1.36E-02                                                                | 1.37E-02 | 1.41E-02 | 1.53E-02 | 2.73E-02 | 1.74E-02 | 4.00E-02 | 4.75E-02 | 5.29E-08                         | 1.87E-02             | 7.67E-03         | 9.72E-04          | 0.00E+00                |
| South Carolina | Florence County      | 45041 | R                    | 1.49E-02                                                                | 1.60E-02 | 1.88E-02 | 2.84E-02 | 3.06E-02 | 3.72E-02 | 4.76E-02 | 5.61E-02 | 1.71E-09                         | 7.29E-03             | 2.14E-02         | 1.93E-03          | 0.00E+00                |
| South Carolina | Georgetown County    | 45043 | R                    | 9.33E-03                                                                | 9.47E-03 | 1.29E-02 | 1.71E-02 | 1.88E-02 | 2.20E-02 | 2.75E-02 | 3.04E-02 | 9.31E-07                         | 1.06E-02             | 6.20E-03         | 2.08E-03          | 0.00E+00                |
| South Carolina | Greenville County    | 45045 | U                    | 3.34E-02                                                                | 3.88E-02 | 5.18E-02 | 6.55E-02 | 6.20E-02 | 7.37E-02 | 8.99E-02 | 9.53E-02 | 1.00E-08                         | 4.38E-03             | 4.48E-02         | 1.28E-02          | 0.00E+00                |
| South Carolina | Greenwood County     | 45047 | R                    | 1.68E-02                                                                | 1.69E-02 | 1.77E-02 | 2.33E-02 | 3.71E-02 | 5.15E-02 | 6.27E-02 | 7.08E-02 | 0.00E+00                         | 1.32E-02             | 2.17E-02         | 2.18E-03          | 0.00E+00                |
| South Carolina | Hampton County       | 45049 | R                    | 1.16E-02                                                                | 1.23E-02 | 1.44E-02 | 1.71E-02 | 1.45E-02 | 1.79E-02 | 1.80E-02 | 1.81E-02 | 0.00E+00                         | 9.88E-03             | 4.07E-03         | 5.20E-04          | 0.00E+00                |
| South Carolina | Horry County         | 45051 | R                    | 1.44E-02                                                                | 1.55E-02 | 1.91E-02 | 2.22E-02 | 3.26E-02 | 4.37E-02 | 5.85E-02 | 7.04E-02 | 4.58E-07                         | 9.75E-03             | 1.75E-02         | 5.40E-03          | 0.00E+00                |
| South Carolina | Jasper County        | 45053 | R                    | 1.07E-02                                                                | 1.10E-02 | 1.18E-02 | 1.33E-02 | 1.26E-02 | 1.35E-02 | 1.36E-02 | 1.36E-02 | 0.00E+00                         | 7.30E-03             | 4.29E-03         | 1.03E-03          | 0.00E+00                |
| South Carolina | Kershaw County       | 45055 | R                    | 1.12E-02                                                                | 1.13E-02 | 1.50E-02 | 1.61E-02 | 2.23E-02 | 2.54E-02 | 2.85E-02 | 3.15E-02 | 5.66E-08                         | 1.05E-02             | 1.02E-02         | 1.55E-03          | 0.00E+00                |
| South Carolina | Lancaster County     | 45057 | R                    | 1.61E-02                                                                | 1.65E-02 | 1.86E-02 | 3.08E-02 | 3.33E-02 | 4.85E-02 | 5.39E-02 | 5.97E-02 | 5.54E-06                         | 1.28E-02             | 1.80E-02         | 2.45E-03          | 0.00E+00                |

| State          | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| South Carolina | Laurens County       | 45059 | R                    | 1.67E-02                                                                | 1.72E-02 | 1.76E-02 | 2.13E-02 | 3.12E-02 | 4.65E-02 | 5.31E-02 | 5.37E-02 | 7.54E-10                         | 1.49E-02          | 1.47E-02         | 1.57E-03          | 0.00E+00                |
| South Carolina | Lee County           | 45061 | R                    | 8.72E-03                                                                | 8.79E-03 | 9.37E-03 | 1.09E-02 | 1.05E-02 | 1.11E-02 | 1.15E-02 | 1.18E-02 | 1.43E-08                         | 4.61E-03          | 5.22E-03         | 6.91E-04          | 0.00E+00                |
| South Carolina | Lexington County     | 45063 | U                    | 2.49E-02                                                                | 2.61E-02 | 3.58E-02 | 4.59E-02 | 4.16E-02 | 5.89E-02 | 7.00E-02 | 7.81E-02 | 1.52E-08                         | 6.00E-03          | 2.88E-02         | 6.83E-03          | 0.00E+00                |
| South Carolina | McCormick County     | 45065 | R                    | 1.20E-02                                                                | 1.20E-02 | 1.20E-02 | 1.21E-02 | 1.34E-02 | 1.31E-02 | 1.37E-02 | 1.39E-02 | 0.00E+00                         | 8.77E-03          | 3.97E-03         | 6.34E-04          | 0.00E+00                |
| South Carolina | Marion County        | 45067 | R                    | 1.26E-02                                                                | 1.27E-02 | 1.53E-02 | 1.98E-02 | 1.98E-02 | 2.21E-02 | 2.31E-02 | 2.39E-02 | 1.52E-08                         | 9.46E-03          | 9.30E-03         | 1.01E-03          | 0.00E+00                |
| South Carolina | Marlboro County      | 45069 | R                    | 9.50E-03                                                                | 9.87E-03 | 1.07E-02 | 1.29E-02 | 1.48E-02 | 1.71E-02 | 1.80E-02 | 1.80E-02 | 1.31E-08                         | 7.38E-03          | 6.78E-03         | 6.48E-04          | 0.00E+00                |
| South Carolina | Newberry County      | 45071 | R                    | 1.23E-02                                                                | 1.26E-02 | 1.36E-02 | 1.54E-02 | 2.08E-02 | 2.44E-02 | 2.74E-02 | 2.76E-02 | 2.78E-09                         | 1.18E-02          | 7.81E-03         | 1.17E-03          | 0.00E+00                |
| South Carolina | Oconee County        | 45073 | R                    | 1.77E-02                                                                | 1.89E-02 | 2.26E-02 | 2.59E-02 | 3.12E-02 | 3.55E-02 | 3.77E-02 | 4.23E-02 | 0.00E+00                         | 1.19E-02          | 1.68E-02         | 2.40E-03          | 0.00E+00                |
| South Carolina | Orangeburg County    | 45075 | R                    | 4.95E-04                                                                | 9.92E-03 | 1.06E-02 | 1.96E-02 | 2.78E-02 | 3.96E-02 | 5.72E-02 | 6.00E-02 | 0.00E+00                         | 1.04E-02          | 1.59E-02         | 1.46E-03          | 0.00E+00                |
| South Carolina | Pickens County       | 45077 | U                    | 2.09E-02                                                                | 2.24E-02 | 2.47E-02 | 2.84E-02 | 3.64E-02 | 4.30E-02 | 5.14E-02 | 5.28E-02 | 1.14E-11                         | 7.61E-03          | 2.23E-02         | 6.51E-03          | 0.00E+00                |
| South Carolina | Richland County      | 45079 | U                    | 3.23E-02                                                                | 3.74E-02 | 5.62E-02 | 6.85E-02 | 6.99E-02 | 8.60E-02 | 1.11E-01 | 1.22E-01 | 1.69E-08                         | 1.20E-02          | 4.82E-02         | 9.73E-03          | 0.00E+00                |
| South Carolina | Saluda County        | 45081 | R                    | 1.17E-02                                                                | 1.19E-02 | 1.23E-02 | 1.27E-02 | 1.27E-02 | 1.33E-02 | 1.42E-02 | 1.45E-02 | 1.86E-09                         | 6.64E-03          | 4.90E-03         | 1.13E-03          | 0.00E+00                |
| South Carolina | Spartanburg County   | 45083 | U                    | 2.62E-02                                                                | 2.82E-02 | 3.35E-02 | 4.71E-02 | 4.69E-02 | 6.22E-02 | 7.85E-02 | 8.09E-02 | 6.34E-08                         | 5.70E-03          | 3.42E-02         | 7.02E-03          | 0.00E+00                |
| South Carolina | Sumter County        | 45085 | R                    | 1.61E-02                                                                | 1.64E-02 | 2.04E-02 | 3.60E-02 | 3.96E-02 | 4.86E-02 | 5.64E-02 | 6.67E-02 | 1.67E-11                         | 1.03E-02          | 2.73E-02         | 1.96E-03          | 0.00E+00                |
| South Carolina | Union County         | 45087 | R                    | 1.31E-02                                                                | 1.32E-02 | 1.54E-02 | 2.37E-02 | 3.88E-02 | 6.47E-02 | 8.03E-02 | 8.04E-02 | 3.04E-07                         | 2.24E-02          | 1.47E-02         | 1.66E-03          | 0.00E+00                |
| South Carolina | Williamsburg County  | 45089 | R                    | 1.12E-02                                                                | 1.20E-02 | 1.23E-02 | 1.35E-02 | 1.62E-02 | 1.97E-02 | 2.78E-02 | 5.53E-02 | 1.80E-08                         | 9.13E-03          | 6.39E-03         | 6.60E-04          | 0.00E+00                |
| South Carolina | York County          | 45091 | U                    | 1.61E-02                                                                | 2.24E-02 | 2.80E-02 | 3.95E-02 | 4.38E-02 | 5.51E-02 | 8.03E-02 | 8.41E-02 | 6.82E-05                         | 6.69E-03          | 2.72E-02         | 9.83E-03          | 0.00E+00                |
| South Dakota   | Statewide            | 46000 | -                    | 4.88E-04                                                                | 5.83E-04 | 1.14E-03 | 3.43E-03 | 2.04E-02 | 2.25E-02 | 5.82E-02 | 6.99E-02 | 0.00E+00                         | 4.37E-03          | 1.07E-02         | 5.31E-03          | 0.00E+00                |
| South Dakota   | State Urban Counties | 46000 | U                    | 1.35E-03                                                                | 1.99E-03 | 8.37E-03 | 1.98E-02 | 3.11E-02 | 5.22E-02 | 6.94E-02 | 8.22E-02 | 0.00E+00                         | 6.13E-03          | 1.65E-02         | 8.44E-03          | 0.00E+00                |
| South Dakota   | State Rural Counties | 46000 | R                    | 3.41E-04                                                                | 5.01E-04 | 7.10E-04 | 1.20E-03 | 3.61E-03 | 2.44E-03 | 4.46E-03 | 7.14E-03 | 0.00E+00                         | 1.63E-03          | 1.55E-03         | 4.27E-04          | 0.00E+00                |
| South Dakota   | Aurora County        | 46003 | R                    | 7.08E-04                                                                | 7.11E-04 | 7.19E-04 | 7.33E-04 | 7.39E-04 | 7.47E-04 | 7.55E-04 | 7.58E-04 | 0.00E+00                         | 8.24E-05          | 5.19E-04         | 1.37E-04          | 0.00E+00                |
| South Dakota   | Beadle County        | 46005 | U                    | 1.21E-03                                                                | 1.25E-03 | 2.94E-03 | 7.82E-03 | 8.22E-03 | 8.26E-03 | 1.35E-02 | 1.61E-02 | 0.00E+00                         | 3.91E-05          | 4.34E-03         | 3.84E-03          | 0.00E+00                |
| South Dakota   | Bennett County       | 46007 | R                    | 6.11E-04                                                                | 6.11E-04 | 6.11E-04 | 6.11E-04 | 6.11E-04 | 6.11E-04 | 6.11E-04 | 6.11E-04 | 0.00E+00                         | 2.35E-04          | 3.20E-04         | 5.62E-05          | 0.00E+00                |
| South Dakota   | Bon Homme County     | 46009 | R                    | 1.89E-03                                                                | 1.93E-03 | 2.05E-03 | 2.26E-03 | 2.29E-03 | 2.47E-03 | 2.59E-03 | 2.63E-03 | 0.00E+00                         | 4.79E-04          | 1.47E-03         | 3.43E-04          | 0.00E+00                |
| South Dakota   | Brookings County     | 46011 | U                    | 2.92E-03                                                                | 2.98E-03 | 3.15E-03 | 1.10E-02 | 1.40E-02 | 1.89E-02 | 1.91E-02 | 1.91E-02 | 0.00E+00                         | 7.62E-04          | 8.62E-03         | 4.57E-03          | 0.00E+00                |
| South Dakota   | Brown County         | 46013 | U                    | 1.73E-03                                                                | 2.31E-03 | 4.12E-03 | 1.48E-02 | 1.75E-02 | 2.25E-02 | 3.04E-02 | 3.36E-02 | 0.00E+00                         | 2.85E-03          | 7.73E-03         | 6.95E-03          | 0.00E+00                |
| South Dakota   | Brule County         | 46015 | R                    | 1.05E-03                                                                | 1.23E-03 | 1.79E-03 | 2.73E-03 | 2.72E-03 | 3.67E-03 | 4.23E-03 | 4.42E-03 | 0.00E+00                         | 9.20E-04          | 1.49E-03         | 3.12E-04          | 0.00E+00                |
| South Dakota   | Buffalo County       | 46017 | R                    | 1.02E-03                                                                | 1.02E-03 | 1.02E-03 | 1.02E-03 | 1.02E-03 | 1.02E-03 | 1.02E-03 | 1.02E-03 | 0.00E+00                         | 1.66E-04          | 5.69E-04         | 2.84E-04          | 0.00E+00                |
| South Dakota   | Butte County         | 46019 | U                    | 6.63E-04                                                                | 9.43E-04 | 1.78E-03 | 3.18E-03 | 4.12E-03 | 4.57E-03 | 5.41E-03 | 5.69E-03 | 0.00E+00                         | 2.33E-03          | 8.22E-04         | 9.67E-04          | 0.00E+00                |
| South Dakota   | Campbell County      | 46021 | R                    | 4.86E-04                                                                | 4.86E-04 | 4.86E-04 | 4.86E-04 | 4.86E-04 | 4.86E-04 | 4.86E-04 | 4.86E-04 | 0.00E+00                         | 1.97E-07          | 2.83E-04         | 2.03E-04          | 0.00E+00                |
| South Dakota   | Charles Mix County   | 46023 | R                    | 1.09E-03                                                                | 1.10E-03 | 1.14E-03 | 1.19E-03 | 1.26E-03 | 1.34E-03 | 1.43E-03 | 1.46E-03 | 0.00E+00                         | 7.93E-05          | 9.15E-04         | 2.68E-04          | 0.00E+00                |
| South Dakota   | Clark County         | 46025 | R                    | 7.05E-04                                                                | 7.07E-04 | 7.10E-04 | 7.16E-04 | 7.18E-04 | 7.21E-04 | 7.24E-04 | 7.26E-04 | 0.00E+00                         | 6.01E-05          | 4.89E-04         | 1.68E-04          | 0.00E+00                |
| South Dakota   | Clay County          | 46027 | U                    | 3.63E-03                                                                | 5.43E-03 | 1.08E-02 | 1.98E-02 | 1.63E-02 | 2.03E-02 | 2.05E-02 | 2.06E-02 | 0.00E+00                         | 2.35E-03          | 8.68E-03         | 5.24E-03          | 0.00E+00                |
| South Dakota   | Codington County     | 46029 | U                    | 3.02E-03                                                                | 3.26E-03 | 3.96E-03 | 9.99E-03 | 1.55E-02 | 1.72E-02 | 2.33E-02 | 2.53E-02 | 0.00E+00                         | 2.47E-03          | 6.89E-03         | 6.16E-03          | 0.00E+00                |
| South Dakota   | Corson County        | 46031 | R                    | 5.02E-04                                                                | 5.02E-04 | 5.02E-04 | 5.02E-04 | 5.02E-04 | 5.02E-04 | 5.02E-04 | 5.02E-04 | 0.00E+00                         | 1.55E-04          | 2.25E-04         | 1.23E-04          | 0.00E+00                |
| South Dakota   | Custer County        | 46033 | R                    | 1.42E-02                                                                | 2.01E-02 | 3.77E-02 | 6.70E-02 | 5.78E-02 | 9.63E-02 | 1.14E-01 | 1.20E-01 | 0.00E+00                         | 5.64E-02          | 1.31E-03         | 1.04E-04          | 0.00E+00                |
| South Dakota   | Davison County       | 46035 | U                    | 2.29E-03                                                                | 3.20E-03 | 5.90E-03 | 7.88E-03 | 8.29E-03 | 9.20E-03 | 1.07E-02 | 1.12E-02 | 0.00E+00                         | 2.21E-03          | 3.93E-03         | 2.14E-03          | 0.00E+00                |
| South Dakota   | Day County           | 46037 | R                    | 1.05E-03                                                                | 1.05E-03 | 1.05E-03 | 1.05E-03 | 1.89E-03 | 2.33E-03 | 3.10E-03 | 3.35E-03 | 0.00E+00                         | 9.29E-05          | 1.37E-03         | 4.31E-04          | 0.00E+00                |
| South Dakota   | Deuel County         | 46039 | R                    | 1.62E-03                                                                | 1.68E-03 | 1.85E-03 | 2.14E-03 | 1.92E-03 | 2.44E-03 | 2.61E-03 | 2.67E-03 | 0.00E+00                         | 3.55E-04          | 1.26E-03         | 2.97E-04          | 0.00E+00                |
| South Dakota   | Dewey County         | 46041 | R                    | 5.34E-04                                                                | 5.34E-04 | 5.34E-04 | 5.34E-04 | 5.34E-04 | 5.34E-04 | 5.34E-04 | 5.34E-04 | 0.00E+00                         | 8.61E-06          | 2.91E-04         | 2.35E-04          | 0.00E+00                |
| South Dakota   | Douglas County       | 46043 | R                    | 1.09E-03                                                                | 1.09E-03 | 1.09E-03 | 1.09E-03 | 1.09E-03 | 1.09E-03 | 1.09E-03 | 1.09E-03 | 0.00E+00                         | 3.07E-05          | 8.82E-04         | 1.75E-04          | 0.00E+00                |
| South Dakota   | Edmunds County       | 46045 | R                    | 6.99E-04                                                                | 7.02E-04 | 7.08E-04 | 7.19E-04 | 7.18E-04 | 7.30E-04 | 7.37E-04 | 7.39E-04 | 0.00E+00                         | 1.78E-04          | 3.80E-04         | 1.60E-04          | 0.00E+00                |
| South Dakota   | Fall River County    | 46047 | U                    | 1.08E-03                                                                | 1.68E-03 | 3.47E-03 | 6.46E-03 | 8.26E-03 | 9.45E-03 | 1.12E-02 | 1.18E-02 | 0.00E+00                         | 6.56E-03          | 1.31E-03         | 3.92E-04          | 0.00E+00                |
| South Dakota   | Faulk County         | 46049 | R                    | 5.18E-04                                                                | 5.18E-04 | 5.18E-04 | 5.18E-04 | 5.18E-04 | 5.18E-04 | 5.18E-04 | 5.18E-04 | 0.00E+00                         | 1.24E-04          | 3.05E-04         | 8.89E-05          | 0.00E+00                |
| South Dakota   | Grant County         | 46051 | R                    | 1.31E-03                                                                | 1.38E-03 | 1.59E-03 | 1.93E-03 | 2.24E-03 | 2.28E-03 | 2.49E-03 | 2.56E-03 | 0.00E+00                         | 7.99E-04          | 1.15E-03         | 2.90E-04          | 0.00E+00                |
| South Dakota   | Gregory County       | 46053 | R                    | 1.29E-03                                                                | 1.30E-03 | 1.32E-03 | 1.35E-03 | 1.35E-03 | 1.39E-03 | 1.41E-03 | 1.41E-03 | 0.00E+00                         | 4.64E-04          | 6.57E-04         | 2.26E-04          | 0.00E+00                |
| South Dakota   | Haakon County        | 46055 | R                    | 3.06E-04                                                                | 3.06E-04 | 3.06E-04 | 3.06E-04 | 3.06E-04 | 3.06E-04 | 3.06E-04 | 3.06E-04 | 0.00E+00                         | 9.43E-05          | 1.58E-04         | 5.36E-05          | 0.00E+00                |
| South Dakota   | Hamlin County        | 46057 | R                    | 1.47E-03                                                                | 1.47E-03 | 1.49E-03 | 1.52E-03 | 1.51E-03 | 1.54E-03 | 1.56E-03 | 1.56E-03 | 0.00E+00                         | 1.29E-04          | 9.45E-04         | 4.39E-04          | 0.00E+00                |
| South Dakota   | Hand County          | 46059 | R                    | 1.87E-03                                                                | 1.87E-03 | 1.88E-03 | 1.88E-03 | 1.88E-03 | 1.89E-03 | 1.90E-03 | 1.90E-03 | 0.00E+00                         | 2.93E-04          | 1.38E-03         | 2.10E-04          | 0.00E+00                |
| South Dakota   | Hanson County        | 46061 | R                    | 1.27E-03                                                                | 1.27E-03 | 1.27E-03 | 1.27E-03 | 1.27E-03 | 1.27E-03 | 1.27E-03 | 1.27E-03 | 0.00E+00                         | 1.44E-04          | 8.60E-04         | 2.63E-04          | 0.00E+00                |
| South Dakota   | Harding County       | 46063 | R                    | 1.09E-04                                                                | 1.09E-04 | 1.09E-04 | 1.09E-04 | 1.09E-04 | 1.09E-04 | 1.09E-04 | 1.09E-04 | 0.00E+00                         | 3.10E-05          | 6.06E-05         | 1.69E-05          | 0.00E+00                |
| South Dakota   | Hughes County        | 46065 | U                    | 3.93E-03                                                                | 6.35E-03 | 1.36E-02 | 1.77E-02 | 1.60E-02 | 1.78E-02 | 1.81E-02 | 1.82E-02 | 0.00E+00                         | 3.50E-03          | 5.21E-03         | 7.24E-03          | 0.00E+00                |

| State        | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|--------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|              |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|              |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| South Dakota | Hutchinson County    | 46067 | R                    | 1.50E-03                                                                | 1.51E-03 | 1.54E-03 | 1.59E-03 | 1.59E-03 | 1.65E-03 | 1.69E-03 | 1.70E-03 | 0.00E+00                         | 1.29E-04          | 1.22E-03         | 2.48E-04          | 0.00E+00                |
| South Dakota | Hyde County          | 46069 | R                    | 3.40E-04                                                                | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 3.40E-04 | 0.00E+00                         | 4.38E-05          | 2.20E-04         | 7.60E-05          | 0.00E+00                |
| South Dakota | Jackson County       | 46071 | R                    | 5.07E-04                                                                | 5.08E-04 | 5.10E-04 | 5.12E-04 | 5.12E-04 | 5.15E-04 | 5.16E-04 | 5.17E-04 | 0.00E+00                         | 1.98E-04          | 2.57E-04         | 5.69E-05          | 0.00E+00                |
| South Dakota | Jerauld County       | 46073 | R                    | 2.88E-03                                                                | 2.88E-03 | 2.89E-03 | 2.90E-03 | 2.90E-03 | 2.91E-03 | 2.92E-03 | 2.92E-03 | 0.00E+00                         | 1.14E-05          | 2.63E-03         | 2.60E-04          | 0.00E+00                |
| South Dakota | Jones County         | 46075 | R                    | 3.41E-04                                                                | 3.41E-04 | 3.41E-04 | 3.41E-04 | 3.41E-04 | 3.41E-04 | 3.41E-04 | 3.41E-04 | 0.00E+00                         | 1.50E-04          | 1.36E-04         | 5.57E-05          | 0.00E+00                |
| South Dakota | Kingsbury County     | 46077 | R                    | 9.62E-04                                                                | 9.69E-04 | 9.92E-04 | 1.03E-03 | 1.05E-03 | 1.07E-03 | 1.09E-03 | 1.10E-03 | 0.00E+00                         | 3.60E-05          | 7.33E-04         | 2.76E-04          | 0.00E+00                |
| South Dakota | Lake County          | 46079 | U                    | 1.75E-03                                                                | 1.88E-03 | 2.26E-03 | 2.91E-03 | 5.09E-03 | 4.91E-03 | 6.11E-03 | 6.51E-03 | 0.00E+00                         | 4.00E-05          | 3.33E-03         | 1.72E-03          | 0.00E+00                |
| South Dakota | Lawrence County      | 46081 | U                    | 1.70E-02                                                                | 1.79E-02 | 2.08E-02 | 3.26E-02 | 5.63E-02 | 7.91E-02 | 1.03E-01 | 1.11E-01 | 0.00E+00                         | 2.73E-02          | 5.14E-03         | 2.39E-02          | 0.00E+00                |
| South Dakota | Lincoln County       | 46083 | R                    | 3.37E-03                                                                | 3.50E-03 | 3.89E-03 | 4.11E-03 | 7.27E-03 | 6.17E-03 | 9.84E-03 | 1.11E-02 | 0.00E+00                         | 9.36E-05          | 5.30E-03         | 1.89E-03          | 0.00E+00                |
| South Dakota | Lyman County         | 46085 | R                    | 4.77E-04                                                                | 4.77E-04 | 4.77E-04 | 4.77E-04 | 4.77E-04 | 4.77E-04 | 4.77E-04 | 4.77E-04 | 0.00E+00                         | 9.07E-05          | 2.47E-04         | 1.39E-04          | 0.00E+00                |
| South Dakota | McCook County        | 46087 | R                    | 1.70E-03                                                                | 1.71E-03 | 1.71E-03 | 1.72E-03 | 1.72E-03 | 1.73E-03 | 1.73E-03 | 1.73E-03 | 0.00E+00                         | 1.03E-04          | 1.29E-03         | 3.26E-04          | 0.00E+00                |
| South Dakota | McPherson County     | 46089 | R                    | 5.55E-04                                                                | 5.55E-04 | 5.55E-04 | 5.55E-04 | 5.55E-04 | 5.55E-04 | 5.55E-04 | 5.55E-04 | 0.00E+00                         | 1.02E-04          | 3.33E-04         | 1.20E-04          | 0.00E+00                |
| South Dakota | Marshall County      | 46091 | R                    | 1.03E-03                                                                | 1.04E-03 | 1.06E-03 | 1.09E-03 | 1.06E-03 | 1.11E-03 | 1.13E-03 | 1.14E-03 | 0.00E+00                         | 1.58E-04          | 6.40E-04         | 2.61E-04          | 0.00E+00                |
| South Dakota | Meade County         | 46093 | R                    | 1.27E-03                                                                | 1.92E-03 | 3.87E-03 | 7.23E-03 | 7.01E-03 | 9.79E-03 | 1.03E-02 | 1.05E-02 | 0.00E+00                         | 1.35E-03          | 4.44E-03         | 1.22E-03          | 0.00E+00                |
| South Dakota | Mellette County      | 46095 | R                    | 5.00E-04                                                                | 5.00E-04 | 5.00E-04 | 5.00E-04 | 5.00E-04 | 5.00E-04 | 5.00E-04 | 5.00E-04 | 0.00E+00                         | 2.19E-04          | 2.45E-04         | 3.65E-05          | 0.00E+00                |
| South Dakota | Miner County         | 46097 | R                    | 8.51E-04                                                                | 8.86E-04 | 9.89E-04 | 1.16E-03 | 1.28E-03 | 1.33E-03 | 1.44E-03 | 1.47E-03 | 0.00E+00                         | 4.16E-05          | 9.94E-04         | 2.47E-04          | 0.00E+00                |
| South Dakota | Minnehaha County     | 46099 | U                    | 1.10E-02                                                                | 1.80E-02 | 3.58E-02 | 5.32E-02 | 5.04E-02 | 6.14E-02 | 9.42E-02 | 1.09E-01 | 0.00E+00                         | 1.47E-04          | 3.65E-02         | 1.38E-02          | 0.00E+00                |
| South Dakota | Moody County         | 46101 | R                    | 2.80E-03                                                                | 2.91E-03 | 3.24E-03 | 3.78E-03 | 3.73E-03 | 4.32E-03 | 4.64E-03 | 4.75E-03 | 0.00E+00                         | 6.41E-04          | 2.51E-03         | 5.75E-04          | 0.00E+00                |
| South Dakota | Pennington County    | 46103 | U                    | 1.10E-02                                                                | 1.80E-02 | 2.55E-02 | 4.99E-02 | 4.09E-02 | 5.82E-02 | 6.96E-02 | 7.61E-02 | 0.00E+00                         | 2.00E-02          | 1.49E-02         | 5.98E-03          | 0.00E+00                |
| South Dakota | Perkins County       | 46105 | R                    | 1.91E-04                                                                | 1.91E-04 | 1.91E-04 | 1.91E-04 | 1.91E-04 | 1.91E-04 | 1.91E-04 | 1.91E-04 | 0.00E+00                         | 2.26E-08          | 1.47E-04         | 4.35E-05          | 0.00E+00                |
| South Dakota | Potter County        | 46107 | R                    | 6.02E-04                                                                | 6.02E-04 | 6.02E-04 | 6.02E-04 | 6.02E-04 | 6.02E-04 | 6.02E-04 | 6.02E-04 | 0.00E+00                         | 1.59E-05          | 3.88E-04         | 1.98E-04          | 0.00E+00                |
| South Dakota | Roberts County       | 46109 | R                    | 1.26E-03                                                                | 1.31E-03 | 1.44E-03 | 1.56E-03 | 2.72E-03 | 2.78E-03 | 4.90E-03 | 5.61E-03 | 0.00E+00                         | 8.95E-04          | 1.55E-03         | 2.79E-04          | 0.00E+00                |
| South Dakota | Sanborn County       | 46111 | R                    | 9.07E-04                                                                | 9.15E-04 | 9.39E-04 | 9.79E-04 | 9.75E-04 | 1.02E-03 | 1.04E-03 | 1.05E-03 | 0.00E+00                         | 1.11E-04          | 6.36E-04         | 2.27E-04          | 0.00E+00                |
| South Dakota | Shannon County       | 46113 | R                    | 8.91E-04                                                                | 8.94E-04 | 9.02E-04 | 9.15E-04 | 9.20E-04 | 9.29E-04 | 9.37E-04 | 9.39E-04 | 0.00E+00                         | 4.80E-04          | 4.02E-04         | 3.82E-05          | 0.00E+00                |
| South Dakota | Spink County         | 46115 | R                    | 5.69E-04                                                                | 5.96E-04 | 6.78E-04 | 7.37E-04 | 1.77E-03 | 1.42E-03 | 2.62E-03 | 3.02E-03 | 0.00E+00                         | 4.63E-04          | 1.11E-03         | 1.94E-04          | 0.00E+00                |
| South Dakota | Stanley County       | 46117 | R                    | 9.39E-04                                                                | 9.39E-04 | 9.39E-04 | 9.39E-04 | 9.39E-04 | 9.39E-04 | 9.39E-04 | 9.39E-04 | 0.00E+00                         | 1.56E-04          | 3.07E-04         | 4.77E-04          | 0.00E+00                |
| South Dakota | Sully County         | 46119 | R                    | 4.88E-04                                                                | 4.88E-04 | 4.88E-04 | 4.88E-04 | 4.88E-04 | 4.88E-04 | 4.88E-04 | 4.88E-04 | 0.00E+00                         | 6.08E-05          | 1.68E-04         | 2.59E-04          | 0.00E+00                |
| South Dakota | Todd County          | 46121 | R                    | 9.02E-04                                                                | 9.25E-04 | 9.96E-04 | 1.11E-03 | 1.17E-03 | 1.23E-03 | 1.30E-03 | 1.32E-03 | 0.00E+00                         | 3.63E-04          | 7.51E-04         | 5.51E-05          | 0.00E+00                |
| South Dakota | Tripp County         | 46123 | R                    | 7.84E-04                                                                | 8.72E-04 | 1.14E-03 | 1.58E-03 | 1.72E-03 | 2.02E-03 | 2.28E-03 | 2.37E-03 | 0.00E+00                         | 4.65E-04          | 1.09E-03         | 1.66E-04          | 0.00E+00                |
| South Dakota | Turner County        | 46125 | R                    | 2.35E-03                                                                | 2.35E-03 | 2.36E-03 | 2.36E-03 | 2.36E-03 | 2.37E-03 | 2.37E-03 | 2.37E-03 | 0.00E+00                         | 1.00E-04          | 1.82E-03         | 4.38E-04          | 0.00E+00                |
| South Dakota | Union County         | 46127 | R                    | 3.15E-03                                                                | 3.18E-03 | 3.27E-03 | 3.43E-03 | 4.40E-03 | 4.96E-03 | 5.88E-03 | 6.19E-03 | 0.00E+00                         | 2.04E-04          | 3.32E-03         | 8.79E-04          | 0.00E+00                |
| South Dakota | Walworth County      | 46129 | U                    | 6.45E-04                                                                | 7.53E-04 | 1.08E-03 | 1.62E-03 | 1.97E-03 | 2.16E-03 | 2.48E-03 | 2.59E-03 | 0.00E+00                         | 7.03E-06          | 9.57E-04         | 1.00E-03          | 0.00E+00                |
| South Dakota | Yankton County       | 46135 | U                    | 4.47E-03                                                                | 5.69E-03 | 9.33E-03 | 1.17E-02 | 1.16E-02 | 1.46E-02 | 1.94E-02 | 2.09E-02 | 0.00E+00                         | 1.20E-03          | 6.63E-03         | 3.78E-03          | 0.00E+00                |
| South Dakota | Ziebach County       | 46137 | R                    | 1.68E-04                                                                | 1.68E-04 | 1.68E-04 | 1.68E-04 | 1.68E-04 | 1.68E-04 | 1.68E-04 | 1.68E-04 | 0.00E+00                         | 1.43E-06          | 1.27E-04         | 3.95E-05          | 0.00E+00                |
| Tennessee    | Statewide            | 47000 | -                    | 5.60E-03                                                                | 7.07E-03 | 1.28E-02 | 3.58E-02 | 5.06E-02 | 7.72E-02 | 1.07E-01 | 1.24E-01 | 2.47E-04                         | 2.94E-03          | 3.84E-02         | 8.92E-03          | 0.00E+00                |
| Tennessee    | State Urban Counties | 47000 | U                    | 8.71E-03                                                                | 1.46E-02 | 3.09E-02 | 6.18E-02 | 6.39E-02 | 9.06E-02 | 1.17E-01 | 1.34E-01 | 3.37E-04                         | 2.44E-03          | 4.93E-02         | 1.19E-02          | 0.00E+00                |
| Tennessee    | State Rural Counties | 47000 | R                    | 4.54E-03                                                                | 5.76E-03 | 7.37E-03 | 1.14E-02 | 1.64E-02 | 1.82E-02 | 2.94E-02 | 3.82E-02 | 1.78E-05                         | 4.21E-03          | 1.08E-02         | 1.46E-03          | 0.00E+00                |
| Tennessee    | Anderson County      | 47001 | U                    | 1.98E-02                                                                | 2.23E-02 | 2.56E-02 | 3.01E-02 | 3.73E-02 | 4.99E-02 | 5.88E-02 | 6.07E-02 | 0.00E+00                         | 5.58E-03          | 2.71E-02         | 4.60E-03          | 0.00E+00                |
| Tennessee    | Bedford County       | 47003 | R                    | 7.13E-03                                                                | 7.16E-03 | 7.59E-03 | 8.20E-03 | 1.53E-02 | 1.61E-02 | 2.65E-02 | 2.66E-02 | 0.00E+00                         | 2.36E-03          | 1.18E-02         | 1.23E-03          | 0.00E+00                |
| Tennessee    | Benton County        | 47005 | R                    | 5.72E-03                                                                | 5.83E-03 | 6.17E-03 | 7.65E-03 | 1.22E-02 | 7.93E-03 | 1.88E-02 | 2.24E-02 | 0.00E+00                         | 5.84E-03          | 5.56E-03         | 7.88E-04          | 0.00E+00                |
| Tennessee    | Bledsoe County       | 47007 | R                    | 1.13E-02                                                                | 1.20E-02 | 1.38E-02 | 1.70E-02 | 1.69E-02 | 1.91E-02 | 2.04E-02 | 2.09E-02 | 6.28E-06                         | 8.72E-03          | 7.38E-03         | 7.99E-04          | 0.00E+00                |
| Tennessee    | Blount County        | 47009 | U                    | 2.08E-02                                                                | 2.90E-02 | 3.71E-02 | 4.84E-02 | 4.80E-02 | 5.87E-02 | 7.81E-02 | 8.41E-02 | 0.00E+00                         | 2.72E-03          | 3.65E-02         | 8.86E-03          | 0.00E+00                |
| Tennessee    | Bradley County       | 47011 | R                    | 1.28E-02                                                                | 1.60E-02 | 2.18E-02 | 3.03E-02 | 3.16E-02 | 3.68E-02 | 5.45E-02 | 5.93E-02 | 1.76E-04                         | 4.23E-03          | 2.42E-02         | 2.95E-03          | 0.00E+00                |
| Tennessee    | Campbell County      | 47013 | R                    | 1.05E-02                                                                | 1.20E-02 | 1.59E-02 | 2.35E-02 | 2.71E-02 | 3.35E-02 | 4.35E-02 | 4.52E-02 | 0.00E+00                         | 9.48E-03          | 1.59E-02         | 1.76E-03          | 0.00E+00                |
| Tennessee    | Cannon County        | 47015 | R                    | 1.26E-02                                                                | 1.29E-02 | 1.37E-02 | 1.52E-02 | 1.61E-02 | 1.69E-02 | 1.80E-02 | 1.84E-02 | 0.00E+00                         | 4.96E-03          | 9.13E-03         | 1.95E-03          | 0.00E+00                |
| Tennessee    | Carroll County       | 47017 | R                    | 5.49E-03                                                                | 5.57E-03 | 5.80E-03 | 5.98E-03 | 6.05E-03 | 6.41E-03 | 7.49E-03 | 7.95E-03 | 9.57E-10                         | 1.87E-03          | 3.63E-03         | 5.53E-04          | 0.00E+00                |
| Tennessee    | Carter County        | 47019 | U                    | 1.74E-02                                                                | 2.00E-02 | 2.61E-02 | 3.50E-02 | 3.92E-02 | 4.58E-02 | 6.65E-02 | 7.94E-02 | 1.04E-04                         | 4.00E-03          | 3.17E-02         | 3.43E-03          | 0.00E+00                |
| Tennessee    | Cheatham County      | 47021 | U                    | 1.70E-02                                                                | 1.77E-02 | 2.00E-02 | 2.34E-02 | 2.38E-02 | 2.94E-02 | 3.66E-02 | 3.90E-02 | 0.00E+00                         | 3.53E-03          | 1.63E-02         | 3.99E-03          | 0.00E+00                |
| Tennessee    | Chester County       | 47023 | R                    | 5.57E-03                                                                | 5.63E-03 | 5.82E-03 | 6.13E-03 | 1.18E-02 | 1.42E-02 | 1.90E-02 | 2.07E-02 | 6.03E-08                         | 5.50E-03          | 5.58E-03         | 7.59E-04          | 0.00E+00                |
| Tennessee    | Claiborne County     | 47025 | R                    | 8.74E-03                                                                | 9.05E-03 | 1.02E-02 | 1.19E-02 | 1.46E-02 | 1.68E-02 | 2.06E-02 | 2.25E-02 | 3.64E-09                         | 4.67E-03          | 9.06E-03         | 8.84E-04          | 0.00E+00                |
| Tennessee    | Clay County          | 47027 | R                    | 7.82E-03                                                                | 7.85E-03 | 7.94E-03 | 8.09E-03 | 8.02E-03 | 8.24E-03 | 8.33E-03 | 8.36E-03 | 0.00E+00                         | 3.79E-03          | 3.59E-03         | 6.42E-04          | 0.00E+00                |
| Tennessee    | Cocke County         | 47029 | R                    | 1.08E-02                                                                | 1.11E-02 | 1.19E-02 | 1.24E-02 | 1.86E-02 | 1.78E-02 | 2.98E-02 | 3.52E-02 | 2.29E-08                         | 4.97E-03          | 1.21E-02         | 1.47E-03          | 0.00E+00                |

| State     | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-----------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|           |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|           |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Tennessee | Coffee County     | 47031 | U                    | 7.89E-03                                                                | 8.26E-03 | 1.25E-02 | 1.51E-02 | 1.98E-02 | 2.65E-02 | 3.14E-02 | 3.35E-02 | 8.58E-07                         | 4.02E-03          | 1.15E-02         | 4.34E-03          | 0.00E+00                |
| Tennessee | Crockett County   | 47033 | R                    | 0.00E+00                                                                | 0.00E+00 | 2.96E-03 | 6.04E-03 | 6.53E-03 | 6.61E-03 | 6.97E-03 | 7.18E-03 | 2.72E-06                         | 4.50E-04          | 5.24E-03         | 8.41E-04          | 0.00E+00                |
| Tennessee | Cumberland County | 47035 | R                    | 0.00E+00                                                                | 0.00E+00 | 1.15E-02 | 1.40E-02 | 2.36E-02 | 3.41E-02 | 4.05E-02 | 8.21E-02 | 0.00E+00                         | 7.57E-03          | 1.26E-02         | 3.44E-03          | 0.00E+00                |
| Tennessee | Davidson County   | 47037 | U                    | 4.79E-02                                                                | 6.57E-02 | 8.33E-02 | 9.70E-02 | 9.92E-02 | 1.17E-01 | 1.37E-01 | 1.71E-01 | 0.00E+00                         | 1.30E-03          | 7.62E-02         | 2.17E-02          | 0.00E+00                |
| Tennessee | Decatur County    | 47039 | R                    | 5.98E-03                                                                | 6.04E-03 | 6.21E-03 | 6.49E-03 | 6.58E-03 | 6.77E-03 | 6.94E-03 | 7.00E-03 | 0.00E+00                         | 3.15E-03          | 3.03E-03         | 4.10E-04          | 0.00E+00                |
| Tennessee | DeKalb County     | 47041 | R                    | 9.39E-03                                                                | 9.41E-03 | 9.48E-03 | 9.61E-03 | 1.31E-02 | 1.41E-02 | 1.69E-02 | 1.78E-02 | 0.00E+00                         | 4.68E-03          | 6.87E-03         | 1.57E-03          | 0.00E+00                |
| Tennessee | Dickson County    | 47043 | U                    | 1.09E-02                                                                | 1.14E-02 | 1.23E-02 | 1.41E-02 | 1.76E-02 | 2.06E-02 | 2.32E-02 | 2.33E-02 | 0.00E+00                         | 3.50E-03          | 1.16E-02         | 2.53E-03          | 0.00E+00                |
| Tennessee | Dyer County       | 47045 | U                    | 6.50E-03                                                                | 6.80E-03 | 7.66E-03 | 1.03E-02 | 1.83E-02 | 2.20E-02 | 3.05E-02 | 3.41E-02 | 2.72E-06                         | 1.92E-03          | 1.25E-02         | 3.87E-03          | 0.00E+00                |
| Tennessee | Fayette County    | 47047 | U                    | 5.85E-03                                                                | 6.02E-03 | 7.27E-03 | 8.95E-03 | 1.09E-02 | 1.32E-02 | 1.58E-02 | 1.72E-02 | 1.44E-03                         | 1.46E-03          | 6.53E-03         | 1.44E-03          | 0.00E+00                |
| Tennessee | Fentress County   | 47049 | R                    | 9.11E-03                                                                | 9.22E-03 | 9.54E-03 | 1.05E-02 | 1.60E-02 | 1.60E-02 | 2.45E-02 | 2.73E-02 | 1.38E-09                         | 8.63E-03          | 6.66E-03         | 7.13E-04          | 0.00E+00                |
| Tennessee | Franklin County   | 47051 | R                    | 0.00E+00                                                                | 0.00E+00 | 4.65E-03 | 7.79E-03 | 1.39E-02 | 1.12E-02 | 2.62E-02 | 2.65E-02 | 5.12E-06                         | 2.89E-03          | 9.66E-03         | 1.32E-03          | 0.00E+00                |
| Tennessee | Gibson County     | 47053 | R                    | 3.17E-03                                                                | 4.58E-03 | 5.20E-03 | 7.06E-03 | 9.92E-03 | 1.08E-02 | 1.33E-02 | 1.37E-02 | 1.50E-07                         | 8.67E-04          | 7.89E-03         | 1.16E-03          | 0.00E+00                |
| Tennessee | Giles County      | 47055 | R                    | 5.98E-03                                                                | 6.12E-03 | 6.47E-03 | 6.68E-03 | 1.04E-02 | 1.44E-02 | 1.70E-02 | 1.73E-02 | 8.60E-06                         | 3.71E-03          | 5.80E-03         | 9.26E-04          | 0.00E+00                |
| Tennessee | Grainger County   | 47057 | R                    | 1.22E-02                                                                | 1.24E-02 | 1.33E-02 | 1.58E-02 | 1.59E-02 | 1.87E-02 | 2.01E-02 | 2.06E-02 | 7.85E-12                         | 3.35E-03          | 1.09E-02         | 1.71E-03          | 0.00E+00                |
| Tennessee | Greene County     | 47059 | R                    | 0.00E+00                                                                | 0.00E+00 | 1.05E-02 | 1.23E-02 | 1.79E-02 | 1.49E-02 | 2.17E-02 | 2.61E-02 | 1.93E-05                         | 2.61E-03          | 1.41E-02         | 1.22E-03          | 0.00E+00                |
| Tennessee | Grundy County     | 47061 | R                    | 8.15E-03                                                                | 8.32E-03 | 8.82E-03 | 1.01E-02 | 1.04E-02 | 1.12E-02 | 1.14E-02 | 1.14E-02 | 3.27E-05                         | 3.90E-03          | 5.76E-03         | 6.75E-04          | 0.00E+00                |
| Tennessee | Hamblen County    | 47063 | R                    | 2.00E-02                                                                | 2.06E-02 | 2.36E-02 | 3.35E-02 | 3.64E-02 | 4.26E-02 | 5.58E-02 | 6.12E-02 | 8.93E-07                         | 2.55E-03          | 3.03E-02         | 3.60E-03          | 0.00E+00                |
| Tennessee | Hamilton County   | 47065 | U                    | 4.03E-02                                                                | 4.80E-02 | 7.84E-02 | 1.03E-01 | 9.73E-02 | 1.22E-01 | 1.75E-01 | 1.85E-01 | 6.19E-04                         | 6.91E-03          | 7.72E-02         | 1.26E-02          | 0.00E+00                |
| Tennessee | Hancock County    | 47067 | R                    | 6.52E-03                                                                | 6.96E-03 | 8.26E-03 | 1.08E-02 | 1.13E-02 | 1.27E-02 | 1.29E-02 | 1.30E-02 | 7.62E-06                         | 4.85E-03          | 5.86E-03         | 5.41E-04          | 0.00E+00                |
| Tennessee | Hardeman County   | 47069 | R                    | 5.57E-03                                                                | 5.72E-03 | 6.16E-03 | 6.68E-03 | 7.61E-03 | 7.47E-03 | 9.28E-03 | 1.05E-02 | 4.12E-05                         | 3.02E-03          | 3.97E-03         | 5.72E-04          | 0.00E+00                |
| Tennessee | Hardin County     | 47071 | R                    | 5.69E-03                                                                | 6.03E-03 | 6.78E-03 | 7.08E-03 | 1.42E-02 | 1.67E-02 | 2.51E-02 | 2.63E-02 | 2.78E-09                         | 6.50E-03          | 6.90E-03         | 8.47E-04          | 0.00E+00                |
| Tennessee | Hawkins County    | 47073 | U                    | 1.23E-02                                                                | 1.25E-02 | 1.34E-02 | 1.46E-02 | 2.17E-02 | 2.22E-02 | 2.86E-02 | 3.34E-02 | 2.71E-04                         | 3.94E-03          | 1.57E-02         | 1.81E-03          | 0.00E+00                |
| Tennessee | Haywood County    | 47075 | U                    | 4.30E-03                                                                | 4.38E-03 | 4.47E-03 | 4.53E-03 | 8.04E-03 | 6.33E-03 | 1.01E-02 | 1.02E-02 | 1.92E-04                         | 1.44E-03          | 5.20E-03         | 1.21E-03          | 0.00E+00                |
| Tennessee | Henderson County  | 47077 | R                    | 5.97E-03                                                                | 6.33E-03 | 7.08E-03 | 7.68E-03 | 1.05E-02 | 1.32E-02 | 1.49E-02 | 1.49E-02 | 0.00E+00                         | 4.06E-03          | 5.62E-03         | 7.67E-04          | 0.00E+00                |
| Tennessee | Henry County      | 47079 | R                    | 2.72E-03                                                                | 5.43E-03 | 6.99E-03 | 7.88E-03 | 1.55E-02 | 1.62E-02 | 2.16E-02 | 3.55E-02 | 1.19E-07                         | 4.32E-03          | 9.59E-03         | 1.64E-03          | 0.00E+00                |
| Tennessee | Hickman County    | 47081 | R                    | 5.89E-03                                                                | 5.96E-03 | 6.14E-03 | 7.37E-03 | 9.24E-03 | 1.27E-02 | 1.34E-02 | 1.36E-02 | 0.00E+00                         | 3.93E-03          | 4.41E-03         | 9.08E-04          | 0.00E+00                |
| Tennessee | Houston County    | 47083 | R                    | 7.20E-03                                                                | 7.29E-03 | 7.54E-03 | 7.97E-03 | 1.07E-02 | 1.29E-02 | 1.59E-02 | 1.69E-02 | 0.00E+00                         | 4.77E-03          | 5.13E-03         | 7.65E-04          | 0.00E+00                |
| Tennessee | Humphreys County  | 47085 | R                    | 1.37E-03                                                                | 2.73E-03 | 5.84E-03 | 7.01E-03 | 1.07E-02 | 7.96E-03 | 1.29E-02 | 1.52E-02 | 0.00E+00                         | 5.58E-03          | 4.41E-03         | 7.12E-04          | 0.00E+00                |
| Tennessee | Jackson County    | 47087 | R                    | 7.67E-03                                                                | 7.91E-03 | 8.64E-03 | 9.50E-03 | 1.04E-02 | 1.15E-02 | 1.43E-02 | 1.52E-02 | 0.00E+00                         | 4.31E-03          | 5.37E-03         | 6.93E-04          | 0.00E+00                |
| Tennessee | Jefferson County  | 47089 | R                    | 1.29E-02                                                                | 1.35E-02 | 1.41E-02 | 1.51E-02 | 1.77E-02 | 2.25E-02 | 2.27E-02 | 2.29E-02 | 1.77E-09                         | 1.63E-03          | 1.38E-02         | 2.21E-03          | 0.00E+00                |
| Tennessee | Johnson County    | 47091 | R                    | 1.19E-02                                                                | 1.21E-02 | 1.26E-02 | 1.32E-02 | 1.88E-02 | 2.21E-02 | 2.21E-02 | 2.21E-02 | 1.73E-06                         | 7.24E-03          | 1.04E-02         | 1.15E-03          | 0.00E+00                |
| Tennessee | Knox County       | 47093 | U                    | 5.61E-02                                                                | 5.93E-02 | 7.91E-02 | 1.03E-01 | 9.88E-02 | 1.22E-01 | 1.53E-01 | 1.64E-01 | 1.13E-08                         | 1.89E-03          | 7.95E-02         | 1.74E-02          | 0.00E+00                |
| Tennessee | Lake County       | 47095 | R                    | 5.74E-03                                                                | 5.76E-03 | 5.82E-03 | 5.92E-03 | 5.86E-03 | 6.02E-03 | 6.08E-03 | 6.10E-03 | 7.78E-07                         | 8.16E-04          | 4.07E-03         | 9.76E-04          | 0.00E+00                |
| Tennessee | Lauderdale County | 47097 | R                    | 6.30E-03                                                                | 6.85E-03 | 9.27E-03 | 1.13E-02 | 1.39E-02 | 1.61E-02 | 1.89E-02 | 2.02E-02 | 1.81E-04                         | 3.09E-03          | 9.38E-03         | 1.29E-03          | 0.00E+00                |
| Tennessee | Lawrence County   | 47099 | R                    | 7.16E-03                                                                | 7.47E-03 | 7.82E-03 | 8.27E-03 | 1.20E-02 | 9.88E-03 | 1.64E-02 | 1.65E-02 | 4.95E-07                         | 3.40E-03          | 7.77E-03         | 8.30E-04          | 0.00E+00                |
| Tennessee | Lewis County      | 47101 | R                    | 8.04E-03                                                                | 8.34E-03 | 9.23E-03 | 1.07E-02 | 1.17E-02 | 1.22E-02 | 1.31E-02 | 1.34E-02 | 0.00E+00                         | 7.37E-03          | 3.78E-03         | 5.61E-04          | 0.00E+00                |
| Tennessee | Lincoln County    | 47103 | R                    | 6.06E-03                                                                | 6.06E-03 | 6.62E-03 | 7.14E-03 | 9.36E-03 | 8.97E-03 | 1.38E-02 | 1.40E-02 | 8.50E-07                         | 2.28E-03          | 6.28E-03         | 7.95E-04          | 0.00E+00                |
| Tennessee | Loudon County     | 47105 | U                    | 1.60E-02                                                                | 1.64E-02 | 1.73E-02 | 2.09E-02 | 2.14E-02 | 2.32E-02 | 2.49E-02 | 2.60E-02 | 6.68E-08                         | 2.51E-03          | 1.50E-02         | 3.91E-03          | 0.00E+00                |
| Tennessee | McMinn County     | 47107 | R                    | 1.30E-02                                                                | 1.35E-02 | 1.51E-02 | 1.82E-02 | 2.39E-02 | 2.55E-02 | 4.98E-02 | 5.70E-02 | 3.55E-05                         | 6.49E-03          | 1.56E-02         | 1.77E-03          | 0.00E+00                |
| Tennessee | McNairy County    | 47109 | R                    | 6.78E-03                                                                | 7.15E-03 | 7.67E-03 | 7.81E-03 | 1.05E-02 | 1.18E-02 | 1.36E-02 | 1.37E-02 | 1.08E-06                         | 4.50E-03          | 5.37E-03         | 6.77E-04          | 0.00E+00                |
| Tennessee | Macon County      | 47111 | R                    | 8.14E-03                                                                | 8.93E-03 | 1.13E-02 | 1.43E-02 | 1.22E-02 | 1.45E-02 | 5.41E-02 | 6.73E-02 | 0.00E+00                         | 2.73E-03          | 8.13E-03         | 1.37E-03          | 0.00E+00                |
| Tennessee | Madison County    | 47113 | U                    | 1.37E-02                                                                | 1.57E-02 | 1.69E-02 | 3.87E-02 | 3.72E-02 | 5.32E-02 | 7.02E-02 | 7.50E-02 | 4.17E-07                         | 2.48E-03          | 2.75E-02         | 7.25E-03          | 0.00E+00                |
| Tennessee | Marion County     | 47115 | U                    | 1.13E-02                                                                | 1.13E-02 | 1.13E-02 | 1.13E-02 | 1.24E-02 | 1.30E-02 | 1.39E-02 | 1.43E-02 | 4.28E-04                         | 3.66E-03          | 7.07E-03         | 1.20E-03          | 0.00E+00                |
| Tennessee | Marshall County   | 47117 | R                    | 5.80E-03                                                                | 5.86E-03 | 6.54E-03 | 1.41E-02 | 1.69E-02 | 2.46E-02 | 2.88E-02 | 3.01E-02 | 1.80E-09                         | 5.64E-03          | 1.01E-02         | 1.14E-03          | 0.00E+00                |
| Tennessee | Maury County      | 47119 | U                    | 6.91E-03                                                                | 7.10E-03 | 7.98E-03 | 9.54E-03 | 1.64E-02 | 1.80E-02 | 3.72E-02 | 3.95E-02 | 1.78E-08                         | 2.75E-03          | 1.04E-02         | 3.25E-03          | 0.00E+00                |
| Tennessee | Meigs County      | 47121 | R                    | 1.04E-02                                                                | 1.04E-02 | 1.05E-02 | 1.05E-02 | 1.06E-02 | 1.07E-02 | 1.07E-02 | 1.08E-02 | 1.39E-05                         | 3.29E-03          | 6.26E-03         | 1.01E-03          | 0.00E+00                |
| Tennessee | Monroe County     | 47123 | R                    | 1.12E-02                                                                | 1.18E-02 | 1.44E-02 | 1.89E-02 | 1.89E-02 | 2.17E-02 | 2.54E-02 | 2.69E-02 | 1.26E-05                         | 6.08E-03          | 1.11E-02         | 1.71E-03          | 0.00E+00                |
| Tennessee | Montgomery County | 47125 | U                    | 0.00E+00                                                                | 1.48E-02 | 2.67E-02 | 3.99E-02 | 3.89E-02 | 5.16E-02 | 6.24E-02 | 6.45E-02 | 0.00E+00                         | 2.80E-03          | 3.16E-02         | 4.46E-03          | 0.00E+00                |
| Tennessee | Moore County      | 47127 | U                    | 7.24E-03                                                                | 7.45E-03 | 8.08E-03 | 9.13E-03 | 8.86E-03 | 1.02E-02 | 1.08E-02 | 1.10E-02 | 2.53E-07                         | 2.59E-03          | 5.30E-03         | 9.71E-04          | 0.00E+00                |
| Tennessee | Morgan County     | 47129 | R                    | 9.67E-03                                                                | 9.95E-03 | 1.08E-02 | 1.28E-02 | 1.21E-02 | 1.28E-02 | 1.31E-02 | 1.33E-02 | 0.00E+00                         | 5.14E-03          | 6.23E-03         | 7.72E-04          | 0.00E+00                |
| Tennessee | Obion County      | 47131 | R                    | 4.47E-03                                                                | 4.88E-03 | 5.53E-03 | 7.63E-03 | 1.24E-02 | 1.57E-02 | 2.38E-02 | 2.46E-02 | 2.46E-07                         | 9.10E-04          | 1.02E-02         | 1.28E-03          | 0.00E+00                |
| Tennessee | Overton County    | 47133 | R                    | 7.87E-03                                                                | 7.97E-03 | 8.39E-03 | 9.16E-03 | 9.06E-03 | 9.68E-03 | 1.00E-02 | 1.01E-02 | 0.00E+00                         | 3.27E-03          | 5.21E-03         | 5.85E-04          | 0.00E+00                |

| State        | County               | FIPS         | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |                 |                 |                 |                 |                 |                 |                 |                                  |                   |                  |                   |                         |
|--------------|----------------------|--------------|----------------------|-------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|              |                      |              |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |                 |                 |                 |                 |                 |                 |                 | Contribution to Average from ... |                   |                  |                   |                         |
|              |                      |              |                      | 5th                                                                     | 10th            | 25th            | Median          | Average         | 75th            | 90th            | 95th            | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Tennessee    | Perry County         | 47135        | R                    | 6.14E-03                                                                | 6.18E-03        | 6.31E-03        | 6.52E-03        | 6.39E-03        | 6.73E-03        | 6.85E-03        | 6.89E-03        | 0.00E+00                         | 4.35E-03          | 1.81E-03         | 2.35E-04          | 0.00E+00                |
| Tennessee    | Pickett County       | 47137        | R                    | 1.17E-03                                                                | 2.34E-03        | 5.85E-03        | 8.32E-03        | 1.13E-02        | 9.87E-03        | 1.17E-02        | 1.24E-02        | 0.00E+00                         | 5.36E-03          | 5.07E-03         | 8.74E-04          | 0.00E+00                |
| Tennessee    | Polk County          | 47139        | R                    | 9.65E-03                                                                | 9.66E-03        | 9.70E-03        | 1.08E-02        | 1.05E-02        | 1.20E-02        | 1.22E-02        | 1.22E-02        | 1.16E-04                         | 4.70E-03          | 4.97E-03         | 6.61E-04          | 0.00E+00                |
| Tennessee    | Putnam County        | 47141        | U                    | 0.00E+00                                                                | 0.00E+00        | 0.00E+00        | 1.39E-02        | 2.68E-02        | 3.11E-02        | 4.52E-02        | 5.05E-02        | 0.00E+00                         | 3.20E-03          | 1.92E-02         | 4.40E-03          | 0.00E+00                |
| Tennessee    | Rhea County          | 47143        | R                    | 1.17E-02                                                                | 1.17E-02        | 1.18E-02        | 1.47E-02        | 2.17E-02        | 1.83E-02        | 2.94E-02        | 3.32E-02        | 1.18E-05                         | 5.81E-03          | 1.41E-02         | 1.83E-03          | 0.00E+00                |
| Tennessee    | Roane County         | 47145        | R                    | 1.44E-02                                                                | 1.56E-02        | 1.80E-02        | 2.18E-02        | 2.32E-02        | 2.42E-02        | 2.71E-02        | 3.44E-02        | 0.00E+00                         | 5.70E-03          | 1.53E-02         | 2.14E-03          | 0.00E+00                |
| Tennessee    | Robertson County     | 47147        | U                    | 4.72E-03                                                                | 9.44E-03        | 1.30E-02        | 1.70E-02        | 2.17E-02        | 2.60E-02        | 3.03E-02        | 3.17E-02        | 0.00E+00                         | 1.57E-03          | 1.62E-02         | 3.87E-03          | 0.00E+00                |
| Tennessee    | Rutherford County    | 47149        | U                    | 1.52E-02                                                                | 1.65E-02        | 2.43E-02        | 3.68E-02        | 3.88E-02        | 5.59E-02        | 6.97E-02        | 7.89E-02        | 0.00E+00                         | 2.66E-03          | 2.62E-02         | 9.86E-03          | 0.00E+00                |
| Tennessee    | Scott County         | 47151        | R                    | 9.62E-03                                                                | 1.02E-02        | 1.20E-02        | 1.77E-02        | 1.78E-02        | 1.79E-02        | 2.20E-02        | 2.34E-02        | 0.00E+00                         | 1.02E-02          | 6.98E-03         | 6.64E-04          | 0.00E+00                |
| Tennessee    | Sequatchie County    | 47153        | R                    | 1.09E-02                                                                | 1.22E-02        | 1.61E-02        | 2.26E-02        | 1.64E-02        | 2.90E-02        | 3.29E-02        | 3.42E-02        | 2.10E-05                         | 4.80E-03          | 9.80E-03         | 1.78E-03          | 0.00E+00                |
| Tennessee    | Sevier County        | 47155        | U                    | 1.09E-02                                                                | 1.14E-02        | 1.56E-02        | 1.96E-02        | 2.30E-02        | 3.00E-02        | 3.57E-02        | 4.44E-02        | 0.00E+00                         | 4.53E-03          | 1.57E-02         | 2.76E-03          | 0.00E+00                |
| Tennessee    | Shelby County        | 47157        | U                    | 2.76E-02                                                                | 4.72E-02        | 5.82E-02        | 6.92E-02        | 7.00E-02        | 8.50E-02        | 9.73E-02        | 1.07E-01        | 7.37E-04                         | 9.51E-04          | 5.36E-02         | 1.47E-02          | 0.00E+00                |
| Tennessee    | Smith County         | 47159        | R                    | 1.02E-02                                                                | 1.04E-02        | 1.09E-02        | 1.14E-02        | 1.44E-02        | 1.16E-02        | 2.12E-02        | 2.44E-02        | 0.00E+00                         | 3.86E-03          | 9.06E-03         | 1.49E-03          | 0.00E+00                |
| Tennessee    | Stewart County       | 47161        | R                    | 1.09E-03                                                                | 2.17E-03        | 4.69E-03        | 6.40E-03        | 8.87E-03        | 7.31E-03        | 1.81E-02        | 2.35E-02        | 0.00E+00                         | 4.67E-03          | 3.59E-03         | 6.11E-04          | 0.00E+00                |
| Tennessee    | Sullivan County      | 47163        | U                    | 3.08E-02                                                                | 3.48E-02        | 4.29E-02        | 6.08E-02        | 5.87E-02        | 7.42E-02        | 9.12E-02        | 1.11E-01        | 1.73E-03                         | 3.39E-03          | 4.72E-02         | 6.37E-03          | 0.00E+00                |
| Tennessee    | Sumner County        | 47165        | U                    | 2.13E-02                                                                | 2.16E-02        | 3.02E-02        | 3.65E-02        | 4.45E-02        | 5.42E-02        | 6.24E-02        | 6.53E-02        | 0.00E+00                         | 1.48E-03          | 3.49E-02         | 8.13E-03          | 0.00E+00                |
| Tennessee    | Tipton County        | 47167        | U                    | 1.36E-02                                                                | 1.38E-02        | 1.47E-02        | 1.57E-02        | 2.25E-02        | 2.08E-02        | 3.32E-02        | 3.34E-02        | 7.48E-04                         | 9.05E-04          | 1.72E-02         | 3.62E-03          | 0.00E+00                |
| Tennessee    | Trousdale County     | 47169        | R                    | 2.25E-03                                                                | 4.50E-03        | 1.13E-02        | 2.25E-02        | 2.26E-02        | 2.26E-02        | 2.27E-02        | 2.27E-02        | 0.00E+00                         | 6.31E-03          | 1.45E-02         | 1.81E-03          | 0.00E+00                |
| Tennessee    | Unicoi County        | 47171        | U                    | 1.74E-02                                                                | 1.80E-02        | 2.00E-02        | 4.01E-02        | 4.40E-02        | 5.91E-02        | 5.92E-02        | 5.92E-02        | 1.47E-04                         | 1.21E-02          | 2.82E-02         | 3.64E-03          | 0.00E+00                |
| Tennessee    | Union County         | 47173        | U                    | 1.58E-02                                                                | 1.72E-02        | 2.15E-02        | 2.63E-02        | 2.56E-02        | 2.90E-02        | 2.97E-02        | 2.99E-02        | 0.00E+00                         | 3.59E-03          | 1.83E-02         | 3.72E-03          | 0.00E+00                |
| Tennessee    | Van Buren County     | 47175        | R                    | 8.54E-03                                                                | 8.64E-03        | 8.96E-03        | 9.49E-03        | 1.01E-02        | 1.19E-02        | 1.33E-02        | 1.37E-02        | 2.01E-07                         | 5.42E-03          | 3.95E-03         | 7.56E-04          | 0.00E+00                |
| Tennessee    | Warren County        | 47177        | R                    | 1.02E-02                                                                | 1.02E-02        | 1.17E-02        | 1.24E-02        | 2.15E-02        | 3.11E-02        | 3.65E-02        | 3.83E-02        | 3.46E-07                         | 2.90E-03          | 1.53E-02         | 3.26E-03          | 0.00E+00                |
| Tennessee    | Washington County    | 47179        | U                    | 2.09E-02                                                                | 2.29E-02        | 3.80E-02        | 5.40E-02        | 5.35E-02        | 7.99E-02        | 9.72E-02        | 1.08E-01        | 4.99E-04                         | 2.09E-03          | 4.30E-02         | 7.88E-03          | 0.00E+00                |
| Tennessee    | Wayne County         | 47181        | R                    | 6.69E-03                                                                | 6.72E-03        | 6.82E-03        | 7.56E-03        | 8.46E-03        | 9.20E-03        | 1.09E-02        | 1.15E-02        | 2.71E-10                         | 5.02E-03          | 3.14E-03         | 3.10E-04          | 0.00E+00                |
| Tennessee    | Weakley County       | 47183        | R                    | 5.30E-03                                                                | 5.54E-03        | 5.98E-03        | 6.72E-03        | 9.10E-03        | 9.11E-03        | 1.25E-02        | 1.26E-02        | 0.00E+00                         | 1.34E-03          | 6.88E-03         | 8.78E-04          | 0.00E+00                |
| Tennessee    | White County         | 47185        | R                    | 8.56E-03                                                                | 8.91E-03        | 9.62E-03        | 9.82E-03        | 1.37E-02        | 1.16E-02        | 2.16E-02        | 2.63E-02        | 0.00E+00                         | 4.29E-03          | 8.33E-03         | 1.12E-03          | 0.00E+00                |
| Tennessee    | Williamson County    | 47187        | U                    | 1.63E-02                                                                | 1.72E-02        | 2.05E-02        | 2.84E-02        | 3.47E-02        | 4.01E-02        | 5.06E-02        | 6.01E-02        | 0.00E+00                         | 2.09E-03          | 2.35E-02         | 9.03E-03          | 0.00E+00                |
| Tennessee    | Wilson County        | 47189        | U                    | 1.45E-02                                                                | 1.64E-02        | 2.10E-02        | 3.46E-02        | 3.34E-02        | 4.80E-02        | 5.60E-02        | 5.67E-02        | 0.00E+00                         | 1.85E-03          | 2.48E-02         | 6.81E-03          | 0.00E+00                |
| <b>Texas</b> | <b>Statewide</b>     | <b>48000</b> | <b>-</b>             | <b>9.26E-04</b>                                                         | <b>3.94E-03</b> | <b>1.59E-02</b> | <b>4.72E-02</b> | <b>6.21E-02</b> | <b>7.94E-02</b> | <b>1.14E-01</b> | <b>1.46E-01</b> | <b>1.09E-02</b>                  | <b>1.99E-03</b>   | <b>3.93E-02</b>  | <b>9.81E-03</b>   | <b>0.00E+00</b>         |
| Texas        | State Urban Counties | 48000        | U                    | 2.09E-03                                                                | 9.99E-03        | 2.72E-02        | 5.49E-02        | 6.78E-02        | 8.56E-02        | 1.21E-01        | 1.51E-01        | 1.21E-02                         | 1.80E-03          | 4.31E-02         | 1.08E-02          | 0.00E+00                |
| Texas        | State Rural Counties | 48000        | R                    | 3.39E-04                                                                | 6.46E-04        | 2.12E-03        | 6.08E-03        | 1.10E-02        | 1.10E-02        | 2.34E-02        | 3.24E-02        | 4.50E-04                         | 3.68E-03          | 6.02E-03         | 8.93E-04          | 0.00E+00                |
| Texas        | Anderson County      | 48001        | R                    | 7.31E-03                                                                | 7.44E-03        | 7.91E-03        | 2.06E-02        | 2.20E-02        | 3.09E-02        | 3.49E-02        | 3.71E-02        | 3.31E-12                         | 8.57E-03          | 1.28E-02         | 6.81E-04          | 0.00E+00                |
| Texas        | Andrews County       | 48003        | U                    | 5.79E-04                                                                | 5.95E-04        | 6.43E-04        | 3.12E-03        | 5.38E-03        | 6.24E-03        | 7.44E-03        | 7.84E-03        | 3.21E-05                         | 3.22E-07          | 2.91E-03         | 2.43E-03          | 0.00E+00                |
| Texas        | Angelina County      | 48005        | U                    | 8.14E-03                                                                | 8.53E-03        | 1.11E-02        | 2.81E-02        | 2.54E-02        | 3.73E-02        | 5.00E-02        | 5.14E-02        | 6.91E-05                         | 7.76E-03          | 1.43E-02         | 3.30E-03          | 0.00E+00                |
| Texas        | Aransas County       | 48007        | R                    | 6.25E-03                                                                | 6.96E-03        | 9.07E-03        | 1.08E-02        | 1.71E-02        | 1.76E-02        | 3.16E-02        | 3.62E-02        | 1.67E-06                         | 2.64E-03          | 1.14E-02         | 3.07E-03          | 0.00E+00                |
| Texas        | Archer County        | 48009        | R                    | 1.35E-03                                                                | 1.35E-03        | 1.36E-03        | 1.37E-03        | 2.83E-03        | 4.16E-03        | 5.84E-03        | 6.40E-03        | 0.00E+00                         | 1.11E-06          | 2.24E-03         | 5.89E-04          | 0.00E+00                |
| Texas        | Armstrong County     | 48011        | R                    | 9.57E-04                                                                | 9.73E-04        | 1.02E-03        | 1.10E-03        | 1.03E-03        | 1.18E-03        | 1.23E-03        | 1.24E-03        | 2.47E-07                         | 2.69E-07          | 8.68E-04         | 1.63E-04          | 0.00E+00                |
| Texas        | Atascosa County      | 48013        | U                    | 2.78E-03                                                                | 3.41E-03        | 4.95E-03        | 7.77E-03        | 9.52E-03        | 1.18E-02        | 1.38E-02        | 1.44E-02        | 1.13E-09                         | 4.65E-05          | 7.98E-03         | 1.49E-03          | 0.00E+00                |
| Texas        | Austin County        | 48015        | R                    | 5.11E-03                                                                | 5.27E-03        | 5.75E-03        | 6.69E-03        | 6.57E-03        | 7.22E-03        | 7.61E-03        | 7.74E-03        | 4.53E-04                         | 1.92E-03          | 3.50E-03         | 6.89E-04          | 0.00E+00                |
| Texas        | Bailey County        | 48017        | U                    | 3.91E-04                                                                | 4.03E-04        | 4.38E-04        | 4.98E-04        | 5.90E-04        | 5.57E-04        | 5.93E-04        | 6.05E-04        | 0.00E+00                         | 5.74E-06          | 4.39E-04         | 1.46E-04          | 0.00E+00                |
| Texas        | Bandera County       | 48019        | R                    | 3.38E-03                                                                | 3.64E-03        | 4.42E-03        | 6.13E-03        | 6.74E-03        | 9.54E-03        | 1.34E-02        | 1.47E-02        | 2.73E-10                         | 1.79E-04          | 4.99E-03         | 1.57E-03          | 0.00E+00                |
| Texas        | Bastrop County       | 48021        | U                    | 9.41E-03                                                                | 1.01E-02        | 1.12E-02        | 1.24E-02        | 1.47E-02        | 1.63E-02        | 2.37E-02        | 2.57E-02        | 0.00E+00                         | 3.94E-03          | 8.34E-03         | 2.38E-03          | 0.00E+00                |
| Texas        | Baylor County        | 48023        | U                    | 1.54E-03                                                                | 1.54E-03        | 1.54E-03        | 1.55E-03        | 1.54E-03        | 1.55E-03        | 1.56E-03        | 1.56E-03        | 0.00E+00                         | 1.08E-07          | 5.97E-04         | 9.45E-04          | 0.00E+00                |
| Texas        | Bee County           | 48025        | R                    | 3.52E-03                                                                | 3.76E-03        | 5.28E-03        | 1.71E-02        | 1.72E-02        | 2.61E-02        | 2.77E-02        | 2.84E-02        | 3.79E-06                         | 4.49E-03          | 1.18E-02         | 9.12E-04          | 0.00E+00                |
| Texas        | Bell County          | 48027        | U                    | 1.26E-02                                                                | 1.58E-02        | 2.69E-02        | 4.54E-02        | 3.74E-02        | 5.25E-02        | 6.22E-02        | 6.37E-02        | 0.00E+00                         | 2.76E-04          | 3.22E-02         | 4.88E-03          | 0.00E+00                |
| Texas        | Bexar County         | 48029        | U                    | 4.06E-02                                                                | 4.85E-02        | 6.42E-02        | 8.64E-02        | 8.82E-02        | 1.06E-01        | 1.27E-01        | 1.35E-01        | 2.34E-08                         | 9.70E-05          | 7.25E-02         | 1.56E-02          | 0.00E+00                |
| Texas        | Blanco County        | 48031        | R                    | 1.28E-03                                                                | 1.34E-03        | 1.52E-03        | 1.81E-03        | 1.85E-03        | 2.10E-03        | 2.28E-03        | 2.34E-03        | 1.29E-11                         | 2.79E-05          | 1.38E-03         | 4.50E-04          | 0.00E+00                |
| Texas        | Borden County        | 48033        | R                    | 1.65E-04                                                                | 1.65E-04        | 1.65E-04        | 1.65E-04        | 1.65E-04        | 1.65E-04        | 1.65E-04        | 1.65E-04        | 1.80E-10                         | 5.03E-08          | 1.11E-04         | 5.41E-05          | 0.00E+00                |
| Texas        | Bosque County        | 48035        | R                    | 1.83E-03                                                                | 1.87E-03        | 1.98E-03        | 2.55E-03        | 5.64E-03        | 5.08E-03        | 7.33E-03        | 1.17E-02        | 6.15E-08                         | 2.63E-04          | 4.88E-03         | 4.97E-04          | 0.00E+00                |
| Texas        | Bowie County         | 48037        | U                    | 7.15E-03                                                                | 8.42E-03        | 1.17E-02        | 3.33E-02        | 2.59E-02        | 4.34E-02        | 4.97E-02        | 5.00E-02        | 9.03E-09                         | 3.46E-03          | 1.79E-02         | 4.61E-03          | 0.00E+00                |
| Texas        | Brazoria County      | 48039        | U                    | 0.00E+00                                                                | 9.30E-03        | 1.47E-02        | 2.66E-02        | 3.37E-02        | 4.10E-02        | 5.04E-02        | 6.04E-02        | 1.08E-02                         | 6.54E-03          | 1.30E-02         | 3.31E-03          | 0.00E+00                |
| Texas        | Brazos County        | 48041        | U                    | 2.30E-02                                                                | 4.24E-02        | 6.38E-02        | 6.68E-02        | 5.99E-02        | 7.49E-02        | 7.96E-02        | 8.16E-02        | 5.57E-06                         | 7.41E-03          | 4.17E-02         | 1.09E-02          | 0.00E+00                |

| State | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Texas | Brewster County      | 48043 | U                    | 1.80E-03                                                                | 1.82E-03 | 1.89E-03 | 6.49E-03 | 8.35E-03 | 1.11E-02 | 1.11E-02 | 1.11E-02 | 0.00E+00                         | 2.24E-05          | 5.64E-03         | 2.68E-03          | 0.00E+00                |
| Texas | Briscoe County       | 48045 | R                    | 2.51E-04                                                                | 2.53E-04 | 2.56E-04 | 2.62E-04 | 2.66E-04 | 2.68E-04 | 2.72E-04 | 2.73E-04 | 0.00E+00                         | 1.19E-07          | 2.10E-04         | 5.60E-05          | 0.00E+00                |
| Texas | Brooks County        | 48047 | U                    | 1.73E-03                                                                | 2.01E-03 | 2.83E-03 | 4.20E-03 | 5.49E-03 | 5.57E-03 | 6.39E-03 | 6.66E-03 | 5.68E-08                         | 1.80E-05          | 3.53E-03         | 1.94E-03          | 0.00E+00                |
| Texas | Brown County         | 48049 | U                    | 3.46E-03                                                                | 3.98E-03 | 4.85E-03 | 1.11E-02 | 1.15E-02 | 1.45E-02 | 1.66E-02 | 1.70E-02 | 0.00E+00                         | 8.06E-05          | 8.34E-03         | 3.04E-03          | 0.00E+00                |
| Texas | Burleson County      | 48051 | R                    | 5.59E-03                                                                | 6.03E-03 | 7.35E-03 | 7.80E-03 | 1.07E-02 | 1.22E-02 | 1.53E-02 | 1.64E-02 | 0.00E+00                         | 4.56E-03          | 5.23E-03         | 9.44E-04          | 0.00E+00                |
| Texas | Burnet County        | 48053 | R                    | 3.18E-03                                                                | 3.26E-03 | 3.53E-03 | 5.21E-03 | 6.46E-03 | 8.07E-03 | 8.66E-03 | 8.98E-03 | 1.47E-12                         | 1.17E-05          | 4.05E-03         | 2.40E-03          | 0.00E+00                |
| Texas | Caldwell County      | 48055 | U                    | 1.05E-02                                                                | 1.06E-02 | 1.15E-02 | 2.38E-02 | 1.88E-02 | 2.52E-02 | 2.53E-02 | 2.53E-02 | 1.11E-11                         | 4.49E-03          | 1.17E-02         | 2.67E-03          | 0.00E+00                |
| Texas | Calhoun County       | 48057 | U                    | 8.58E-04                                                                | 1.72E-03 | 3.56E-03 | 7.43E-03 | 1.52E-02 | 1.93E-02 | 2.39E-02 | 2.48E-02 | 6.37E-04                         | 2.42E-03          | 4.78E-03         | 7.36E-03          | 0.00E+00                |
| Texas | Callahan County      | 48059 | R                    | 1.33E-03                                                                | 1.42E-03 | 1.72E-03 | 2.20E-03 | 2.49E-03 | 2.69E-03 | 2.98E-03 | 3.08E-03 | 0.00E+00                         | 2.67E-06          | 1.96E-03         | 5.30E-04          | 0.00E+00                |
| Texas | Cameron County       | 48061 | U                    | 7.07E-03                                                                | 1.49E-02 | 2.13E-02 | 3.38E-02 | 3.40E-02 | 4.53E-02 | 5.55E-02 | 5.88E-02 | 0.00E+00                         | 1.83E-05          | 2.70E-02         | 6.91E-03          | 0.00E+00                |
| Texas | Camp County          | 48063 | R                    | 7.94E-03                                                                | 8.75E-03 | 1.12E-02 | 1.53E-02 | 1.44E-02 | 1.93E-02 | 2.18E-02 | 2.26E-02 | 8.84E-06                         | 6.09E-03          | 7.39E-03         | 9.21E-04          | 0.00E+00                |
| Texas | Carson County        | 48065 | R                    | 1.42E-03                                                                | 1.45E-03 | 1.52E-03 | 1.65E-03 | 1.68E-03 | 1.78E-03 | 1.85E-03 | 1.88E-03 | 2.14E-04                         | 1.38E-06          | 1.14E-03         | 3.27E-04          | 0.00E+00                |
| Texas | Cass County          | 48067 | R                    | 6.75E-03                                                                | 6.96E-03 | 7.46E-03 | 1.12E-02 | 1.78E-02 | 2.48E-02 | 2.89E-02 | 3.19E-02 | 5.01E-06                         | 9.06E-03          | 8.07E-03         | 7.11E-04          | 0.00E+00                |
| Texas | Castro County        | 48069 | R                    | 6.29E-04                                                                | 6.34E-04 | 6.49E-04 | 6.73E-04 | 1.29E-03 | 1.29E-03 | 1.66E-03 | 1.78E-03 | 0.00E+00                         | 3.43E-05          | 1.07E-03         | 1.86E-04          | 0.00E+00                |
| Texas | Chambers County      | 48071 | U                    | 1.06E-03                                                                | 2.12E-03 | 4.93E-03 | 7.17E-03 | 9.42E-03 | 9.44E-03 | 1.28E-02 | 1.41E-02 | 4.01E-03                         | 5.32E-04          | 3.70E-03         | 1.18E-03          | 0.00E+00                |
| Texas | Cherokee County      | 48073 | R                    | 6.16E-03                                                                | 6.64E-03 | 8.83E-03 | 2.49E-02 | 2.11E-02 | 3.07E-02 | 3.61E-02 | 4.03E-02 | 1.97E-06                         | 1.03E-02          | 9.98E-03         | 7.51E-04          | 0.00E+00                |
| Texas | Childress County     | 48075 | U                    | 1.06E-03                                                                | 1.21E-03 | 1.63E-03 | 2.34E-03 | 3.38E-03 | 3.05E-03 | 3.48E-03 | 3.62E-03 | 0.00E+00                         | 3.62E-07          | 1.50E-03         | 1.88E-03          | 0.00E+00                |
| Texas | Clay County          | 48077 | R                    | 1.52E-03                                                                | 1.57E-03 | 1.72E-03 | 2.56E-03 | 2.61E-03 | 3.83E-03 | 4.77E-03 | 5.08E-03 | 0.00E+00                         | 3.64E-05          | 2.05E-03         | 5.19E-04          | 0.00E+00                |
| Texas | Cochran County       | 48079 | R                    | 3.09E-04                                                                | 3.23E-04 | 3.68E-04 | 4.42E-04 | 3.50E-04 | 5.16E-04 | 5.60E-04 | 5.75E-04 | 0.00E+00                         | 3.87E-06          | 2.64E-04         | 8.19E-05          | 0.00E+00                |
| Texas | Coke County          | 48081 | R                    | 5.87E-04                                                                | 6.18E-04 | 7.10E-04 | 8.65E-04 | 8.37E-04 | 1.02E-03 | 1.11E-03 | 1.14E-03 | 8.28E-12                         | 1.41E-06          | 6.25E-04         | 2.11E-04          | 0.00E+00                |
| Texas | Coleman County       | 48083 | U                    | 5.33E-04                                                                | 5.81E-04 | 7.26E-04 | 8.52E-04 | 2.66E-03 | 1.23E-03 | 2.90E-03 | 3.46E-03 | 0.00E+00                         | 1.17E-06          | 1.79E-03         | 8.69E-04          | 0.00E+00                |
| Texas | Collin County        | 48085 | U                    | 1.11E-02                                                                | 1.36E-02 | 2.97E-02 | 4.70E-02 | 4.61E-02 | 5.66E-02 | 6.16E-02 | 6.72E-02 | 4.19E-07                         | 1.83E-03          | 3.45E-02         | 9.72E-03          | 0.00E+00                |
| Texas | Collingsworth County | 48087 | R                    | 8.23E-04                                                                | 1.00E-03 | 1.53E-03 | 2.42E-03 | 3.25E-03 | 3.30E-03 | 3.83E-03 | 4.01E-03 | 0.00E+00                         | 1.25E-04          | 2.99E-03         | 1.43E-04          | 0.00E+00                |
| Texas | Colorado County      | 48089 | R                    | 3.17E-03                                                                | 3.34E-03 | 3.86E-03 | 5.40E-03 | 7.30E-03 | 9.24E-03 | 1.27E-02 | 1.39E-02 | 7.20E-05                         | 4.70E-03          | 2.16E-03         | 3.70E-04          | 0.00E+00                |
| Texas | Comal County         | 48091 | U                    | 6.88E-03                                                                | 6.92E-03 | 1.22E-02 | 1.59E-02 | 1.88E-02 | 2.87E-02 | 3.16E-02 | 3.63E-02 | 1.87E-10                         | 8.91E-04          | 1.03E-02         | 7.57E-03          | 0.00E+00                |
| Texas | Comanche County      | 48093 | R                    | 9.47E-04                                                                | 9.77E-04 | 1.06E-03 | 1.54E-03 | 3.05E-03 | 1.90E-03 | 4.61E-03 | 5.52E-03 | 0.00E+00                         | 1.79E-04          | 2.56E-03         | 3.07E-04          | 0.00E+00                |
| Texas | Concho County        | 48095 | R                    | 3.92E-04                                                                | 4.06E-04 | 4.46E-04 | 5.12E-04 | 4.58E-04 | 5.79E-04 | 6.19E-04 | 6.32E-04 | 0.00E+00                         | 7.20E-07          | 3.72E-04         | 8.55E-05          | 0.00E+00                |
| Texas | Cooke County         | 48097 | R                    | 3.43E-03                                                                | 3.98E-03 | 4.43E-03 | 1.24E-02 | 1.11E-02 | 1.91E-02 | 2.00E-02 | 2.10E-02 | 3.97E-08                         | 1.55E-03          | 8.66E-03         | 9.15E-04          | 0.00E+00                |
| Texas | Coryell County       | 48099 | U                    | 7.40E-03                                                                | 8.87E-03 | 9.83E-03 | 1.25E-02 | 1.37E-02 | 1.75E-02 | 2.15E-02 | 2.22E-02 | 0.00E+00                         | 3.75E-04          | 1.17E-02         | 1.71E-03          | 0.00E+00                |
| Texas | Cottle County        | 48101 | 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                         | 5.15E-08          | 2.73E-04         | 4.05E-05          | 0.00E+00                |
| Texas | Crane County         | 48103 | U                    | 1.15E-03                                                                | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.15E-03 | 1.86E-04                         | 4.30E-07          | 7.78E-04         | 1.85E-04          | 0.00E+00                |
| Texas | Crockett County      | 48105 | R                    | 6.70E-05                                                                | 6.70E-05 | 6.70E-05 | 6.70E-05 | 6.70E-05 | 6.70E-05 | 6.70E-05 | 6.70E-05 | 0.00E+00                         | 7.40E-08          | 4.98E-05         | 1.71E-05          | 0.00E+00                |
| Texas | Crosby County        | 48107 | R                    | 1.66E-03                                                                | 1.71E-03 | 1.87E-03 | 2.14E-03 | 2.17E-03 | 2.63E-03 | 2.93E-03 | 3.02E-03 | 0.00E+00                         | 4.58E-07          | 1.86E-03         | 3.18E-04          | 0.00E+00                |
| Texas | Culberson County     | 48109 | U                    | 1.02E-04                                                                | 1.10E-04 | 1.32E-04 | 1.69E-04 | 2.30E-04 | 2.07E-04 | 2.29E-04 | 2.37E-04 | 7.63E-14                         | 4.44E-05          | 1.31E-04         | 5.42E-05          | 0.00E+00                |
| Texas | Dallam County        | 48111 | U                    | 1.48E-03                                                                | 1.54E-03 | 1.75E-03 | 2.08E-03 | 6.12E-03 | 4.86E-03 | 6.52E-03 | 7.08E-03 | 0.00E+00                         | 2.39E-04          | 2.11E-03         | 3.77E-03          | 0.00E+00                |
| Texas | Dallas County        | 48113 | U                    | 5.47E-02                                                                | 5.83E-02 | 6.94E-02 | 8.22E-02 | 8.39E-02 | 9.65E-02 | 1.22E-01 | 1.44E-01 | 1.16E-05                         | 4.11E-04          | 6.60E-02         | 1.75E-02          | 0.00E+00                |
| Texas | Dawson County        | 48115 | U                    | 9.36E-04                                                                | 9.65E-04 | 1.07E-03 | 1.23E-03 | 4.20E-03 | 2.74E-03 | 5.15E-03 | 6.11E-03 | 5.29E-07                         | 3.64E-07          | 2.14E-03         | 2.06E-03          | 0.00E+00                |
| Texas | Deaf Smith County    | 48117 | U                    | 1.38E-03                                                                | 1.63E-03 | 2.38E-03 | 6.71E-03 | 1.18E-02 | 1.56E-02 | 1.75E-02 | 1.82E-02 | 1.77E-06                         | 7.33E-06          | 6.28E-03         | 5.47E-03          | 0.00E+00                |
| Texas | Delta County         | 48119 | R                    | 9.90E-03                                                                | 1.09E-02 | 1.40E-02 | 1.92E-02 | 1.89E-02 | 2.43E-02 | 2.74E-02 | 2.84E-02 | 0.00E+00                         | 1.20E-02          | 6.30E-03         | 5.34E-04          | 0.00E+00                |
| Texas | Denton County        | 48121 | U                    | 1.64E-02                                                                | 2.48E-02 | 3.43E-02 | 4.27E-02 | 4.49E-02 | 5.74E-02 | 6.64E-02 | 7.17E-02 | 7.18E-07                         | 3.62E-04          | 3.36E-02         | 1.10E-02          | 0.00E+00                |
| Texas | DeWitt County        | 48123 | R                    | 3.65E-03                                                                | 3.95E-03 | 4.84E-03 | 7.17E-03 | 6.82E-03 | 7.24E-03 | 8.88E-03 | 9.43E-03 | 4.10E-05                         | 4.01E-03          | 2.41E-03         | 3.56E-04          | 0.00E+00                |
| Texas | Dickens County       | 48125 | R                    | 3.34E-04                                                                | 3.44E-04 | 3.74E-04 | 4.24E-04 | 4.58E-04 | 4.75E-04 | 5.05E-04 | 5.15E-04 | 0.00E+00                         | 6.77E-08          | 4.05E-04         | 5.26E-05          | 0.00E+00                |
| Texas | Dimmit County        | 48127 | U                    | 7.24E-04                                                                | 7.38E-04 | 7.80E-04 | 8.51E-04 | 1.17E-03 | 1.08E-03 | 1.22E-03 | 1.26E-03 | 0.00E+00                         | 2.94E-05          | 9.69E-04         | 1.75E-04          | 0.00E+00                |
| Texas | Donley County        | 48129 | R                    | 9.11E-04                                                                | 9.54E-04 | 1.08E-03 | 1.30E-03 | 2.80E-03 | 2.72E-03 | 3.57E-03 | 3.86E-03 | 1.38E-06                         | 4.30E-07          | 2.61E-03         | 1.96E-04          | 0.00E+00                |
| Texas | Duval County         | 48131 | U                    | 4.51E-04                                                                | 4.61E-04 | 4.90E-04 | 5.21E-04 | 1.32E-03 | 1.06E-03 | 2.00E-03 | 2.31E-03 | 3.81E-08                         | 2.86E-06          | 1.03E-03         | 2.89E-04          | 0.00E+00                |
| Texas | Eastland County      | 48133 | U                    | 1.25E-03                                                                | 1.25E-03 | 1.27E-03 | 1.41E-03 | 1.43E-03 | 1.53E-03 | 1.54E-03 | 1.54E-03 | 0.00E+00                         | 4.84E-05          | 1.12E-03         | 2.68E-04          | 0.00E+00                |
| Texas | Ector County         | 48135 | U                    | 2.53E-02                                                                | 3.00E-02 | 4.21E-02 | 5.64E-02 | 6.18E-02 | 7.12E-02 | 9.43E-02 | 1.12E-01 | 2.75E-02                         | 3.09E-05          | 2.85E-02         | 5.73E-03          | 0.00E+00                |
| Texas | Edwards County       | 48137 | R                    | 2.10E-04                                                                | 2.17E-04 | 2.37E-04 | 2.72E-04 | 3.01E-04 | 3.07E-04 | 3.28E-04 | 3.35E-04 | 0.00E+00                         | 2.95E-05          | 2.25E-04         | 4.63E-05          | 0.00E+00                |
| Texas | Ellis County         | 48139 | U                    | 7.06E-03                                                                | 7.41E-03 | 1.03E-02 | 1.90E-02 | 2.15E-02 | 2.96E-02 | 3.24E-02 | 3.37E-02 | 3.04E-05                         | 2.99E-04          | 1.73E-02         | 3.86E-03          | 0.00E+00                |
| Texas | El Paso County       | 48141 | U                    | 2.61E-02                                                                | 3.30E-02 | 4.21E-02 | 5.49E-02 | 5.47E-02 | 6.65E-02 | 8.12E-02 | 8.76E-02 | 2.17E-10                         | 7.00E-05          | 4.70E-02         | 7.61E-03          | 0.00E+00                |
| Texas | Erath County         | 48143 | U                    | 1.60E-03                                                                | 1.61E-03 | 2.87E-03 | 1.36E-02 | 1.24E-02 | 1.59E-02 | 1.75E-02 | 1.87E-02 | 5.07E-08                         | 6.11E-04          | 8.65E-03         | 3.13E-03          | 0.00E+00                |
| Texas | Falls County         | 48145 | R                    | 3.87E-03                                                                | 4.78E-03 | 6.18E-03 | 6.51E-03 | 1.25E-02 | 1.33E-02 | 1.99E-02 | 1.99E-02 | 0.00E+00                         | 5.41E-03          | 6.30E-03         | 7.52E-04          | 0.00E+00                |

| State | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Texas | Fannin County     | 48147 | R                    | 3.95E-03                                                                | 3.96E-03 | 4.05E-03 | 4.54E-03 | 6.27E-03 | 5.94E-03 | 7.36E-03 | 8.91E-03 | 2.05E-08                         | 1.88E-03          | 3.84E-03         | 5.49E-04          | 0.00E+00                |
| Texas | Fayette County    | 48149 | R                    | 2.51E-03                                                                | 2.71E-03 | 3.43E-03 | 4.21E-03 | 6.49E-03 | 8.33E-03 | 1.06E-02 | 1.18E-02 | 2.30E-06                         | 2.02E-03          | 4.05E-03         | 4.28E-04          | 0.00E+00                |
| Texas | Fisher County     | 48151 | R                    | 1.21E-03                                                                | 1.22E-03 | 1.24E-03 | 1.27E-03 | 5.15E-03 | 6.50E-03 | 9.63E-03 | 1.07E-02 | 0.00E+00                         | 1.86E-07          | 4.81E-03         | 3.43E-04          | 0.00E+00                |
| Texas | Floyd County      | 48153 | R                    | 7.58E-04                                                                | 9.06E-04 | 1.35E-03 | 1.63E-03 | 1.76E-03 | 1.90E-03 | 2.36E-03 | 2.52E-03 | 0.00E+00                         | 3.87E-07          | 1.50E-03         | 2.67E-04          | 0.00E+00                |
| Texas | Foard County      | 48155 | R                    | 3.29E-04                                                                | 3.29E-04 | 3.29E-04 | 3.29E-04 | 3.29E-04 | 3.29E-04 | 3.29E-04 | 3.29E-04 | 0.00E+00                         | 6.11E-08          | 2.43E-04         | 8.56E-05          | 0.00E+00                |
| Texas | Fort Bend County  | 48157 | U                    | 1.29E-02                                                                | 1.32E-02 | 2.14E-02 | 3.61E-02 | 4.03E-02 | 4.64E-02 | 5.05E-02 | 5.69E-02 | 3.48E-03                         | 2.10E-03          | 2.71E-02         | 7.61E-03          | 0.00E+00                |
| Texas | Franklin County   | 48159 | R                    | 8.35E-03                                                                | 8.83E-03 | 1.02E-02 | 1.26E-02 | 1.18E-02 | 1.29E-02 | 1.31E-02 | 1.32E-02 | 3.86E-10                         | 3.50E-03          | 7.37E-03         | 8.98E-04          | 0.00E+00                |
| Texas | Freestone County  | 48161 | R                    | 3.94E-03                                                                | 4.17E-03 | 5.57E-03 | 1.92E-02 | 2.23E-02 | 3.95E-02 | 6.28E-02 | 6.96E-02 | 5.68E-09                         | 1.84E-02          | 3.53E-03         | 3.59E-04          | 0.00E+00                |
| Texas | Frio County       | 48163 | U                    | 1.09E-03                                                                | 1.12E-03 | 1.19E-03 | 1.32E-03 | 1.27E-03 | 1.34E-03 | 1.35E-03 | 1.36E-03 | 6.56E-12                         | 1.79E-04          | 8.85E-04         | 2.06E-04          | 0.00E+00                |
| Texas | Gaines County     | 48165 | R                    | 7.55E-04                                                                | 7.81E-04 | 8.57E-04 | 9.85E-04 | 3.05E-03 | 3.63E-03 | 5.22E-03 | 5.75E-03 | 0.00E+00                         | 1.02E-06          | 2.83E-03         | 2.22E-04          | 0.00E+00                |
| Texas | Galveston County  | 48167 | U                    | 1.50E-02                                                                | 2.28E-02 | 4.77E-02 | 6.02E-02 | 9.63E-02 | 8.68E-02 | 1.60E-01 | 2.23E-01 | 5.54E-02                         | 2.33E-03          | 3.16E-02         | 7.03E-03          | 0.00E+00                |
| Texas | Garza County      | 48169 | U                    | 2.81E-04                                                                | 2.81E-04 | 2.81E-04 | 2.81E-04 | 2.81E-04 | 2.81E-04 | 2.81E-04 | 2.81E-04 | 0.00E+00                         | 8.05E-08          | 2.05E-04         | 7.62E-05          | 0.00E+00                |
| Texas | Gillespie County  | 48171 | R                    | 1.99E-03                                                                | 2.54E-03 | 4.19E-03 | 5.69E-03 | 5.22E-03 | 6.31E-03 | 6.40E-03 | 6.43E-03 | 0.00E+00                         | 1.43E-05          | 4.16E-03         | 1.05E-03          | 0.00E+00                |
| Texas | Glasscock County  | 48173 | R                    | 2.52E-04                                                                | 2.52E-04 | 2.52E-04 | 2.52E-04 | 2.52E-04 | 2.52E-04 | 2.52E-04 | 2.52E-04 | 1.84E-06                         | 3.23E-08          | 1.83E-04         | 6.80E-05          | 0.00E+00                |
| Texas | Goliad County     | 48175 | R                    | 5.62E-03                                                                | 5.63E-03 | 5.68E-03 | 5.75E-03 | 5.77E-03 | 5.83E-03 | 5.87E-03 | 5.89E-03 | 1.22E-04                         | 3.47E-03          | 1.90E-03         | 2.74E-04          | 0.00E+00                |
| Texas | Gonzales County   | 48177 | R                    | 2.43E-03                                                                | 2.44E-03 | 2.98E-03 | 9.35E-03 | 1.26E-02 | 1.43E-02 | 2.79E-02 | 3.47E-02 | 8.99E-12                         | 5.93E-03          | 6.29E-03         | 4.20E-04          | 0.00E+00                |
| Texas | Gray County       | 48179 | U                    | 1.20E-03                                                                | 1.80E-03 | 3.19E-03 | 7.75E-03 | 9.82E-03 | 1.22E-02 | 1.46E-02 | 1.52E-02 | 1.46E-04                         | 5.79E-05          | 4.92E-03         | 4.71E-03          | 0.00E+00                |
| Texas | Grayson County    | 48181 | U                    | 8.25E-03                                                                | 8.84E-03 | 1.52E-02 | 2.53E-02 | 2.31E-02 | 3.93E-02 | 5.40E-02 | 5.52E-02 | 4.97E-08                         | 1.41E-03          | 1.81E-02         | 3.58E-03          | 0.00E+00                |
| Texas | Gregg County      | 48183 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.55E-02 | 3.50E-02 | 4.40E-02 | 5.52E-02 | 6.23E-02 | 6.59E-02 | 2.48E-03                         | 1.94E-03          | 3.13E-02         | 8.26E-03          | 0.00E+00                |
| Texas | Grimes County     | 48185 | R                    | 5.26E-03                                                                | 5.70E-03 | 7.03E-03 | 9.23E-03 | 8.13E-03 | 9.33E-03 | 9.38E-03 | 9.40E-03 | 1.40E-04                         | 2.47E-03          | 4.70E-03         | 8.15E-04          | 0.00E+00                |
| Texas | Guadalupe County  | 48187 | U                    | 6.83E-03                                                                | 7.03E-03 | 8.30E-03 | 2.10E-02 | 1.91E-02 | 2.68E-02 | 3.49E-02 | 3.60E-02 | 4.89E-10                         | 6.47E-04          | 1.50E-02         | 3.46E-03          | 0.00E+00                |
| Texas | Hale County       | 48189 | U                    | 1.68E-03                                                                | 1.75E-03 | 2.09E-03 | 9.85E-03 | 1.01E-02 | 1.62E-02 | 1.69E-02 | 1.78E-02 | 0.00E+00                         | 4.66E-06          | 6.36E-03         | 3.75E-03          | 0.00E+00                |
| Texas | Hall County       | 48191 | R                    | 4.89E-04                                                                | 4.95E-04 | 5.11E-04 | 6.15E-04 | 7.46E-04 | 7.37E-04 | 7.84E-04 | 8.00E-04 | 0.00E+00                         | 2.57E-07          | 6.71E-04         | 7.47E-05          | 0.00E+00                |
| Texas | Hamilton County   | 48193 | R                    | 1.05E-03                                                                | 1.07E-03 | 1.15E-03 | 1.27E-03 | 2.47E-03 | 2.75E-03 | 3.64E-03 | 3.93E-03 | 4.18E-09                         | 1.08E-04          | 2.17E-03         | 1.90E-04          | 0.00E+00                |
| Texas | Hansford County   | 48195 | U                    | 5.09E-04                                                                | 5.35E-04 | 6.12E-04 | 7.40E-04 | 8.17E-04 | 8.69E-04 | 9.46E-04 | 9.71E-04 | 1.72E-05                         | 3.18E-06          | 5.37E-04         | 2.59E-04          | 0.00E+00                |
| Texas | Hardeman County   | 48197 | U                    | 4.80E-04                                                                | 4.80E-04 | 4.82E-04 | 4.85E-04 | 4.89E-04 | 4.88E-04 | 4.90E-04 | 4.91E-04 | 0.00E+00                         | 1.39E-07          | 3.38E-04         | 1.51E-04          | 0.00E+00                |
| Texas | Hardin County     | 48199 | U                    | 1.38E-02                                                                | 1.74E-02 | 2.42E-02 | 3.36E-02 | 3.06E-02 | 3.55E-02 | 3.91E-02 | 3.98E-02 | 7.88E-03                         | 8.21E-03          | 1.26E-02         | 1.93E-03          | 0.00E+00                |
| Texas | Harris County     | 48201 | U                    | 4.97E-02                                                                | 6.23E-02 | 8.36E-02 | 1.04E-01 | 1.28E-01 | 1.40E-01 | 1.96E-01 | 2.68E-01 | 4.58E-02                         | 5.37E-03          | 6.08E-02         | 1.55E-02          | 0.00E+00                |
| Texas | Harrison County   | 48203 | R                    | 1.06E-02                                                                | 1.09E-02 | 1.16E-02 | 1.86E-02 | 2.61E-02 | 3.81E-02 | 4.61E-02 | 4.66E-02 | 2.56E-04                         | 1.05E-02          | 1.39E-02         | 1.50E-03          | 0.00E+00                |
| Texas | Hartley County    | 48205 | R                    | 3.46E-04                                                                | 4.30E-04 | 6.84E-04 | 1.11E-03 | 1.62E-03 | 1.53E-03 | 1.79E-03 | 1.87E-03 | 0.00E+00                         | 1.67E-04          | 5.63E-04         | 8.87E-04          | 0.00E+00                |
| Texas | Haskell County    | 48207 | R                    | 5.51E-04                                                                | 5.84E-04 | 6.83E-04 | 8.49E-04 | 6.61E-04 | 8.85E-04 | 9.07E-04 | 9.14E-04 | 0.00E+00                         | 2.06E-06          | 5.29E-04         | 1.30E-04          | 0.00E+00                |
| Texas | Hays County       | 48209 | U                    | 1.20E-02                                                                | 1.31E-02 | 1.51E-02 | 2.04E-02 | 2.34E-02 | 2.81E-02 | 4.15E-02 | 4.64E-02 | 4.02E-11                         | 9.81E-04          | 1.80E-02         | 4.37E-03          | 0.00E+00                |
| Texas | Hemphill County   | 48211 | R                    | 9.36E-04                                                                | 1.13E-03 | 1.72E-03 | 2.69E-03 | 3.58E-03 | 3.67E-03 | 4.26E-03 | 4.45E-03 | 2.01E-07                         | 1.38E-07          | 3.45E-03         | 1.23E-04          | 0.00E+00                |
| Texas | Henderson County  | 48213 | U                    | 7.30E-03                                                                | 7.69E-03 | 9.03E-03 | 1.27E-02 | 1.78E-02 | 1.70E-02 | 3.53E-02 | 4.69E-02 | 2.43E-07                         | 3.05E-03          | 1.24E-02         | 2.34E-03          | 0.00E+00                |
| Texas | Hidalgo County    | 48215 | U                    | 1.32E-02                                                                | 1.54E-02 | 2.73E-02 | 4.02E-02 | 4.20E-02 | 5.25E-02 | 6.65E-02 | 9.18E-02 | 0.00E+00                         | 7.82E-06          | 3.47E-02         | 7.35E-03          | 0.00E+00                |
| Texas | Hill County       | 48217 | R                    | 3.01E-03                                                                | 3.06E-03 | 3.23E-03 | 3.86E-03 | 7.80E-03 | 1.18E-02 | 1.82E-02 | 1.99E-02 | 6.75E-07                         | 3.84E-04          | 6.65E-03         | 7.67E-04          | 0.00E+00                |
| Texas | Hockley County    | 48219 | U                    | 1.60E-03                                                                | 1.86E-03 | 2.39E-03 | 4.13E-03 | 5.54E-03 | 7.38E-03 | 7.88E-03 | 7.95E-03 | 0.00E+00                         | 1.24E-06          | 3.99E-03         | 1.55E-03          | 0.00E+00                |
| Texas | Hood County       | 48221 | U                    | 9.09E-03                                                                | 1.01E-02 | 1.33E-02 | 1.70E-02 | 1.49E-02 | 1.71E-02 | 1.92E-02 | 1.99E-02 | 6.25E-07                         | 1.06E-04          | 1.30E-02         | 1.84E-03          | 0.00E+00                |
| Texas | Hopkins County    | 48223 | R                    | 6.01E-03                                                                | 6.04E-03 | 9.34E-03 | 2.08E-02 | 2.54E-02 | 3.40E-02 | 3.90E-02 | 4.45E-02 | 7.65E-07                         | 1.21E-02          | 1.26E-02         | 7.57E-04          | 0.00E+00                |
| Texas | Houston County    | 48225 | R                    | 3.47E-03                                                                | 3.71E-03 | 4.18E-03 | 4.46E-03 | 1.23E-02 | 1.65E-02 | 2.97E-02 | 3.20E-02 | 5.37E-07                         | 7.50E-03          | 4.50E-03         | 2.62E-04          | 0.00E+00                |
| Texas | Howard County     | 48227 | U                    | 1.88E-03                                                                | 2.31E-03 | 2.81E-03 | 8.97E-03 | 9.04E-03 | 1.37E-02 | 1.60E-02 | 1.62E-02 | 1.55E-05                         | 4.42E-06          | 6.54E-03         | 2.48E-03          | 0.00E+00                |
| Texas | Hudspeth County   | 48229 | R                    | 1.10E-04                                                                | 1.10E-04 | 1.11E-04 | 1.12E-04 | 1.11E-04 | 1.13E-04 | 1.14E-04 | 1.14E-04 | 0.00E+00                         | 8.97E-06          | 9.09E-05         | 1.13E-05          | 0.00E+00                |
| Texas | Hunt County       | 48231 | U                    | 6.22E-03                                                                | 6.34E-03 | 7.04E-03 | 1.31E-02 | 1.59E-02 | 2.55E-02 | 2.98E-02 | 3.03E-02 | 1.45E-07                         | 3.56E-03          | 1.04E-02         | 1.95E-03          | 0.00E+00                |
| Texas | Hutchinson County | 48233 | U                    | 3.61E-03                                                                | 5.00E-03 | 7.83E-03 | 1.07E-02 | 1.57E-02 | 2.32E-02 | 3.21E-02 | 3.63E-02 | 5.51E-03                         | 3.14E-05          | 7.72E-03         | 2.43E-03          | 0.00E+00                |
| Texas | Irion County      | 48235 | R                    | 3.36E-04                                                                | 3.36E-04 | 3.36E-04 | 3.36E-04 | 3.36E-04 | 3.36E-04 | 3.36E-04 | 3.36E-04 | 0.00E+00                         | 8.35E-07          | 2.58E-04         | 7.74E-05          | 0.00E+00                |
| Texas | Jack County       | 48237 | R                    | 5.84E-04                                                                | 6.06E-04 | 6.72E-04 | 8.56E-04 | 2.11E-03 | 1.65E-03 | 2.82E-03 | 3.21E-03 | 1.91E-08                         | 1.07E-04          | 1.80E-03         | 2.00E-04          | 0.00E+00                |
| Texas | Jackson County    | 48239 | R                    | 4.25E-03                                                                | 4.71E-03 | 6.10E-03 | 8.42E-03 | 7.63E-03 | 9.66E-03 | 1.04E-02 | 1.07E-02 | 3.11E-04                         | 4.26E-03          | 2.31E-03         | 7.51E-04          | 0.00E+00                |
| Texas | Jasper County     | 48241 | R                    | 1.01E-02                                                                | 1.25E-02 | 1.86E-02 | 3.92E-02 | 3.72E-02 | 4.81E-02 | 6.93E-02 | 8.57E-02 | 1.75E-02                         | 1.20E-02          | 6.83E-03         | 8.38E-04          | 0.00E+00                |
| Texas | Jeff Davis County | 48243 | R                    | 7.11E-04                                                                | 7.11E-04 | 7.11E-04 | 7.11E-04 | 7.11E-04 | 7.11E-04 | 7.11E-04 | 7.11E-04 | 0.00E+00                         | 3.51E-04          | 2.93E-04         | 6.70E-05          | 0.00E+00                |
| Texas | Jefferson County  | 48245 | U                    | 1.86E-02                                                                | 4.23E-02 | 8.00E-02 | 9.96E-02 | 1.39E-01 | 1.37E-01 | 1.79E-01 | 2.51E-01 | 8.81E-02                         | 1.49E-03          | 4.09E-02         | 8.84E-03          | 0.00E+00                |
| Texas | Jim Hogg County   | 48247 | R                    | 3.74E-04                                                                | 4.09E-04 | 5.15E-04 | 6.92E-04 | 6.33E-04 | 7.11E-04 | 7.22E-04 | 7.26E-04 | 8.65E-11                         | 5.91E-07          | 4.78E-04         | 1.54E-04          | 0.00E+00                |
| Texas | Jim Wells County  | 48249 | U                    | 3.63E-03                                                                | 4.61E-03 | 6.52E-03 | 1.88E-02 | 1.65E-02 | 2.54E-02 | 2.75E-02 | 2.87E-02 | 1.13E-07                         | 3.39E-05          | 1.13E-02         | 5.17E-03          | 0.00E+00                |

| State | County             | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|--------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                    |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                    |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Texas | Johnson County     | 48251 | U                    | 7.37E-03                                                                | 8.32E-03 | 1.35E-02 | 2.07E-02 | 2.38E-02 | 3.36E-02 | 4.46E-02 | 4.88E-02 | 1.50E-05                         | 3.64E-04          | 1.95E-02         | 3.93E-03          | 0.00E+00                |
| Texas | Jones County       | 48253 | R                    | 2.54E-03                                                                | 2.74E-03 | 3.32E-03 | 3.52E-03 | 3.75E-03 | 4.12E-03 | 7.44E-03 | 8.54E-03 | 0.00E+00                         | 7.34E-07          | 3.04E-03         | 7.08E-04          | 0.00E+00                |
| Texas | Karnes County      | 48255 | U                    | 1.26E-03                                                                | 1.28E-03 | 1.34E-03 | 1.86E-03 | 2.19E-03 | 2.47E-03 | 2.67E-03 | 2.74E-03 | 2.42E-06                         | 8.71E-05          | 1.78E-03         | 3.19E-04          | 0.00E+00                |
| Texas | Kaufman County     | 48257 | U                    | 9.91E-03                                                                | 1.04E-02 | 1.28E-02 | 2.45E-02 | 1.95E-02 | 3.04E-02 | 3.35E-02 | 3.40E-02 | 4.99E-07                         | 2.18E-03          | 1.42E-02         | 3.13E-03          | 0.00E+00                |
| Texas | Kendall County     | 48259 | R                    | 4.30E-03                                                                | 5.50E-03 | 9.13E-03 | 1.21E-02 | 1.29E-02 | 1.56E-02 | 2.02E-02 | 2.18E-02 | 2.81E-10                         | 1.98E-04          | 1.05E-02         | 2.17E-03          | 0.00E+00                |
| Texas | Kenedy County      | 48261 | R                    | 9.36E-04                                                                | 9.36E-04 | 9.36E-04 | 9.36E-04 | 9.36E-04 | 9.36E-04 | 9.36E-04 | 9.36E-04 | 9.60E-10                         | 7.73E-06          | 2.49E-04         | 6.80E-04          | 0.00E+00                |
| Texas | Kent County        | 48263 | R                    | 1.27E-04                                                                | 1.27E-04 | 1.27E-04 | 1.27E-04 | 1.27E-04 | 1.27E-04 | 1.27E-04 | 1.27E-04 | 0.00E+00                         | 1.72E-08          | 1.05E-04         | 2.21E-05          | 0.00E+00                |
| Texas | Kerr County        | 48265 | R                    | 5.29E-03                                                                | 5.52E-03 | 8.63E-03 | 1.63E-02 | 1.68E-02 | 2.60E-02 | 2.72E-02 | 2.78E-02 | 1.16E-11                         | 3.61E-04          | 1.05E-02         | 5.90E-03          | 0.00E+00                |
| Texas | Kimble County      | 48267 | U                    | 3.13E-04                                                                | 3.13E-04 | 3.14E-04 | 3.16E-04 | 3.14E-04 | 3.17E-04 | 3.18E-04 | 3.18E-04 | 0.00E+00                         | 9.71E-07          | 2.58E-04         | 5.52E-05          | 0.00E+00                |
| Texas | King County        | 48269 | R                    | 8.00E-05                                                                | 8.00E-05 | 8.00E-05 | 8.00E-05 | 8.00E-05 | 8.00E-05 | 8.00E-05 | 8.00E-05 | 0.00E+00                         | 1.17E-08          | 6.92E-05         | 1.08E-05          | 0.00E+00                |
| Texas | Kinney County      | 48271 | R                    | 3.08E-04                                                                | 3.08E-04 | 3.08E-04 | 3.08E-04 | 3.08E-04 | 3.08E-04 | 3.08E-04 | 3.08E-04 | 0.00E+00                         | 1.37E-05          | 2.70E-04         | 2.42E-05          | 0.00E+00                |
| Texas | Kleberg County     | 48273 | U                    | 5.27E-03                                                                | 7.62E-03 | 1.47E-02 | 1.69E-02 | 1.52E-02 | 1.70E-02 | 2.02E-02 | 2.13E-02 | 2.16E-07                         | 3.85E-04          | 7.38E-03         | 7.46E-03          | 0.00E+00                |
| Texas | Knox County        | 48275 | R                    | 6.18E-04                                                                | 6.48E-04 | 7.40E-04 | 8.93E-04 | 9.09E-04 | 1.05E-03 | 1.14E-03 | 1.17E-03 | 0.00E+00                         | 8.13E-07          | 7.67E-04         | 1.41E-04          | 0.00E+00                |
| Texas | Lamar County       | 48277 | U                    | 9.93E-03                                                                | 1.06E-02 | 1.87E-02 | 4.17E-02 | 3.67E-02 | 4.96E-02 | 6.66E-02 | 6.70E-02 | 0.00E+00                         | 1.66E-02          | 1.61E-02         | 4.07E-03          | 0.00E+00                |
| Texas | Lamb County        | 48279 | R                    | 8.60E-04                                                                | 8.69E-04 | 8.91E-04 | 1.35E-03 | 3.44E-03 | 5.31E-03 | 6.49E-03 | 6.49E-03 | 0.00E+00                         | 3.71E-05          | 3.12E-03         | 2.91E-04          | 0.00E+00                |
| Texas | Lampasas County    | 48281 | R                    | 1.14E-03                                                                | 1.15E-03 | 1.20E-03 | 1.74E-03 | 2.91E-03 | 2.66E-03 | 3.39E-03 | 3.63E-03 | 0.00E+00                         | 1.74E-05          | 2.42E-03         | 4.72E-04          | 0.00E+00                |
| Texas | La Salle County    | 48283 | U                    | 1.34E-04                                                                | 1.36E-04 | 1.43E-04 | 1.54E-04 | 1.69E-04 | 1.65E-04 | 1.71E-04 | 1.74E-04 | 7.73E-13                         | 1.38E-05          | 1.17E-04         | 3.78E-05          | 0.00E+00                |
| Texas | Lavaca County      | 48285 | R                    | 2.47E-03                                                                | 2.64E-03 | 3.37E-03 | 5.63E-03 | 6.47E-03 | 6.97E-03 | 1.15E-02 | 1.38E-02 | 2.55E-05                         | 3.34E-03          | 2.78E-03         | 3.24E-04          | 0.00E+00                |
| Texas | Lee County         | 48287 | R                    | 3.84E-03                                                                | 3.95E-03 | 4.28E-03 | 7.03E-03 | 7.33E-03 | 9.63E-03 | 9.72E-03 | 9.75E-03 | 0.00E+00                         | 2.59E-03          | 4.17E-03         | 5.74E-04          | 0.00E+00                |
| Texas | Leon County        | 48289 | R                    | 3.17E-03                                                                | 3.25E-03 | 3.49E-03 | 3.90E-03 | 3.92E-03 | 4.22E-03 | 4.41E-03 | 4.47E-03 | 0.00E+00                         | 2.14E-03          | 1.61E-03         | 1.65E-04          | 0.00E+00                |
| Texas | Liberty County     | 48291 | U                    | 6.43E-03                                                                | 6.92E-03 | 8.10E-03 | 1.13E-02 | 1.35E-02 | 1.27E-02 | 2.03E-02 | 2.75E-02 | 2.72E-03                         | 4.16E-03          | 5.35E-03         | 1.23E-03          | 0.00E+00                |
| Texas | Limestone County   | 48293 | R                    | 2.55E-03                                                                | 2.76E-03 | 3.37E-03 | 4.33E-03 | 5.62E-03 | 8.75E-03 | 1.21E-02 | 1.32E-02 | 3.99E-08                         | 1.60E-03          | 3.64E-03         | 3.80E-04          | 0.00E+00                |
| Texas | Lipscomb County    | 48295 | R                    | 3.46E-04                                                                | 3.49E-04 | 3.56E-04 | 3.68E-04 | 5.41E-04 | 5.20E-04 | 6.12E-04 | 6.42E-04 | 0.00E+00                         | 5.60E-06          | 3.47E-04         | 1.88E-04          | 0.00E+00                |
| Texas | Live Oak County    | 48297 | R                    | 1.13E-03                                                                | 1.17E-03 | 1.29E-03 | 4.26E-03 | 4.28E-03 | 7.72E-03 | 8.73E-03 | 9.07E-03 | 6.30E-07                         | 6.45E-04          | 3.05E-03         | 5.88E-04          | 0.00E+00                |
| Texas | Llano County       | 48299 | R                    | 1.13E-03                                                                | 1.20E-03 | 1.48E-03 | 2.15E-03 | 3.05E-03 | 3.76E-03 | 4.29E-03 | 4.33E-03 | 1.20E-13                         | 1.91E-06          | 2.46E-03         | 5.95E-04          | 0.00E+00                |
| Texas | Loving County      | 48301 | R                    | 2.23E-04                                                                | 2.23E-04 | 2.23E-04 | 2.23E-04 | 2.23E-04 | 2.23E-04 | 2.23E-04 | 2.23E-04 | 4.67E-06                         | 1.15E-07          | 1.83E-04         | 3.59E-05          | 0.00E+00                |
| Texas | Lubbock County     | 48303 | U                    | 1.06E-02                                                                | 1.59E-02 | 2.60E-02 | 3.68E-02 | 3.55E-02 | 4.19E-02 | 5.01E-02 | 5.51E-02 | 0.00E+00                         | 5.15E-06          | 2.90E-02         | 6.55E-03          | 0.00E+00                |
| Texas | Lynn County        | 48305 | R                    | 7.16E-04                                                                | 7.24E-04 | 7.48E-04 | 7.89E-04 | 8.51E-04 | 1.14E-03 | 1.34E-03 | 1.41E-03 | 0.00E+00                         | 2.16E-07          | 6.74E-04         | 1.78E-04          | 0.00E+00                |
| Texas | McCulloch County   | 48307 | U                    | 1.23E-03                                                                | 1.31E-03 | 1.55E-03 | 3.87E-03 | 5.33E-03 | 6.09E-03 | 6.14E-03 | 6.15E-03 | 0.00E+00                         | 1.50E-05          | 3.33E-03         | 1.99E-03          | 0.00E+00                |
| Texas | McLennan County    | 48309 | U                    | 1.14E-02                                                                | 1.32E-02 | 1.99E-02 | 3.50E-02 | 3.89E-02 | 4.99E-02 | 6.02E-02 | 7.52E-02 | 2.50E-09                         | 2.94E-04          | 2.95E-02         | 9.05E-03          | 0.00E+00                |
| Texas | McMullen County    | 48311 | R                    | 2.15E-04                                                                | 2.15E-04 | 2.15E-04 | 2.15E-04 | 2.15E-04 | 2.15E-04 | 2.15E-04 | 2.15E-04 | 6.15E-09                         | 1.87E-05          | 1.28E-04         | 6.81E-05          | 0.00E+00                |
| Texas | Madison County     | 48313 | R                    | 5.06E-03                                                                | 5.36E-03 | 6.25E-03 | 1.14E-02 | 1.12E-02 | 1.61E-02 | 1.62E-02 | 1.62E-02 | 0.00E+00                         | 4.56E-03          | 6.19E-03         | 4.74E-04          | 0.00E+00                |
| Texas | Marion County      | 48315 | R                    | 6.23E-03                                                                | 6.30E-03 | 6.51E-03 | 1.01E-02 | 1.15E-02 | 1.52E-02 | 1.83E-02 | 1.94E-02 | 7.92E-05                         | 5.66E-03          | 4.93E-03         | 8.00E-04          | 0.00E+00                |
| Texas | Martin County      | 48317 | R                    | 7.86E-04                                                                | 8.03E-04 | 8.52E-04 | 9.35E-04 | 1.02E-03 | 1.02E-03 | 1.07E-03 | 1.08E-03 | 7.86E-06                         | 1.88E-07          | 7.54E-04         | 2.56E-04          | 0.00E+00                |
| Texas | Mason County       | 48319 | R                    | 8.12E-04                                                                | 8.13E-04 | 8.13E-04 | 8.14E-04 | 8.13E-04 | 8.15E-04 | 8.16E-04 | 8.16E-04 | 0.00E+00                         | 6.04E-06          | 7.26E-04         | 8.11E-05          | 0.00E+00                |
| Texas | Matagorda County   | 48321 | U                    | 7.67E-04                                                                | 1.53E-03 | 3.92E-03 | 1.10E-02 | 1.79E-02 | 2.99E-02 | 3.03E-02 | 3.06E-02 | 1.89E-04                         | 8.78E-03          | 4.61E-03         | 4.29E-03          | 0.00E+00                |
| Texas | Maverick County    | 48323 | U                    | 2.27E-03                                                                | 2.75E-03 | 6.15E-03 | 1.46E-02 | 1.32E-02 | 1.71E-02 | 2.74E-02 | 3.23E-02 | 0.00E+00                         | 4.24E-04          | 1.02E-02         | 2.59E-03          | 0.00E+00                |
| Texas | Medina County      | 48325 | R                    | 2.10E-03                                                                | 2.58E-03 | 4.08E-03 | 4.96E-03 | 6.82E-03 | 6.78E-03 | 9.01E-03 | 9.79E-03 | 4.04E-10                         | 1.20E-04          | 5.71E-03         | 9.85E-04          | 0.00E+00                |
| Texas | Menard County      | 48327 | R                    | 4.67E-04                                                                | 5.24E-04 | 6.96E-04 | 9.81E-04 | 1.31E-03 | 1.27E-03 | 1.44E-03 | 1.50E-03 | 0.00E+00                         | 1.23E-05          | 1.15E-03         | 1.43E-04          | 0.00E+00                |
| Texas | Midland County     | 48329 | U                    | 2.05E-02                                                                | 3.23E-02 | 4.32E-02 | 4.90E-02 | 4.69E-02 | 5.39E-02 | 6.34E-02 | 6.79E-02 | 1.01E-03                         | 7.19E-06          | 3.18E-02         | 1.41E-02          | 0.00E+00                |
| Texas | Milam County       | 48331 | R                    | 2.70E-03                                                                | 2.81E-03 | 3.14E-03 | 4.30E-03 | 8.77E-03 | 7.96E-03 | 1.67E-02 | 1.69E-02 | 0.00E+00                         | 3.42E-03          | 4.81E-03         | 5.46E-04          | 0.00E+00                |
| Texas | Mills County       | 48333 | R                    | 6.92E-04                                                                | 7.05E-04 | 7.44E-04 | 8.09E-04 | 8.26E-04 | 8.61E-04 | 8.92E-04 | 9.03E-04 | 0.00E+00                         | 3.34E-05          | 6.77E-04         | 1.16E-04          | 0.00E+00                |
| Texas | Mitchell County    | 48335 | U                    | 6.44E-04                                                                | 6.88E-04 | 8.20E-04 | 1.04E-03 | 1.44E-03 | 1.35E-03 | 1.53E-03 | 1.59E-03 | 2.85E-07                         | 3.89E-07          | 1.07E-03         | 3.78E-04          | 0.00E+00                |
| Texas | Montague County    | 48337 | R                    | 1.43E-03                                                                | 1.44E-03 | 1.47E-03 | 1.81E-03 | 4.36E-03 | 5.91E-03 | 7.37E-03 | 7.46E-03 | 3.44E-08                         | 9.60E-04          | 3.08E-03         | 3.26E-04          | 0.00E+00                |
| Texas | Montgomery County  | 48339 | U                    | 1.24E-02                                                                | 1.74E-02 | 2.35E-02 | 3.04E-02 | 3.16E-02 | 4.04E-02 | 4.76E-02 | 5.37E-02 | 3.62E-03                         | 3.55E-03          | 1.91E-02         | 5.34E-03          | 0.00E+00                |
| Texas | Moore County       | 48341 | U                    | 1.01E-03                                                                | 1.11E-03 | 1.40E-03 | 4.42E-03 | 6.42E-03 | 8.34E-03 | 1.03E-02 | 1.09E-02 | 6.51E-10                         | 3.22E-05          | 3.86E-03         | 2.53E-03          | 0.00E+00                |
| Texas | Morris County      | 48343 | R                    | 6.56E-03                                                                | 6.87E-03 | 7.80E-03 | 9.35E-03 | 1.31E-02 | 2.09E-02 | 2.78E-02 | 3.01E-02 | 7.36E-06                         | 4.72E-03          | 7.50E-03         | 8.69E-04          | 0.00E+00                |
| Texas | Motley County      | 48345 | R                    | 1.86E-04                                                                | 1.87E-04 | 1.88E-04 | 1.92E-04 | 1.96E-04 | 1.95E-04 | 1.96E-04 | 1.97E-04 | 0.00E+00                         | 2.29E-08          | 1.70E-04         | 2.58E-05          | 0.00E+00                |
| Texas | Nacogdoches County | 48347 | U                    | 7.91E-03                                                                | 7.93E-03 | 8.37E-03 | 2.75E-02 | 2.61E-02 | 3.13E-02 | 4.37E-02 | 5.75E-02 | 3.57E-06                         | 8.87E-03          | 1.26E-02         | 4.58E-03          | 0.00E+00                |
| Texas | Navarro County     | 48349 | U                    | 3.33E-03                                                                | 3.45E-03 | 3.77E-03 | 5.46E-03 | 1.07E-02 | 1.38E-02 | 2.21E-02 | 2.31E-02 | 8.78E-08                         | 2.12E-03          | 6.60E-03         | 1.98E-03          | 0.00E+00                |
| Texas | Newton County      | 48351 | R                    | 6.62E-03                                                                | 6.71E-03 | 6.99E-03 | 7.85E-03 | 1.52E-02 | 1.67E-02 | 3.13E-02 | 3.62E-02 | 8.19E-03                         | 4.31E-03          | 2.41E-03         | 3.15E-04          | 0.00E+00                |
| Texas | Nolan County       | 48353 | U                    | 3.33E-03                                                                | 5.05E-03 | 1.02E-02 | 1.04E-02 | 1.08E-02 | 1.48E-02 | 1.53E-02 | 1.55E-02 | 0.00E+00                         | 7.77E-07          | 5.80E-03         | 5.04E-03          | 0.00E+00                |

| State | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Texas | Nueces County        | 48355 | U                    | 1.24E-02                                                                | 1.52E-02 | 2.44E-02 | 4.86E-02 | 4.93E-02 | 5.79E-02 | 6.68E-02 | 7.26E-02 | 1.29E-05                         | 1.89E-04          | 3.86E-02         | 1.05E-02          | 0.00E+00                |
| Texas | Ochiltree County     | 48357 | U                    | 1.19E-03                                                                | 1.32E-03 | 1.71E-03 | 9.50E-03 | 1.41E-02 | 1.71E-02 | 1.71E-02 | 1.71E-02 | 1.40E-05                         | 6.80E-07          | 3.70E-03         | 1.04E-02          | 0.00E+00                |
| Texas | Oldham County        | 48359 | R                    | 1.67E-04                                                                | 1.75E-04 | 2.01E-04 | 2.43E-04 | 3.05E-04 | 2.85E-04 | 3.11E-04 | 3.19E-04 | 0.00E+00                         | 5.55E-07          | 2.41E-04         | 6.33E-05          | 0.00E+00                |
| Texas | Orange County        | 48361 | U                    | 4.01E-02                                                                | 5.08E-02 | 6.76E-02 | 1.16E-01 | 2.02E-01 | 3.08E-01 | 4.40E-01 | 6.09E-01 | 1.80E-01                         | 2.41E-03          | 1.66E-02         | 3.26E-03          | 0.00E+00                |
| Texas | Palo Pinto County    | 48363 | U                    | 1.75E-03                                                                | 1.95E-03 | 2.65E-03 | 1.11E-02 | 1.26E-02 | 1.54E-02 | 1.88E-02 | 2.05E-02 | 6.28E-08                         | 6.78E-05          | 8.58E-03         | 3.91E-03          | 0.00E+00                |
| Texas | Panola County        | 48365 | R                    | 7.34E-03                                                                | 7.36E-03 | 7.53E-03 | 8.15E-03 | 1.34E-02 | 1.64E-02 | 1.91E-02 | 1.92E-02 | 4.49E-05                         | 5.22E-03          | 7.49E-03         | 6.84E-04          | 0.00E+00                |
| Texas | Parker County        | 48367 | U                    | 6.37E-03                                                                | 6.44E-03 | 9.27E-03 | 1.66E-02 | 1.58E-02 | 2.23E-02 | 2.94E-02 | 3.70E-02 | 6.27E-07                         | 5.82E-05          | 1.37E-02         | 2.11E-03          | 0.00E+00                |
| Texas | Parmer County        | 48369 | R                    | 9.04E-04                                                                | 9.13E-04 | 9.41E-04 | 9.87E-04 | 9.90E-04 | 1.03E-03 | 1.06E-03 | 1.07E-03 | 0.00E+00                         | 2.58E-05          | 7.77E-04         | 1.88E-04          | 0.00E+00                |
| Texas | Pecos County         | 48371 | U                    | 1.15E-03                                                                | 1.98E-03 | 4.48E-03 | 5.14E-03 | 1.61E-02 | 2.52E-02 | 2.53E-02 | 2.53E-02 | 4.59E-06                         | 3.33E-05          | 1.06E-02         | 5.44E-03          | 0.00E+00                |
| Texas | Polk County          | 48373 | R                    | 8.09E-03                                                                | 9.58E-03 | 1.41E-02 | 1.41E-02 | 1.30E-02 | 1.42E-02 | 1.42E-02 | 1.43E-02 | 4.28E-04                         | 6.01E-03          | 5.53E-03         | 1.07E-03          | 0.00E+00                |
| Texas | Potter County        | 48375 | U                    | 1.41E-02                                                                | 1.69E-02 | 2.59E-02 | 3.04E-02 | 3.10E-02 | 3.60E-02 | 4.02E-02 | 4.27E-02 | 4.84E-06                         | 1.11E-05          | 2.60E-02         | 5.01E-03          | 0.00E+00                |
| Texas | Presidio County      | 48377 | U                    | 1.60E-04                                                                | 1.89E-04 | 2.78E-04 | 4.25E-04 | 4.09E-04 | 5.72E-04 | 6.60E-04 | 6.89E-04 | 0.00E+00                         | 1.56E-04          | 1.99E-04         | 5.45E-05          | 0.00E+00                |
| Texas | Rains County         | 48379 | R                    | 6.01E-03                                                                | 6.06E-03 | 6.21E-03 | 6.47E-03 | 6.56E-03 | 6.72E-03 | 6.87E-03 | 6.93E-03 | 2.52E-07                         | 2.43E-03          | 3.34E-03         | 7.88E-04          | 0.00E+00                |
| Texas | Randall County       | 48381 | U                    | 1.60E-02                                                                | 1.76E-02 | 2.74E-02 | 3.46E-02 | 3.05E-02 | 3.78E-02 | 4.01E-02 | 4.32E-02 | 5.09E-06                         | 8.04E-06          | 2.58E-02         | 4.69E-03          | 0.00E+00                |
| Texas | Reagan County        | 48383 | U                    | 1.44E-04                                                                | 1.44E-04 | 1.44E-04 | 1.44E-04 | 1.44E-04 | 1.44E-04 | 1.44E-04 | 1.44E-04 | 4.58E-08                         | 7.08E-08          | 1.04E-04         | 4.02E-05          | 0.00E+00                |
| Texas | Real County          | 48385 | R                    | 5.46E-04                                                                | 5.46E-04 | 5.46E-04 | 5.46E-04 | 5.46E-04 | 5.46E-04 | 5.46E-04 | 5.46E-04 | 0.00E+00                         | 8.66E-05          | 3.72E-04         | 8.74E-05          | 0.00E+00                |
| Texas | Red River County     | 48387 | R                    | 4.11E-03                                                                | 4.24E-03 | 4.58E-03 | 6.00E-03 | 6.25E-03 | 7.27E-03 | 8.60E-03 | 9.25E-03 | 0.00E+00                         | 2.64E-03          | 3.17E-03         | 4.49E-04          | 0.00E+00                |
| Texas | Reeves County        | 48389 | U                    | 3.06E-04                                                                | 4.03E-04 | 6.93E-04 | 7.88E-03 | 7.72E-03 | 1.15E-02 | 1.17E-02 | 1.18E-02 | 1.24E-05                         | 3.05E-07          | 5.34E-03         | 2.36E-03          | 0.00E+00                |
| Texas | Refugio County       | 48391 | R                    | 6.47E-03                                                                | 6.50E-03 | 6.61E-03 | 6.79E-03 | 6.70E-03 | 7.18E-03 | 7.41E-03 | 7.49E-03 | 5.68E-04                         | 3.61E-03          | 1.79E-03         | 7.32E-04          | 0.00E+00                |
| Texas | Roberts County       | 48393 | R                    | 2.86E-04                                                                | 2.86E-04 | 2.86E-04 | 2.86E-04 | 2.86E-04 | 2.86E-04 | 2.86E-04 | 2.86E-04 | 2.01E-06                         | 6.84E-07          | 1.70E-04         | 1.14E-04          | 0.00E+00                |
| Texas | Robertson County     | 48395 | R                    | 5.41E-03                                                                | 5.47E-03 | 5.62E-03 | 8.28E-03 | 8.03E-03 | 9.01E-03 | 9.07E-03 | 9.09E-03 | 0.00E+00                         | 3.61E-03          | 3.68E-03         | 7.39E-04          | 0.00E+00                |
| Texas | Rockwall County      | 48397 | U                    | 2.14E-02                                                                | 2.20E-02 | 2.43E-02 | 3.03E-02 | 2.94E-02 | 3.71E-02 | 3.91E-02 | 3.94E-02 | 4.13E-07                         | 3.43E-04          | 2.37E-02         | 5.37E-03          | 0.00E+00                |
| Texas | Runnels County       | 48399 | U                    | 1.02E-03                                                                | 1.10E-03 | 1.31E-03 | 6.18E-03 | 4.71E-03 | 6.20E-03 | 6.33E-03 | 6.38E-03 | 0.00E+00                         | 3.17E-06          | 2.99E-02         | 1.72E-03          | 0.00E+00                |
| Texas | Rusk County          | 48401 | R                    | 8.16E-03                                                                | 8.66E-03 | 1.01E-02 | 1.26E-02 | 1.86E-02 | 2.09E-02 | 3.17E-02 | 3.46E-02 | 1.46E-04                         | 4.38E-03          | 1.30E-02         | 1.12E-03          | 0.00E+00                |
| Texas | Sabine County        | 48403 | R                    | 5.44E-03                                                                | 5.50E-03 | 5.66E-03 | 6.33E-03 | 6.57E-03 | 7.04E-03 | 7.27E-03 | 7.35E-03 | 4.92E-06                         | 3.72E-03          | 2.06E-03         | 7.85E-04          | 0.00E+00                |
| Texas | San Augustine County | 48405 | R                    | 5.84E-03                                                                | 5.92E-03 | 6.18E-03 | 6.61E-03 | 1.76E-02 | 2.25E-02 | 3.21E-02 | 3.53E-02 | 2.24E-05                         | 1.27E-02          | 4.06E-03         | 7.60E-04          | 0.00E+00                |
| Texas | San Jacinto County   | 48407 | R                    | 7.59E-03                                                                | 7.77E-03 | 8.33E-03 | 9.26E-03 | 1.02E-02 | 1.25E-02 | 1.45E-02 | 1.52E-02 | 4.59E-04                         | 3.86E-03          | 4.83E-03         | 1.03E-03          | 0.00E+00                |
| Texas | San Patricio County  | 48409 | U                    | 8.67E-03                                                                | 9.76E-03 | 1.27E-02 | 2.06E-02 | 1.90E-02 | 2.18E-02 | 3.31E-02 | 3.40E-02 | 3.64E-06                         | 1.19E-03          | 1.30E-02         | 4.81E-03          | 0.00E+00                |
| Texas | San Saba County      | 48411 | R                    | 4.31E-04                                                                | 4.46E-04 | 4.90E-04 | 5.63E-04 | 4.87E-04 | 6.37E-04 | 6.81E-04 | 6.95E-04 | 0.00E+00                         | 4.04E-05          | 3.32E-04         | 1.15E-04          | 0.00E+00                |
| Texas | Schleicher County    | 48413 | R                    | 7.11E-04                                                                | 7.96E-04 | 1.05E-03 | 1.48E-03 | 1.97E-03 | 1.91E-03 | 2.16E-03 | 2.25E-03 | 0.00E+00                         | 4.14E-07          | 1.81E-03         | 1.58E-04          | 0.00E+00                |
| Texas | Scurry County        | 48415 | U                    | 1.34E-03                                                                | 1.44E-03 | 1.77E-03 | 3.29E-03 | 4.90E-03 | 4.37E-03 | 6.67E-03 | 7.43E-03 | 1.04E-10                         | 1.00E-06          | 3.04E-03         | 1.86E-03          | 0.00E+00                |
| Texas | Shackelford County   | 48417 | R                    | 6.06E-04                                                                | 6.25E-04 | 6.79E-04 | 7.71E-04 | 6.38E-04 | 8.62E-04 | 9.17E-04 | 9.35E-04 | 0.00E+00                         | 6.59E-07          | 4.96E-04         | 1.41E-04          | 0.00E+00                |
| Texas | Shelby County        | 48419 | R                    | 5.48E-03                                                                | 5.68E-03 | 6.12E-03 | 7.44E-03 | 1.11E-02 | 1.06E-02 | 1.64E-02 | 1.90E-02 | 3.80E-06                         | 5.42E-03          | 5.08E-03         | 6.27E-04          | 0.00E+00                |
| Texas | Sherman County       | 48421 | R                    | 4.61E-04                                                                | 4.63E-04 | 4.68E-04 | 4.77E-04 | 4.84E-04 | 4.85E-04 | 4.91E-04 | 4.92E-04 | 0.00E+00                         | 2.03E-05          | 3.44E-04         | 1.20E-04          | 0.00E+00                |
| Texas | Smith County         | 48423 | U                    | 1.57E-02                                                                | 1.92E-02 | 2.23E-02 | 4.46E-02 | 3.58E-02 | 5.06E-02 | 5.84E-02 | 6.42E-02 | 1.12E-05                         | 2.65E-03          | 2.80E-02         | 5.13E-03          | 0.00E+00                |
| Texas | Somervell County     | 48425 | R                    | 1.44E-02                                                                | 1.45E-02 | 1.45E-02 | 1.46E-02 | 1.46E-02 | 1.47E-02 | 1.47E-02 | 1.47E-02 | 3.91E-07                         | 2.16E-04          | 1.32E-02         | 1.26E-03          | 0.00E+00                |
| Texas | Starr County         | 48427 | R                    | 3.10E-03                                                                | 3.18E-03 | 4.06E-03 | 7.50E-03 | 7.12E-03 | 9.11E-03 | 1.37E-02 | 1.59E-02 | 0.00E+00                         | 1.34E-06          | 6.61E-03         | 5.09E-04          | 0.00E+00                |
| Texas | Stephens County      | 48429 | U                    | 1.21E-03                                                                | 1.28E-03 | 1.48E-03 | 4.27E-03 | 5.59E-03 | 6.95E-03 | 6.97E-03 | 6.98E-03 | 0.00E+00                         | 9.29E-05          | 3.57E-03         | 1.92E-03          | 0.00E+00                |
| Texas | Sterling County      | 48431 | R                    | 1.97E-04                                                                | 1.97E-04 | 1.97E-04 | 1.97E-04 | 1.97E-04 | 1.97E-04 | 1.97E-04 | 1.97E-04 | 4.91E-11                         | 3.82E-07          | 1.67E-04         | 2.93E-05          | 0.00E+00                |
| Texas | Stonewall County     | 48433 | R                    | 4.56E-04                                                                | 4.56E-04 | 4.58E-04 | 4.60E-04 | 4.58E-04 | 4.63E-04 | 4.64E-04 | 4.65E-04 | 0.00E+00                         | 1.37E-07          | 3.91E-04         | 6.70E-05          | 0.00E+00                |
| Texas | Sutton County        | 48435 | U                    | 1.80E-04                                                                | 1.97E-04 | 2.46E-04 | 3.29E-04 | 4.52E-04 | 4.12E-04 | 4.61E-04 | 4.78E-04 | 0.00E+00                         | 3.75E-07          | 2.96E-04         | 1.56E-04          | 0.00E+00                |
| Texas | Swisher County       | 48437 | U                    | 1.01E-03                                                                | 1.05E-03 | 1.18E-03 | 3.32E-03 | 4.11E-03 | 5.40E-03 | 5.41E-03 | 5.42E-03 | 0.00E+00                         | 5.35E-06          | 2.41E-03         | 1.69E-03          | 0.00E+00                |
| Texas | Tarrant County       | 48439 | U                    | 3.66E-02                                                                | 4.23E-02 | 4.93E-02 | 5.68E-02 | 5.86E-02 | 6.69E-02 | 7.54E-02 | 8.15E-02 | 1.79E-05                         | 1.15E-04          | 4.91E-02         | 9.33E-03          | 0.00E+00                |
| Texas | Taylor County        | 48441 | U                    | 1.01E-02                                                                | 1.66E-02 | 3.11E-02 | 4.62E-02 | 3.97E-02 | 5.24E-02 | 5.85E-02 | 5.98E-02 | 0.00E+00                         | 4.81E-06          | 3.03E-02         | 9.37E-03          | 0.00E+00                |
| Texas | Terrell County       | 48443 | R                    | 1.00E-04                                                                | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 0.00E+00                         | 4.60E-08          | 8.39E-05         | 1.65E-05          | 0.00E+00                |
| Texas | Terry County         | 48445 | U                    | 6.04E-04                                                                | 6.28E-04 | 6.99E-04 | 5.51E-03 | 8.03E-03 | 1.03E-02 | 1.03E-02 | 1.04E-02 | 0.00E+00                         | 3.12E-07          | 3.59E-03         | 4.44E-03          | 0.00E+00                |
| Texas | Throckmorton County  | 48447 | R                    | 2.66E-04                                                                | 2.79E-04 | 3.18E-04 | 3.84E-04 | 3.14E-04 | 4.49E-04 | 4.89E-04 | 5.02E-04 | 0.00E+00                         | 5.93E-07          | 2.32E-04         | 8.13E-05          | 0.00E+00                |
| Texas | Titus County         | 48449 | U                    | 7.48E-03                                                                | 8.72E-03 | 1.04E-02 | 1.95E-02 | 2.26E-02 | 3.26E-02 | 4.46E-02 | 4.89E-02 | 3.80E-07                         | 4.68E-03          | 1.30E-02         | 4.96E-03          | 0.00E+00                |
| Texas | Tom Green County     | 48451 | U                    | 1.05E-02                                                                | 1.31E-02 | 2.47E-02 | 2.77E-02 | 2.68E-02 | 3.22E-02 | 3.72E-02 | 3.82E-02 | 0.00E+00                         | 2.03E-04          | 1.96E-02         | 7.04E-03          | 0.00E+00                |
| Texas | Travis County        | 48453 | U                    | 2.70E-02                                                                | 3.86E-02 | 5.47E-02 | 7.11E-02 | 7.38E-02 | 8.34E-02 | 1.07E-01 | 1.28E-01 | 1.06E-11                         | 1.20E-04          | 5.34E-02         | 2.03E-02          | 0.00E+00                |
| Texas | Trinity County       | 48455 | R                    | 4.74E-03                                                                | 5.17E-03 | 6.47E-03 | 6.51E-03 | 9.34E-03 | 1.07E-02 | 1.74E-02 | 1.97E-02 | 3.69E-06                         | 5.37E-03          | 3.65E-03         | 3.18E-04          | 0.00E+00                |
| Texas | Tyler County         | 48457 | R                    | 7.16E-03                                                                | 7.37E-03 | 8.03E-03 | 9.95E-03 | 1.63E-02 | 1.00E-02 | 3.62E-02 | 4.49E-02 | 1.76E-03                         | 1.10E-02          | 3.29E-03         | 3.28E-04          | 0.00E+00                |

| State | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|       |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|       |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Texas | Upshur County        | 48459 | R                    | 7.24E-03                                                                | 7.29E-03 | 7.92E-03 | 9.35E-03 | 1.41E-02 | 2.14E-02 | 2.82E-02 | 2.91E-02 | 1.88E-04                         | 3.55E-03          | 9.09E-03         | 1.28E-03          | 0.00E+00                |
| Texas | Upton County         | 48461 | R                    | 4.98E-04                                                                | 5.10E-04 | 5.45E-04 | 6.04E-04 | 6.42E-04 | 6.62E-04 | 6.97E-04 | 7.09E-04 | 1.84E-05                         | 2.85E-07          | 5.06E-04         | 1.18E-04          | 0.00E+00                |
| Texas | Uvalde County        | 48463 | U                    | 1.79E-03                                                                | 2.12E-03 | 3.09E-03 | 1.14E-02 | 9.40E-03 | 1.23E-02 | 1.39E-02 | 1.45E-02 | 2.72E-14                         | 5.94E-05          | 6.51E-03         | 2.83E-03          | 0.00E+00                |
| Texas | Val Verde County     | 48465 | U                    | 6.37E-04                                                                | 8.80E-04 | 2.38E-03 | 8.34E-03 | 9.99E-03 | 1.30E-02 | 1.62E-02 | 1.62E-02 | 0.00E+00                         | 9.87E-05          | 5.02E-03         | 4.87E-03          | 0.00E+00                |
| Texas | Van Zandt County     | 48467 | R                    | 5.70E-03                                                                | 5.93E-03 | 6.98E-03 | 9.26E-03 | 1.02E-02 | 1.42E-02 | 1.47E-02 | 1.48E-02 | 4.41E-07                         | 1.64E-03          | 7.45E-03         | 1.10E-03          | 0.00E+00                |
| Texas | Victoria County      | 48469 | U                    | 9.01E-03                                                                | 9.54E-03 | 1.42E-02 | 3.30E-02 | 2.93E-02 | 3.72E-02 | 4.67E-02 | 4.72E-02 | 3.09E-03                         | 6.19E-03          | 1.59E-02         | 4.12E-03          | 0.00E+00                |
| Texas | Walker County        | 48471 | U                    | 8.94E-03                                                                | 1.01E-02 | 1.13E-02 | 1.95E-02 | 2.26E-02 | 3.54E-02 | 4.50E-02 | 5.16E-02 | 2.06E-04                         | 9.03E-03          | 1.16E-02         | 1.80E-03          | 0.00E+00                |
| Texas | Waller County        | 48473 | U                    | 2.29E-03                                                                | 4.58E-03 | 7.44E-03 | 1.05E-02 | 8.93E-03 | 1.83E-02 | 2.12E-02 | 2.28E-02 | 6.84E-04                         | 1.02E-03          | 5.89E-03         | 1.34E-03          | 0.00E+00                |
| Texas | Ward County          | 48475 | U                    | 8.39E-04                                                                | 9.70E-04 | 1.36E-03 | 1.42E-03 | 1.24E-02 | 1.99E-02 | 2.02E-02 | 2.03E-02 | 7.31E-04                         | 5.67E-07          | 7.20E-03         | 4.43E-03          | 0.00E+00                |
| Texas | Washington County    | 48477 | R                    | 7.47E-03                                                                | 7.72E-03 | 1.16E-02 | 2.28E-02 | 1.88E-02 | 2.45E-02 | 2.52E-02 | 2.55E-02 | 9.54E-05                         | 6.27E-03          | 1.07E-02         | 1.77E-03          | 0.00E+00                |
| Texas | Webb County          | 48479 | U                    | 6.31E-03                                                                | 9.30E-03 | 1.62E-02 | 2.09E-02 | 2.24E-02 | 3.11E-02 | 3.42E-02 | 3.72E-02 | 0.00E+00                         | 1.65E-06          | 1.56E-02         | 6.79E-03          | 0.00E+00                |
| Texas | Wharton County       | 48481 | R                    | 6.17E-03                                                                | 6.21E-03 | 9.12E-03 | 1.81E-02 | 1.45E-02 | 1.83E-02 | 1.87E-02 | 2.28E-02 | 1.96E-04                         | 5.48E-03          | 7.34E-03         | 1.46E-03          | 0.00E+00                |
| Texas | Wheeler County       | 48483 | R                    | 7.22E-04                                                                | 7.34E-04 | 7.70E-04 | 8.30E-04 | 8.30E-04 | 8.90E-04 | 9.26E-04 | 9.38E-04 | 1.17E-06                         | 5.78E-07          | 7.04E-04         | 1.24E-04          | 0.00E+00                |
| Texas | Wichita County       | 48485 | U                    | 1.30E-02                                                                | 1.64E-02 | 2.16E-02 | 2.72E-02 | 2.56E-02 | 3.22E-02 | 3.85E-02 | 4.20E-02 | 0.00E+00                         | 6.82E-06          | 2.00E-02         | 5.60E-03          | 0.00E+00                |
| Texas | Wilbarger County     | 48487 | U                    | 7.22E-04                                                                | 7.39E-04 | 1.04E-03 | 9.04E-03 | 8.73E-03 | 1.02E-02 | 1.12E-02 | 1.17E-02 | 0.00E+00                         | 2.27E-06          | 4.71E-03         | 4.02E-03          | 0.00E+00                |
| Texas | Willacy County       | 48489 | R                    | 3.31E-03                                                                | 4.05E-03 | 5.61E-03 | 7.49E-03 | 8.36E-03 | 9.14E-03 | 9.82E-03 | 1.02E-02 | 2.85E-11                         | 4.86E-06          | 6.55E-03         | 1.80E-03          | 0.00E+00                |
| Texas | Williamson County    | 48491 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 2.40E-02 | 3.38E-02 | 4.03E-02 | 4.51E-02 | 5.00E-02 | 1.98E-14                         | 9.26E-05          | 2.34E-02         | 1.02E-02          | 0.00E+00                |
| Texas | Wilson County        | 48493 | U                    | 3.11E-03                                                                | 3.45E-03 | 4.95E-03 | 1.18E-02 | 1.24E-02 | 1.64E-02 | 1.78E-02 | 1.84E-02 | 8.06E-10                         | 2.85E-05          | 1.03E-02         | 2.00E-03          | 0.00E+00                |
| Texas | Winkler County       | 48495 | U                    | 2.69E-03                                                                | 4.60E-03 | 1.04E-02 | 1.37E-02 | 1.22E-02 | 1.40E-02 | 1.44E-02 | 1.45E-02 | 2.43E-04                         | 4.39E-07          | 6.20E-03         | 5.71E-03          | 0.00E+00                |
| Texas | Wise County          | 48497 | R                    | 4.45E-03                                                                | 5.39E-03 | 7.36E-03 | 9.36E-03 | 9.94E-03 | 1.14E-02 | 1.15E-02 | 1.15E-02 | 7.60E-07                         | 1.61E-04          | 8.53E-03         | 1.25E-03          | 0.00E+00                |
| Texas | Wood County          | 48499 | R                    | 6.70E-03                                                                | 7.13E-03 | 8.72E-03 | 1.44E-02 | 1.32E-02 | 1.90E-02 | 1.98E-02 | 2.07E-02 | 1.00E-05                         | 3.68E-03          | 8.27E-03         | 1.24E-03          | 0.00E+00                |
| Texas | Yoakum County        | 48501 | U                    | 5.20E-04                                                                | 5.76E-04 | 7.45E-04 | 1.03E-03 | 1.33E-03 | 1.31E-03 | 1.47E-03 | 1.53E-03 | 0.00E+00                         | 2.17E-06          | 9.72E-04         | 3.51E-04          | 0.00E+00                |
| Texas | Young County         | 48503 | U                    | 7.97E-04                                                                | 8.18E-04 | 9.79E-04 | 5.06E-03 | 9.44E-03 | 1.36E-02 | 1.52E-02 | 1.53E-02 | 0.00E+00                         | 4.50E-05          | 5.08E-03         | 4.32E-03          | 0.00E+00                |
| Texas | Zapata County        | 48505 | R                    | 5.36E-04                                                                | 5.52E-04 | 6.00E-04 | 6.80E-04 | 1.80E-03 | 1.60E-03 | 2.15E-03 | 2.34E-03 | 0.00E+00                         | 1.43E-07          | 1.29E-03         | 5.11E-04          | 0.00E+00                |
| Texas | Zavala County        | 48507 | U                    | 5.36E-04                                                                | 5.44E-04 | 5.69E-04 | 6.10E-04 | 9.58E-04 | 8.53E-04 | 9.98E-04 | 1.05E-03 | 0.00E+00                         | 3.27E-05          | 7.66E-04         | 1.59E-04          | 0.00E+00                |
| Utah  | Statewide            | 49000 | -                    | 1.22E-03                                                                | 5.53E-03 | 2.85E-02 | 6.48E-02 | 7.41E-02 | 1.00E-01 | 1.25E-01 | 1.36E-01 | 1.04E-05                         | 5.11E-03          | 5.65E-02         | 1.25E-02          | 0.00E+00                |
| Utah  | State Urban Counties | 49000 | U                    | 7.20E-03                                                                | 2.10E-02 | 5.12E-02 | 7.61E-02 | 8.06E-02 | 1.04E-01 | 1.28E-01 | 1.39E-01 | 1.15E-05                         | 5.31E-03          | 6.15E-02         | 1.38E-02          | 0.00E+00                |
| Utah  | State Rural Counties | 49000 | R                    | 0.00E+00                                                                | 9.85E-05 | 1.78E-03 | 7.53E-03 | 1.36E-02 | 1.36E-02 | 2.52E-02 | 4.06E-02 | 1.87E-07                         | 3.24E-03          | 9.84E-03         | 5.31E-04          | 0.00E+00                |
| Utah  | Beaver County        | 49001 | R                    | 3.30E-03                                                                | 3.54E-03 | 4.28E-03 | 5.51E-03 | 5.79E-03 | 6.74E-03 | 7.47E-03 | 7.72E-03 | 0.00E+00                         | 4.45E-03          | 1.29E-03         | 4.87E-05          | 0.00E+00                |
| Utah  | Box Elder County     | 49003 | U                    | 6.87E-03                                                                | 8.12E-03 | 9.32E-03 | 2.19E-02 | 2.58E-02 | 3.37E-02 | 4.30E-02 | 4.54E-02 | 6.93E-08                         | 7.98E-03          | 1.14E-02         | 6.35E-03          | 0.00E+00                |
| Utah  | Cache County         | 49005 | U                    | 0.00E+00                                                                | 0.00E+00 | 9.20E-03 | 2.35E-02 | 3.24E-02 | 3.55E-02 | 5.39E-02 | 6.13E-02 | 2.17E-08                         | 7.02E-03          | 2.28E-02         | 2.56E-03          | 0.00E+00                |
| Utah  | Carbon County        | 49007 | R                    | 5.94E-03                                                                | 6.32E-03 | 9.32E-03 | 2.90E-02 | 3.42E-02 | 5.42E-02 | 7.21E-02 | 7.91E-02 | 3.57E-11                         | 1.26E-04          | 3.36E-02         | 4.21E-04          | 0.00E+00                |
| Utah  | Daggett County       | 49009 | R                    | 9.72E-04                                                                | 9.72E-04 | 9.72E-04 | 9.72E-04 | 9.72E-04 | 9.72E-04 | 9.72E-04 | 9.72E-04 | 6.48E-06                         | 3.57E-04          | 4.66E-04         | 1.43E-04          | 0.00E+00                |
| Utah  | Davis County         | 49011 | U                    | 2.99E-02                                                                | 3.53E-02 | 4.51E-02 | 5.91E-02 | 6.48E-02 | 7.67E-02 | 9.72E-02 | 1.09E-01 | 1.20E-05                         | 3.03E-03          | 5.26E-02         | 9.14E-03          | 0.00E+00                |
| Utah  | Duchesne County      | 49013 | R                    | 9.28E-04                                                                | 1.86E-03 | 4.64E-03 | 1.01E-02 | 1.49E-02 | 2.40E-02 | 2.50E-02 | 2.54E-02 | 8.57E-10                         | 3.87E-03          | 1.05E-02         | 5.59E-04          | 0.00E+00                |
| Utah  | Emery County         | 49015 | R                    | 2.03E-03                                                                | 2.10E-03 | 2.30E-03 | 2.47E-03 | 4.23E-03 | 3.91E-03 | 6.39E-03 | 7.21E-03 | 0.00E+00                         | 2.66E-04          | 3.88E-03         | 8.40E-05          | 0.00E+00                |
| Utah  | Garfield County      | 49017 | R                    | 5.16E-04                                                                | 5.62E-04 | 6.99E-04 | 9.26E-04 | 8.56E-04 | 1.04E-03 | 1.11E-03 | 1.13E-03 | 0.00E+00                         | 1.59E-04          | 6.38E-04         | 5.88E-05          | 0.00E+00                |
| Utah  | Grand County         | 49019 | U                    | 1.17E-02                                                                | 1.17E-02 | 1.17E-02 | 1.17E-02 | 1.17E-02 | 1.17E-02 | 1.17E-02 | 1.17E-02 | 0.00E+00                         | 2.30E-03          | 4.74E-03         | 4.66E-03          | 0.00E+00                |
| Utah  | Iron County          | 49021 | U                    | 2.65E-03                                                                | 3.62E-03 | 6.54E-03 | 7.06E-03 | 2.30E-02 | 9.55E-03 | 4.43E-02 | 5.59E-02 | 0.00E+00                         | 1.20E-02          | 9.06E-03         | 1.95E-03          | 0.00E+00                |
| Utah  | Juab County          | 49023 | U                    | 8.86E-03                                                                | 1.12E-02 | 1.82E-02 | 2.98E-02 | 4.68E-02 | 4.15E-02 | 4.85E-02 | 5.08E-02 | 8.33E-10                         | 3.76E-02          | 6.95E-03         | 2.32E-03          | 0.00E+00                |
| Utah  | Kane County          | 49025 | U                    | 1.42E-03                                                                | 1.63E-03 | 2.25E-03 | 3.28E-03 | 4.54E-03 | 4.31E-03 | 4.93E-03 | 5.13E-03 | 0.00E+00                         | 3.83E-03          | 4.46E-04         | 2.60E-04          | 0.00E+00                |
| Utah  | Millard County       | 49027 | R                    | 5.92E-03                                                                | 5.98E-03 | 6.16E-03 | 6.46E-03 | 1.05E-02 | 1.20E-02 | 1.53E-02 | 1.64E-02 | 0.00E+00                         | 8.04E-03          | 1.98E-03         | 5.17E-04          | 0.00E+00                |
| Utah  | Morgan County        | 49029 | R                    | 9.01E-03                                                                | 9.12E-03 | 9.42E-03 | 9.92E-03 | 9.34E-03 | 1.04E-02 | 1.07E-02 | 1.08E-02 | 4.64E-07                         | 1.61E-03          | 6.80E-03         | 9.30E-04          | 0.00E+00                |
| Utah  | Piute County         | 49031 | R                    | 1.34E-03                                                                | 1.34E-03 | 1.34E-03 | 1.34E-03 | 1.34E-03 | 1.34E-03 | 1.34E-03 | 1.34E-03 | 0.00E+00                         | 5.61E-04          | 7.28E-04         | 5.43E-05          | 0.00E+00                |
| Utah  | Rich County          | 49033 | R                    | 1.93E-03                                                                | 1.95E-03 | 2.01E-03 | 2.11E-03 | 2.05E-03 | 2.21E-03 | 2.26E-03 | 2.28E-03 | 1.42E-07                         | 1.41E-03          | 4.95E-04         | 1.43E-04          | 0.00E+00                |
| Utah  | Salt Lake County     | 49035 | U                    | 5.57E-02                                                                | 6.77E-02 | 8.34E-02 | 1.01E-01 | 1.01E-01 | 1.16E-01 | 1.33E-01 | 1.47E-01 | 2.10E-05                         | 2.64E-03          | 8.13E-02         | 1.73E-02          | 0.00E+00                |
| Utah  | San Juan County      | 49037 | R                    | 4.88E-04                                                                | 6.48E-04 | 1.13E-03 | 1.40E-03 | 1.37E-03 | 1.54E-03 | 1.75E-03 | 1.83E-03 | 0.00E+00                         | 3.45E-04          | 9.09E-04         | 1.15E-04          | 0.00E+00                |
| Utah  | Sanpete County       | 49039 | R                    | 4.92E-03                                                                | 6.72E-03 | 1.21E-02 | 1.51E-02 | 1.76E-02 | 1.67E-02 | 3.88E-02 | 4.61E-02 | 0.00E+00                         | 7.66E-03          | 9.56E-03         | 3.92E-04          | 0.00E+00                |
| Utah  | Sevier County        | 49041 | R                    | 1.08E-02                                                                | 1.15E-02 | 1.38E-02 | 1.39E-02 | 2.05E-02 | 3.23E-02 | 3.24E-02 | 3.24E-02 | 0.00E+00                         | 8.88E-03          | 1.09E-02         | 6.79E-04          | 0.00E+00                |
| Utah  | Summit County        | 49043 | R                    | 2.21E-03                                                                | 2.21E-03 | 2.21E-03 | 6.37E-03 | 7.57E-03 | 1.13E-02 | 1.26E-02 | 1.31E-02 | 1.22E-06                         | 5.79E-04          | 6.18E-03         | 8.09E-04          | 0.00E+00                |
| Utah  | Tooele County        | 49045 | U                    | 7.13E-03                                                                | 1.28E-02 | 3.65E-02 | 5.50E-02 | 5.18E-02 | 6.82E-02 | 9.39E-02 | 1.09E-01 | 8.18E-07                         | 3.55E-02          | 1.14E-02         | 4.87E-03          | 0.00E+00                |
| Utah  | Uintah County        | 49047 | R                    | 8.62E-03                                                                | 9.12E-03 | 1.06E-02 | 1.09E-02 | 1.35E-02 | 2.13E-02 | 2.16E-02 | 2.16E-02 | 2.82E-08                         | 2.78E-03          | 9.77E-03         | 9.31E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Utah     | Utah County          | 49049 | U                    | 0.00E+00                                                                | 2.16E-02 | 4.79E-02 | 6.71E-02 | 8.55E-02 | 1.03E-01 | 1.48E-01 | 1.65E-01 | 3.69E-07                         | 1.08E-02          | 5.85E-02         | 1.62E-02          | 0.00E+00                |
| Utah     | Wasatch County       | 49051 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.47E-03 | 1.03E-02 | 1.04E-02 | 4.19E-07                         | 2.40E-03          | 6.71E-03         | 8.79E-04          | 0.00E+00                |
| Utah     | Washington County    | 49053 | U                    | 9.96E-03                                                                | 1.29E-02 | 1.41E-02 | 2.71E-02 | 4.55E-02 | 4.83E-02 | 6.75E-02 | 9.80E-02 | 0.00E+00                         | 4.93E-03          | 1.76E-02         | 2.29E-02          | 0.00E+00                |
| Utah     | Wayne County         | 49055 | R                    | 1.30E-03                                                                | 1.30E-03 | 1.30E-03 | 1.30E-03 | 1.30E-03 | 1.30E-03 | 1.30E-03 | 1.30E-03 | 0.00E+00                         | 4.47E-04          | 8.07E-04         | 4.10E-05          | 0.00E+00                |
| Utah     | Weber County         | 49057 | U                    | 2.88E-02                                                                | 3.75E-02 | 5.16E-02 | 6.01E-02 | 6.04E-02 | 7.08E-02 | 7.84E-02 | 9.77E-02 | 1.37E-06                         | 2.88E-03          | 5.04E-02         | 7.13E-03          | 0.00E+00                |
| Vermont  | Statewide            | 50000 | -                    | 7.95E-03                                                                | 8.72E-03 | 1.13E-02 | 1.59E-02 | 3.34E-02 | 3.20E-02 | 5.78E-02 | 8.63E-02 | 7.77E-09                         | 5.75E-03          | 1.93E-02         | 8.28E-03          | 0.00E+00                |
| Vermont  | State Rural Counties | 50000 | R                    | 7.95E-03                                                                | 8.72E-03 | 1.13E-02 | 1.59E-02 | 3.34E-02 | 3.20E-02 | 5.78E-02 | 8.63E-02 | 7.77E-09                         | 5.75E-03          | 1.93E-02         | 8.28E-03          | 0.00E+00                |
| Vermont  | Addison County       | 50001 | R                    | 6.43E-03                                                                | 9.78E-03 | 1.13E-02 | 1.40E-02 | 1.71E-02 | 1.78E-02 | 2.81E-02 | 3.00E-02 | 0.00E+00                         | 4.26E-03          | 6.03E-03         | 6.83E-03          | 0.00E+00                |
| Vermont  | Bennington County    | 50003 | R                    | 8.29E-03                                                                | 9.28E-03 | 1.04E-02 | 1.37E-02 | 2.38E-02 | 1.66E-02 | 3.37E-02 | 4.31E-02 | 1.22E-07                         | 9.28E-03          | 1.24E-02         | 2.13E-03          | 0.00E+00                |
| Vermont  | Caledonia County     | 50005 | R                    | 7.99E-03                                                                | 8.59E-03 | 9.25E-03 | 1.19E-02 | 1.39E-02 | 1.85E-02 | 1.97E-02 | 1.97E-02 | 0.00E+00                         | 6.45E-03          | 6.03E-03         | 1.43E-03          | 0.00E+00                |
| Vermont  | Chittenden County    | 50007 | R                    | 3.58E-02                                                                | 3.84E-02 | 4.77E-02 | 7.04E-02 | 7.34E-02 | 9.84E-02 | 1.39E-01 | 1.59E-01 | 0.00E+00                         | 2.68E-03          | 5.08E-02         | 1.99E-02          | 0.00E+00                |
| Vermont  | Essex County         | 50009 | R                    | 9.03E-03                                                                | 9.37E-03 | 1.04E-02 | 1.12E-02 | 1.14E-02 | 1.23E-02 | 1.39E-02 | 1.44E-02 | 0.00E+00                         | 8.91E-03          | 1.87E-03         | 5.71E-04          | 0.00E+00                |
| Vermont  | Franklin County      | 50011 | R                    | 8.32E-03                                                                | 8.41E-03 | 1.00E-02 | 1.43E-02 | 2.19E-02 | 2.15E-02 | 5.44E-02 | 6.16E-02 | 0.00E+00                         | 7.04E-03          | 1.22E-02         | 2.70E-03          | 0.00E+00                |
| Vermont  | Grand Isle County    | 50013 | R                    | 7.72E-03                                                                | 8.20E-03 | 9.66E-03 | 1.21E-02 | 1.28E-02 | 1.45E-02 | 1.60E-02 | 1.65E-02 | 0.00E+00                         | 1.22E-03          | 7.89E-03         | 3.68E-03          | 0.00E+00                |
| Vermont  | Lamoille County      | 50015 | R                    | 8.87E-03                                                                | 8.93E-03 | 9.83E-03 | 1.15E-02 | 1.20E-02 | 1.28E-02 | 1.43E-02 | 1.53E-02 | 0.00E+00                         | 4.94E-03          | 5.49E-03         | 1.59E-03          | 0.00E+00                |
| Vermont  | Orange County        | 50017 | R                    | 2.66E-02                                                                | 2.74E-02 | 2.96E-02 | 3.10E-02 | 3.47E-02 | 3.21E-02 | 4.49E-02 | 4.92E-02 | 0.00E+00                         | 6.16E-03          | 5.55E-03         | 2.30E-02          | 0.00E+00                |
| Vermont  | Orleans County       | 50019 | R                    | 6.24E-03                                                                | 6.43E-03 | 7.11E-03 | 1.00E-02 | 1.24E-02 | 1.51E-02 | 2.34E-02 | 2.81E-02 | 0.00E+00                         | 6.70E-03          | 4.89E-03         | 8.27E-04          | 0.00E+00                |
| Vermont  | Rutland County       | 50021 | R                    | 9.15E-03                                                                | 9.88E-03 | 1.12E-02 | 1.22E-02 | 2.34E-02 | 2.30E-02 | 3.42E-02 | 4.69E-02 | 8.95E-11                         | 7.14E-03          | 1.40E-02         | 2.29E-03          | 0.00E+00                |
| Vermont  | Washington County    | 50023 | R                    | 1.31E-02                                                                | 1.36E-02 | 1.43E-02 | 1.74E-02 | 2.78E-02 | 3.50E-02 | 5.48E-02 | 5.76E-02 | 0.00E+00                         | 7.03E-03          | 1.53E-02         | 5.48E-03          | 0.00E+00                |
| Vermont  | Windham County       | 50025 | R                    | 6.98E-03                                                                | 7.67E-03 | 8.15E-03 | 9.74E-03 | 1.45E-02 | 1.64E-02 | 2.17E-02 | 2.41E-02 | 1.65E-10                         | 6.25E-03          | 7.06E-03         | 1.21E-03          | 0.00E+00                |
| Vermont  | Windsor County       | 50027 | R                    | 1.22E-02                                                                | 1.36E-02 | 1.49E-02 | 1.78E-02 | 2.33E-02 | 2.60E-02 | 3.03E-02 | 3.60E-02 | 3.54E-11                         | 6.96E-03          | 8.52E-03         | 7.82E-03          | 0.00E+00                |
| Virginia | Statewide            | 51000 | -                    | 0.00E+00                                                                | 0.00E+00 | 1.20E-02 | 3.98E-02 | 5.31E-02 | 7.02E-02 | 9.74E-02 | 1.18E-01 | 3.65E-06                         | 2.59E-03          | 3.94E-02         | 1.11E-02          | 0.00E+00                |
| Virginia | State Urban Counties | 51000 | U                    | 0.00E+00                                                                | 0.00E+00 | 2.75E-02 | 5.41E-02 | 6.47E-02 | 7.89E-02 | 1.06E-01 | 1.25E-01 | 4.30E-06                         | 2.01E-03          | 4.86E-02         | 1.40E-02          | 0.00E+00                |
| Virginia | State Rural Counties | 51000 | R                    | 0.00E+00                                                                | 0.00E+00 | 7.96E-03 | 1.15E-02 | 1.79E-02 | 1.80E-02 | 2.85E-02 | 3.85E-02 | 1.69E-06                         | 4.36E-03          | 1.13E-02         | 2.23E-03          | 0.00E+00                |
| Virginia | Accomack County      | 51001 | R                    | 3.44E-03                                                                | 6.88E-03 | 1.07E-02 | 1.38E-02 | 1.71E-02 | 2.23E-02 | 2.44E-02 | 2.59E-02 | 3.23E-13                         | 2.34E-03          | 6.79E-03         | 7.96E-03          | 0.00E+00                |
| Virginia | Albemarle County     | 51003 | R                    | 0.00E+00                                                                | 0.00E+00 | 1.47E-02 | 2.27E-02 | 3.18E-02 | 3.66E-02 | 5.47E-02 | 6.38E-02 | 0.00E+00                         | 4.81E-03          | 2.22E-02         | 4.72E-03          | 0.00E+00                |
| Virginia | Alleghany County     | 51005 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.02E-02 | 1.20E-02 | 2.94E-02 | 5.10E-02 | 0.00E+00                         | 6.42E-03          | 3.12E-02         | 2.60E-03          | 0.00E+00                |
| Virginia | Amelia County        | 51007 | R                    | 9.58E-03                                                                | 9.65E-03 | 9.86E-03 | 1.02E-02 | 1.03E-02 | 1.06E-02 | 1.08E-02 | 1.09E-02 | 0.00E+00                         | 3.93E-03          | 5.36E-03         | 9.75E-04          | 0.00E+00                |
| Virginia | Amherst County       | 51009 | R                    | 4.62E-03                                                                | 9.23E-03 | 1.85E-02 | 2.19E-02 | 2.63E-02 | 2.88E-02 | 4.10E-02 | 4.26E-02 | 0.00E+00                         | 5.85E-03          | 1.85E-02         | 1.95E-03          | 0.00E+00                |
| Virginia | Appomattox County    | 51011 | R                    | 1.31E-02                                                                | 1.33E-02 | 1.37E-02 | 1.44E-02 | 2.00E-02 | 2.13E-02 | 2.54E-02 | 2.67E-02 | 0.00E+00                         | 7.61E-03          | 1.12E-02         | 1.27E-03          | 0.00E+00                |
| Virginia | Arlington County     | 51013 | U                    | 4.00E-03                                                                | 8.41E-02 | 9.64E-02 | 1.18E-01 | 1.73E-01 | 1.54E-01 | 1.80E-01 | 2.00E-01 | 0.00E+00                         | 5.24E-04          | 9.80E-02         | 7.46E-02          | 0.00E+00                |
| Virginia | Augusta County       | 51015 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 9.64E-03 | 1.15E-02 | 1.01E-02 | 1.17E-02 | 1.36E-02 | 0.00E+00                         | 3.49E-03          | 5.84E-03         | 2.14E-03          | 0.00E+00                |
| Virginia | Bath County          | 51017 | R                    | 5.54E-03                                                                | 5.54E-03 | 5.54E-03 | 5.54E-03 | 5.54E-03 | 5.54E-03 | 5.54E-03 | 5.54E-03 | 0.00E+00                         | 4.37E-03          | 1.03E-03         | 1.33E-04          | 0.00E+00                |
| Virginia | Bedford County       | 51019 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-02 | 1.24E-02 | 1.99E-02 | 2.15E-02 | 0.00E+00                         | 2.91E-03          | 1.25E-02         | 2.67E-03          | 0.00E+00                |
| Virginia | Bland County         | 51021 | R                    | 6.54E-03                                                                | 6.58E-03 | 6.68E-03 | 6.86E-03 | 6.91E-03 | 7.04E-03 | 7.14E-03 | 7.18E-03 | 1.04E-08                         | 3.86E-03          | 2.67E-03         | 3.72E-04          | 0.00E+00                |
| Virginia | Botetourt County     | 51023 | R                    | 8.27E-03                                                                | 8.56E-03 | 9.44E-03 | 1.30E-02 | 1.91E-02 | 2.42E-02 | 3.00E-02 | 3.19E-02 | 0.00E+00                         | 4.53E-03          | 1.20E-02         | 2.53E-03          | 0.00E+00                |
| Virginia | Brunswick County     | 51025 | R                    | 6.70E-03                                                                | 6.76E-03 | 6.93E-03 | 7.22E-03 | 7.15E-03 | 7.30E-03 | 7.34E-03 | 7.36E-03 | 0.00E+00                         | 3.74E-03          | 3.04E-03         | 3.72E-04          | 0.00E+00                |
| Virginia | Buchanan County      | 51027 | R                    | 1.10E-02                                                                | 1.13E-02 | 1.17E-02 | 1.29E-02 | 1.34E-02 | 1.48E-02 | 1.78E-02 | 1.95E-02 | 1.19E-08                         | 5.60E-03          | 7.34E-03         | 4.86E-04          | 0.00E+00                |
| Virginia | Buckingham County    | 51029 | R                    | 9.59E-03                                                                | 9.61E-03 | 9.66E-03 | 9.75E-03 | 9.72E-03 | 9.83E-03 | 9.88E-03 | 9.90E-03 | 0.00E+00                         | 4.81E-03          | 4.17E-03         | 7.43E-04          | 0.00E+00                |
| Virginia | Campbell County      | 51031 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-02 | 1.92E-02 | 3.16E-02 | 4.01E-02 | 0.00E+00                         | 4.90E-03          | 1.79E-02         | 3.78E-03          | 0.00E+00                |
| Virginia | Caroline County      | 51033 | R                    | 1.10E-02                                                                | 1.17E-02 | 1.31E-02 | 1.34E-02 | 1.39E-02 | 1.44E-02 | 1.73E-02 | 1.86E-02 | 0.00E+00                         | 4.29E-03          | 8.17E-03         | 1.39E-03          | 0.00E+00                |
| Virginia | Carroll County       | 51035 | R                    | 2.30E-03                                                                | 4.61E-03 | 7.81E-03 | 8.08E-03 | 9.24E-03 | 9.63E-03 | 1.06E-02 | 1.10E-02 | 3.02E-12                         | 2.87E-03          | 5.63E-03         | 7.44E-04          | 0.00E+00                |
| Virginia | Charles City County  | 51036 | U                    | 8.57E-03                                                                | 8.81E-03 | 9.54E-03 | 1.08E-02 | 1.09E-02 | 1.22E-02 | 1.30E-02 | 1.33E-02 | 2.12E-10                         | 2.61E-03          | 6.73E-03         | 1.58E-03          | 0.00E+00                |
| Virginia | Charlotte County     | 51037 | R                    | 8.56E-03                                                                | 8.58E-03 | 8.64E-03 | 8.74E-03 | 8.73E-03 | 8.86E-03 | 8.93E-03 | 8.96E-03 | 0.00E+00                         | 4.31E-03          | 3.89E-03         | 5.31E-04          | 0.00E+00                |
| Virginia | Chesterfield County  | 51041 | U                    | 2.18E-02                                                                | 2.38E-02 | 3.36E-02 | 4.24E-02 | 4.00E-02 | 4.88E-02 | 5.41E-02 | 6.43E-02 | 2.81E-13                         | 2.98E-03          | 3.02E-02         | 6.86E-03          | 0.00E+00                |
| Virginia | Clarke County        | 51043 | U                    | 1.01E-02                                                                | 1.02E-02 | 1.06E-02 | 1.11E-02 | 1.19E-02 | 1.36E-02 | 1.52E-02 | 1.57E-02 | 0.00E+00                         | 1.80E-03          | 7.76E-03         | 2.34E-03          | 0.00E+00                |
| Virginia | Craig County         | 51045 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 6.14E-03 | 9.83E-03 | 1.11E-02 | 0.00E+00                         | 6.22E-03          | 4.55E-03         | 1.52E-03          | 0.00E+00                |
| Virginia | Culpeper County      | 51047 | U                    | 1.06E-02                                                                | 1.09E-02 | 1.18E-02 | 1.53E-02 | 1.73E-02 | 1.74E-02 | 2.97E-02 | 3.38E-02 | 0.00E+00                         | 3.87E-03          | 1.03E-02         | 3.07E-03          | 0.00E+00                |
| Virginia | Cumberland County    | 51049 | R                    | 9.84E-03                                                                | 9.94E-03 | 1.02E-02 | 1.07E-02 | 1.05E-02 | 1.12E-02 | 1.14E-02 | 1.15E-02 | 0.00E+00                         | 4.77E-03          | 4.81E-03         | 8.82E-04          | 0.00E+00                |
| Virginia | Dickenson County     | 51051 | R                    | 1.05E-02                                                                | 1.06E-02 | 1.10E-02 | 1.51E-02 | 1.51E-02 | 1.91E-02 | 1.92E-02 | 1.92E-02 | 1.53E-06                         | 6.25E-03          | 8.34E-03         | 5.36E-04          | 0.00E+00                |
| Virginia | Dinwiddie County     | 51053 | U                    | 1.37E-02                                                                | 1.38E-02 | 1.52E-02 | 2.07E-02 | 1.82E-02 | 2.49E-02 | 3.15E-02 | 3.45E-02 | 0.00E+00                         | 3.66E-03          | 1.25E-02         | 2.06E-03          | 0.00E+00                |
| Virginia | Essex County         | 51057 | R                    | 6.94E-03                                                                | 6.96E-03 | 7.00E-03 | 7.07E-03 | 9.73E-03 | 1.11E-02 | 1.36E-02 | 1.44E-02 | 5.03E-12                         | 3.22E-03          | 5.28E-03         | 1.22E-03          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Virginia | Fairfax County       | 51059 | U                    | 0.00E+00                                                                | 0.00E+00 | 6.12E-02 | 7.31E-02 | 8.27E-02 | 8.89E-02 | 1.12E-01 | 1.20E-01 | 0.00E+00                         | 1.44E-03          | 6.26E-02         | 1.87E-02          | 0.00E+00                |
| Virginia | Fauquier County      | 51061 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.28E-02 | 2.45E-02 | 2.10E-02 | 2.84E-02 | 3.60E-02 | 0.00E+00                         | 4.28E-03          | 1.59E-02         | 4.25E-03          | 0.00E+00                |
| Virginia | Floyd County         | 51063 | R                    | 7.65E-03                                                                | 7.66E-03 | 7.71E-03 | 7.79E-03 | 7.76E-03 | 7.88E-03 | 7.93E-03 | 7.94E-03 | 0.00E+00                         | 2.73E-03          | 4.17E-03         | 8.58E-04          | 0.00E+00                |
| Virginia | Fluvanna County      | 51065 | R                    | 1.62E-03                                                                | 3.24E-03 | 8.09E-03 | 1.34E-02 | 1.85E-02 | 1.85E-02 | 2.29E-02 | 2.43E-02 | 0.00E+00                         | 4.06E-03          | 1.11E-02         | 3.33E-03          | 0.00E+00                |
| Virginia | Franklin County      | 51067 | R                    | 8.39E-03                                                                | 8.92E-03 | 9.66E-03 | 1.07E-02 | 1.21E-02 | 1.49E-02 | 1.57E-02 | 1.68E-02 | 0.00E+00                         | 3.07E-03          | 7.47E-03         | 1.52E-03          | 0.00E+00                |
| Virginia | Frederick County     | 51069 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.36E-02 | 2.12E-02 | 1.81E-02 | 2.68E-02 | 2.93E-02 | 0.00E+00                         | 2.57E-03          | 1.52E-02         | 3.41E-03          | 0.00E+00                |
| Virginia | Giles County         | 51071 | R                    | 1.25E-02                                                                | 1.34E-02 | 1.61E-02 | 1.82E-02 | 1.72E-02 | 1.88E-02 | 1.90E-02 | 1.90E-02 | 0.00E+00                         | 6.96E-03          | 9.14E-03         | 1.08E-03          | 0.00E+00                |
| Virginia | Gloucester County    | 51073 | U                    | 1.16E-02                                                                | 1.16E-02 | 1.17E-02 | 1.21E-02 | 1.55E-02 | 1.34E-02 | 1.85E-02 | 2.01E-02 | 1.50E-08                         | 2.16E-03          | 1.04E-02         | 2.93E-03          | 0.00E+00                |
| Virginia | Goochland County     | 51075 | U                    | 1.45E-02                                                                | 1.48E-02 | 1.58E-02 | 1.59E-02 | 1.69E-02 | 1.69E-02 | 2.52E-02 | 2.80E-02 | 0.00E+00                         | 3.74E-03          | 1.03E-02         | 2.90E-03          | 0.00E+00                |
| Virginia | Grayson County       | 51077 | R                    | 7.60E-03                                                                | 7.71E-03 | 8.04E-03 | 8.58E-03 | 9.82E-03 | 1.04E-02 | 1.15E-02 | 1.18E-02 | 0.00E+00                         | 3.46E-03          | 5.75E-03         | 6.16E-04          | 0.00E+00                |
| Virginia | Greene County        | 51079 | R                    | 1.30E-02                                                                | 1.32E-02 | 1.38E-02 | 1.49E-02 | 1.46E-02 | 1.59E-02 | 1.65E-02 | 1.67E-02 | 0.00E+00                         | 3.07E-03          | 9.56E-03         | 1.93E-03          | 0.00E+00                |
| Virginia | Greensville County   | 51081 | R                    | 5.30E-03                                                                | 5.39E-03 | 5.64E-03 | 6.07E-03 | 6.05E-03 | 6.50E-03 | 6.76E-03 | 6.85E-03 | 3.91E-12                         | 3.05E-03          | 2.61E-03         | 3.98E-04          | 0.00E+00                |
| Virginia | Halifax County       | 51083 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 9.82E-03 | 1.34E-02 | 1.07E-02 | 1.43E-02 | 2.11E-02 | 4.75E-11                         | 6.04E-03          | 6.63E-03         | 7.41E-04          | 0.00E+00                |
| Virginia | Hanover County       | 51085 | U                    | 1.58E-02                                                                | 1.62E-02 | 1.74E-02 | 2.44E-02 | 2.60E-02 | 2.95E-02 | 3.09E-02 | 3.81E-02 | 3.46E-13                         | 3.72E-03          | 1.71E-02         | 5.10E-03          | 0.00E+00                |
| Virginia | Henrico County       | 51087 | U                    | 2.46E-02                                                                | 3.05E-02 | 3.91E-02 | 4.19E-02 | 4.40E-02 | 4.73E-02 | 5.99E-02 | 6.54E-02 | 3.62E-12                         | 1.62E-03          | 3.50E-02         | 7.44E-03          | 0.00E+00                |
| Virginia | Henry County         | 51089 | R                    | 1.24E-02                                                                | 1.26E-02 | 1.37E-02 | 1.65E-02 | 2.00E-02 | 2.25E-02 | 3.38E-02 | 3.55E-02 | 4.07E-14                         | 4.31E-03          | 1.44E-02         | 1.25E-03          | 0.00E+00                |
| Virginia | Highland County      | 51091 | R                    | 6.36E-03                                                                | 6.36E-03 | 6.36E-03 | 6.36E-03 | 6.36E-03 | 6.36E-03 | 6.36E-03 | 6.36E-03 | 0.00E+00                         | 5.17E-03          | 1.01E-03         | 1.71E-04          | 0.00E+00                |
| Virginia | Isle of Wight County | 51093 | U                    | 9.81E-03                                                                | 9.86E-03 | 9.99E-03 | 1.31E-02 | 1.44E-02 | 1.63E-02 | 1.65E-02 | 1.65E-02 | 1.17E-09                         | 3.07E-03          | 8.52E-03         | 2.76E-03          | 0.00E+00                |
| Virginia | James City County    | 51095 | U                    | 1.49E-02                                                                | 1.49E-02 | 1.49E-02 | 1.99E-02 | 2.19E-02 | 2.63E-02 | 2.88E-02 | 2.97E-02 | 2.91E-09                         | 2.46E-03          | 1.33E-02         | 6.07E-03          | 0.00E+00                |
| Virginia | King and Queen Count | 51097 | R                    | 8.45E-03                                                                | 8.45E-03 | 8.45E-03 | 8.45E-03 | 8.45E-03 | 8.46E-03 | 8.46E-03 | 8.46E-03 | 5.17E-10                         | 3.24E-03          | 4.13E-03         | 1.09E-03          | 0.00E+00                |
| Virginia | King George County   | 51099 | U                    | 1.23E-02                                                                | 1.24E-02 | 1.27E-02 | 1.42E-02 | 1.43E-02 | 1.54E-02 | 1.55E-02 | 1.56E-02 | 0.00E+00                         | 3.19E-03          | 9.72E-03         | 1.39E-03          | 0.00E+00                |
| Virginia | King William County  | 51101 | R                    | 8.12E-03                                                                | 8.60E-03 | 1.00E-02 | 1.25E-02 | 1.23E-02 | 1.36E-02 | 1.43E-02 | 1.45E-02 | 2.65E-10                         | 3.48E-03          | 7.36E-03         | 1.49E-03          | 0.00E+00                |
| Virginia | Lancaster County     | 51103 | R                    | 1.01E-02                                                                | 1.02E-02 | 1.05E-02 | 1.10E-02 | 1.09E-02 | 1.14E-02 | 1.16E-02 | 1.17E-02 | 4.66E-10                         | 2.34E-03          | 6.39E-03         | 2.19E-03          | 0.00E+00                |
| Virginia | Lee County           | 51105 | R                    | 9.46E-03                                                                | 9.61E-03 | 1.02E-02 | 1.31E-02 | 1.35E-02 | 1.52E-02 | 1.84E-02 | 2.00E-02 | 1.63E-05                         | 4.55E-03          | 8.35E-03         | 5.83E-04          | 0.00E+00                |
| Virginia | Loudoun County       | 51107 | U                    | 1.67E-02                                                                | 1.84E-02 | 2.04E-02 | 3.74E-02 | 5.29E-02 | 5.79E-02 | 9.42E-02 | 1.06E-01 | 0.00E+00                         | 3.50E-03          | 2.29E-02         | 2.65E-02          | 0.00E+00                |
| Virginia | Louisa County        | 51109 | R                    | 1.11E-02                                                                | 1.13E-02 | 1.20E-02 | 1.20E-02 | 1.27E-02 | 1.26E-02 | 1.46E-02 | 1.52E-02 | 2.54E-14                         | 3.56E-03          | 7.28E-03         | 1.81E-03          | 0.00E+00                |
| Virginia | Lunenburg County     | 51111 | R                    | 9.34E-03                                                                | 9.39E-03 | 9.54E-03 | 9.80E-03 | 1.05E-02 | 1.08E-02 | 1.14E-02 | 1.16E-02 | 0.00E+00                         | 5.64E-03          | 4.46E-03         | 4.30E-04          | 0.00E+00                |
| Virginia | Madison County       | 51113 | R                    | 1.09E-02                                                                | 1.11E-02 | 1.19E-02 | 1.31E-02 | 1.32E-02 | 1.43E-02 | 1.51E-02 | 1.53E-02 | 0.00E+00                         | 4.59E-03          | 7.34E-03         | 1.28E-03          | 0.00E+00                |
| Virginia | Mathews County       | 51115 | U                    | 1.25E-02                                                                | 1.25E-02 | 1.26E-02 | 1.28E-02 | 1.28E-02 | 1.29E-02 | 1.30E-02 | 1.31E-02 | 4.46E-09                         | 1.88E-03          | 7.05E-03         | 3.82E-03          | 0.00E+00                |
| Virginia | Mecklenburg County   | 51117 | R                    | 9.12E-03                                                                | 9.17E-03 | 9.55E-03 | 1.08E-02 | 1.25E-02 | 1.14E-02 | 1.43E-02 | 1.75E-02 | 4.32E-11                         | 5.07E-03          | 6.37E-03         | 1.07E-03          | 0.00E+00                |
| Virginia | Middlesex County     | 51119 | R                    | 7.53E-03                                                                | 7.75E-03 | 8.42E-03 | 8.79E-03 | 8.61E-03 | 8.86E-03 | 8.95E-03 | 8.99E-03 | 1.43E-09                         | 1.75E-03          | 5.08E-03         | 1.78E-03          | 0.00E+00                |
| Virginia | Montgomery County    | 51121 | U                    | 9.68E-03                                                                | 1.25E-02 | 1.44E-02 | 2.80E-02 | 2.89E-02 | 3.01E-02 | 4.63E-02 | 4.72E-02 | 0.00E+00                         | 7.04E-03          | 1.51E-02         | 6.77E-03          | 0.00E+00                |
| Virginia | Nelson County        | 51125 | R                    | 9.73E-03                                                                | 9.94E-03 | 1.06E-02 | 1.17E-02 | 1.11E-02 | 1.19E-02 | 1.21E-02 | 1.21E-02 | 0.00E+00                         | 4.16E-03          | 5.67E-03         | 1.28E-03          | 0.00E+00                |
| Virginia | New Kent County      | 51127 | U                    | 9.47E-03                                                                | 1.00E-02 | 1.16E-02 | 1.43E-02 | 1.50E-02 | 1.84E-02 | 2.08E-02 | 2.16E-02 | 3.03E-10                         | 3.56E-03          | 9.24E-03         | 2.17E-03          | 0.00E+00                |
| Virginia | Northampton County   | 51131 | R                    | 7.63E-03                                                                | 7.75E-03 | 8.09E-03 | 8.66E-03 | 8.49E-03 | 9.03E-03 | 9.25E-03 | 9.33E-03 | 3.95E-10                         | 6.91E-04          | 3.55E-03         | 4.24E-03          | 0.00E+00                |
| Virginia | Northumberland Count | 51133 | R                    | 8.22E-03                                                                | 8.29E-03 | 8.48E-03 | 8.81E-03 | 8.81E-03 | 9.03E-03 | 9.16E-03 | 9.21E-03 | 8.57E-11                         | 2.19E-03          | 4.90E-03         | 1.73E-03          | 0.00E+00                |
| Virginia | Nottoway County      | 51135 | R                    | 1.30E-02                                                                | 1.36E-02 | 1.52E-02 | 1.80E-02 | 1.58E-02 | 1.81E-02 | 1.81E-02 | 1.81E-02 | 0.00E+00                         | 6.81E-03          | 8.01E-03         | 9.77E-04          | 0.00E+00                |
| Virginia | Orange County        | 51137 | R                    | 1.16E-02                                                                | 1.18E-02 | 1.23E-02 | 1.32E-02 | 1.28E-02 | 1.34E-02 | 1.35E-02 | 1.36E-02 | 0.00E+00                         | 3.40E-03          | 7.86E-03         | 1.55E-03          | 0.00E+00                |
| Virginia | Page County          | 51139 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.52E-02 | 2.15E-02 | 2.52E-02 | 2.83E-02 | 3.09E-02 | 0.00E+00                         | 4.98E-03          | 1.21E-02         | 4.39E-03          | 0.00E+00                |
| Virginia | Patrick County       | 51141 | R                    | 8.25E-03                                                                | 8.26E-03 | 8.26E-03 | 8.27E-03 | 8.51E-03 | 8.61E-03 | 8.81E-03 | 8.88E-03 | 0.00E+00                         | 3.55E-03          | 4.46E-03         | 5.05E-04          | 0.00E+00                |
| Virginia | Pittsylvania County  | 51143 | R                    | 0.00E+00                                                                | 0.00E+00 | 9.54E-03 | 1.18E-02 | 1.57E-02 | 1.73E-02 | 3.15E-02 | 4.78E-02 | 6.24E-12                         | 4.13E-03          | 1.03E-02         | 1.34E-03          | 0.00E+00                |
| Virginia | Powhatan County      | 51145 | U                    | 1.51E-02                                                                | 1.52E-02 | 1.57E-02 | 1.68E-02 | 1.80E-02 | 2.01E-02 | 2.45E-02 | 2.59E-02 | 1.69E-12                         | 4.27E-03          | 1.08E-02         | 2.97E-03          | 0.00E+00                |
| Virginia | Prince Edward County | 51147 | R                    | 9.07E-03                                                                | 9.38E-03 | 1.03E-02 | 1.18E-02 | 1.39E-02 | 1.54E-02 | 1.75E-02 | 1.82E-02 | 0.00E+00                         | 6.61E-03          | 6.51E-03         | 7.83E-04          | 0.00E+00                |
| Virginia | Prince George County | 51149 | U                    | 0.00E+00                                                                | 0.00E+00 | 7.51E-03 | 2.04E-02 | 2.69E-02 | 2.95E-02 | 3.30E-02 | 3.55E-02 | 3.08E-12                         | 3.41E-03          | 2.11E-02         | 2.36E-03          | 0.00E+00                |
| Virginia | Prince William Count | 51153 | U                    | 0.00E+00                                                                | 0.00E+00 | 3.69E-02 | 4.91E-02 | 5.51E-02 | 6.55E-02 | 7.41E-02 | 7.66E-02 | 0.00E+00                         | 2.78E-03          | 4.24E-02         | 9.89E-03          | 0.00E+00                |
| Virginia | Pulaski County       | 51155 | R                    | 4.81E-03                                                                | 9.61E-03 | 1.45E-02 | 2.47E-02 | 2.73E-02 | 3.16E-02 | 3.60E-02 | 4.11E-02 | 0.00E+00                         | 5.48E-03          | 1.89E-02         | 2.94E-03          | 0.00E+00                |
| Virginia | Rappahannock County  | 51157 | R                    | 9.65E-03                                                                | 9.75E-03 | 1.01E-02 | 1.06E-02 | 1.04E-02 | 1.11E-02 | 1.13E-02 | 1.14E-02 | 0.00E+00                         | 3.42E-03          | 5.42E-03         | 1.51E-03          | 0.00E+00                |
| Virginia | Richmond County      | 51159 | R                    | 7.47E-03                                                                | 7.81E-03 | 8.84E-03 | 1.05E-02 | 9.49E-03 | 1.23E-02 | 1.33E-02 | 1.36E-02 | 3.11E-12                         | 3.34E-03          | 4.99E-03         | 1.16E-03          | 0.00E+00                |
| Virginia | Roanoke County       | 51161 | R                    | 0.00E+00                                                                | 1.09E-02 | 3.04E-02 | 4.29E-02 | 4.78E-02 | 5.55E-02 | 5.80E-02 | 5.99E-02 | 0.00E+00                         | 3.51E-03          | 3.52E-02         | 9.06E-03          | 0.00E+00                |
| Virginia | Rockbridge County    | 51163 | R                    | 0.00E+00                                                                | 0.00E+00 | 3.41E-03 | 1.38E-02 | 1.73E-02 | 1.57E-02 | 1.96E-02 | 2.13E-02 | 0.00E+00                         | 1.13E-02          | 4.71E-03         | 1.34E-03          | 0.00E+00                |
| Virginia | Rockingham County    | 51165 | R                    | 9.23E-03                                                                | 1.00E-02 | 1.06E-02 | 1.17E-02 | 1.52E-02 | 1.79E-02 | 2.40E-02 | 2.46E-02 | 0.00E+00                         | 3.74E-03          | 9.88E-03         | 1.55E-03          | 0.00E+00                |
| Virginia | Russell County       | 51167 | R                    | 8.92E-03                                                                | 9.08E-03 | 9.46E-03 | 1.03E-02 | 1.10E-02 | 1.11E-02 | 1.51E-02 | 1.72E-02 | 7.22E-06                         | 3.54E-03          | 6.91E-03         | 5.84E-04          | 0.00E+00                |

| State    | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|          |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|          |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Virginia | Scott County         | 51169 | U                    | 9.61E-03                                                                | 1.01E-02 | 1.20E-02 | 1.54E-02 | 1.99E-02 | 2.71E-02 | 3.42E-02 | 3.60E-02 | 7.99E-04                         | 5.32E-03          | 1.23E-02         | 1.47E-03          | 0.00E+00                |
| Virginia | Shenandoah County    | 51171 | R                    | 9.66E-03                                                                | 1.05E-02 | 1.14E-02 | 1.61E-02 | 1.62E-02 | 1.70E-02 | 1.94E-02 | 2.18E-02 | 0.00E+00                         | 5.05E-03          | 9.65E-03         | 1.48E-03          | 0.00E+00                |
| Virginia | Smyth County         | 51173 | R                    | 9.04E-03                                                                | 9.78E-03 | 1.08E-02 | 1.24E-02 | 1.79E-02 | 2.15E-02 | 3.11E-02 | 3.31E-02 | 2.58E-08                         | 6.12E-03          | 1.10E-02         | 8.56E-04          | 0.00E+00                |
| Virginia | Southampton County   | 51175 | R                    | 4.86E-03                                                                | 5.01E-03 | 5.79E-03 | 7.32E-03 | 7.23E-03 | 1.51E-02 | 1.91E-02 | 1.98E-02 | 5.04E-11                         | 3.76E-03          | 2.98E-03         | 4.96E-04          | 0.00E+00                |
| Virginia | Spotsylvania County  | 51177 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.82E-02 | 3.36E-02 | 2.65E-02 | 4.27E-02 | 4.44E-02 | 0.00E+00                         | 5.05E-03          | 2.45E-02         | 3.97E-03          | 0.00E+00                |
| Virginia | Stafford County      | 51179 | U                    | 1.89E-02                                                                | 1.99E-02 | 2.55E-02 | 3.86E-02 | 3.83E-02 | 4.37E-02 | 4.82E-02 | 5.99E-02 | 0.00E+00                         | 5.07E-03          | 2.56E-02         | 7.56E-03          | 0.00E+00                |
| Virginia | Surry County         | 51181 | R                    | 6.77E-03                                                                | 7.00E-03 | 7.68E-03 | 8.82E-03 | 8.68E-03 | 9.97E-03 | 1.07E-02 | 1.09E-02 | 1.83E-09                         | 3.21E-03          | 4.15E-03         | 1.31E-03          | 0.00E+00                |
| Virginia | Sussex County        | 51183 | R                    | 5.54E-03                                                                | 5.69E-03 | 6.15E-03 | 7.47E-03 | 7.28E-03 | 8.55E-03 | 8.55E-03 | 8.55E-03 | 3.55E-11                         | 3.18E-03          | 3.56E-03         | 5.36E-04          | 0.00E+00                |
| Virginia | Tazewell County      | 51185 | R                    | 9.02E-03                                                                | 1.06E-02 | 1.19E-02 | 1.61E-02 | 2.04E-02 | 2.58E-02 | 3.14E-02 | 4.29E-02 | 0.00E+00                         | 7.14E-03          | 1.21E-02         | 1.21E-03          | 0.00E+00                |
| Virginia | Warren County        | 51187 | U                    | 5.94E-03                                                                | 1.19E-02 | 1.79E-02 | 2.24E-02 | 4.78E-02 | 4.10E-02 | 9.63E-02 | 1.10E-01 | 0.00E+00                         | 5.69E-03          | 1.94E-02         | 2.27E-02          | 0.00E+00                |
| Virginia | Washington County    | 51191 | U                    | 5.61E-03                                                                | 1.12E-02 | 1.25E-02 | 1.57E-02 | 2.10E-02 | 2.23E-02 | 3.02E-02 | 3.50E-02 | 1.40E-05                         | 3.84E-03          | 1.55E-02         | 1.67E-03          | 0.00E+00                |
| Virginia | Westmoreland County  | 51193 | R                    | 7.47E-03                                                                | 7.64E-03 | 8.16E-03 | 8.64E-03 | 9.58E-03 | 9.68E-03 | 1.12E-02 | 1.17E-02 | 0.00E+00                         | 2.06E-03          | 6.27E-03         | 1.26E-03          | 0.00E+00                |
| Virginia | Wise County          | 51195 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.20E-02 | 1.92E-02 | 2.00E-02 | 2.51E-02 | 2.77E-02 | 4.94E-05                         | 4.98E-03          | 1.30E-02         | 1.20E-03          | 0.00E+00                |
| Virginia | Wythe County         | 51197 | R                    | 7.89E-03                                                                | 7.89E-03 | 7.91E-03 | 8.39E-03 | 9.33E-03 | 1.00E-02 | 1.21E-02 | 1.28E-02 | 0.00E+00                         | 3.23E-03          | 5.04E-03         | 1.06E-03          | 0.00E+00                |
| Virginia | York County          | 51199 | U                    | 0.00E+00                                                                | 2.02E-03 | 1.36E-02 | 1.70E-02 | 2.90E-02 | 2.91E-02 | 3.33E-02 | 3.69E-02 | 7.52E-08                         | 1.51E-03          | 1.96E-02         | 7.90E-03          | 0.00E+00                |
| Virginia | Alexandria city      | 51510 | U                    | 0.00E+00                                                                | 3.34E-02 | 8.83E-02 | 1.09E-01 | 1.18E-01 | 1.35E-01 | 1.55E-01 | 1.60E-01 | 0.00E+00                         | 5.28E-04          | 9.28E-02         | 2.48E-02          | 0.00E+00                |
| Virginia | Bedford city         | 51515 | U                    | 3.12E-03                                                                | 6.24E-03 | 1.56E-02 | 3.12E-02 | 6.24E-02 | 4.68E-02 | 5.62E-02 | 5.93E-02 | 0.00E+00                         | 8.92E-03          | 4.43E-02         | 9.18E-03          | 0.00E+00                |
| Virginia | Bristol city         | 51520 | U                    | 6.70E-02                                                                | 6.73E-02 | 6.85E-02 | 8.15E-02 | 8.42E-02 | 1.01E-01 | 1.12E-01 | 1.16E-01 | 2.38E-05                         | 3.94E-03          | 7.09E-02         | 9.35E-03          | 0.00E+00                |
| Virginia | Buena Vista city     | 51530 | U                    | 1.90E-03                                                                | 3.80E-03 | 9.50E-03 | 1.90E-02 | 3.80E-02 | 2.85E-02 | 3.42E-02 | 3.61E-02 | 0.00E+00                         | 5.06E-03          | 2.94E-02         | 3.59E-03          | 0.00E+00                |
| Virginia | Charlottesville city | 51540 | U                    | 0.00E+00                                                                | 0.00E+00 | 2.12E-02 | 1.03E-01 | 1.36E-01 | 1.38E-01 | 1.89E-01 | 1.99E-01 | 0.00E+00                         | 7.34E-03          | 9.66E-02         | 3.19E-02          | 0.00E+00                |
| Virginia | Chesapeake city      | 51550 | U                    | 1.69E-02                                                                | 2.74E-02 | 3.24E-02 | 4.45E-02 | 4.30E-02 | 5.24E-02 | 5.84E-02 | 6.34E-02 | 6.53E-10                         | 2.44E-03          | 3.29E-02         | 7.76E-03          | 0.00E+00                |
| Virginia | Clifton Forge city   | 51560 | U                    | 3.39E-03                                                                | 6.79E-03 | 1.70E-02 | 3.39E-02 | 6.79E-02 | 5.09E-02 | 6.11E-02 | 6.45E-02 | 0.00E+00                         | 2.37E-02          | 4.01E-02         | 4.04E-03          | 0.00E+00                |
| Virginia | Colonial Heights cit | 51570 | U                    | 3.26E-02                                                                | 3.30E-02 | 3.45E-02 | 3.61E-02 | 4.92E-02 | 6.90E-02 | 7.00E-02 | 7.03E-02 | 1.87E-13                         | 1.23E-03          | 4.23E-02         | 5.68E-03          | 0.00E+00                |
| Virginia | Covington city       | 51580 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 3.98E-02 | 8.10E-02 | 8.03E-02 | 8.13E-02 | 8.17E-02 | 0.00E+00                         | 8.30E-03          | 6.73E-02         | 5.33E-03          | 0.00E+00                |
| Virginia | Danville city        | 51590 | U                    | 0.00E+00                                                                | 0.00E+00 | 3.69E-02 | 6.10E-02 | 7.93E-02 | 7.93E-02 | 1.17E-01 | 1.28E-01 | 6.44E-12                         | 3.82E-03          | 6.76E-02         | 7.81E-03          | 0.00E+00                |
| Virginia | Emporia city         | 51595 | U                    | 4.17E-03                                                                | 8.34E-03 | 1.77E-02 | 2.12E-02 | 4.22E-02 | 3.54E-02 | 4.58E-02 | 4.87E-02 | 1.35E-10                         | 6.08E-03          | 3.17E-02         | 4.35E-03          | 0.00E+00                |
| Virginia | Fairfax city         | 51600 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 2.72E-02 | 8.04E-02 | 7.43E-02 | 9.29E-02 | 9.60E-02 | 0.00E+00                         | 1.23E-03          | 6.55E-02         | 1.36E-02          | 0.00E+00                |
| Virginia | Falls Church city    | 51610 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 9.67E-02 | 1.05E-01 | 1.07E-01 | 0.00E+00                         | 6.01E-04          | 5.99E-02         | 4.17E-02          | 0.00E+00                |
| Virginia | Franklin city        | 51620 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 1.38E-02 | 3.10E-02 | 2.92E-02 | 3.19E-02 | 3.28E-02 | 1.60E-10                         | 3.64E-03          | 2.46E-02         | 2.71E-03          | 0.00E+00                |
| Virginia | Fredericksburg city  | 51630 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 7.85E-02 | 1.04E-01 | 1.06E-01 | 1.20E-01 | 1.23E-01 | 0.00E+00                         | 3.39E-03          | 9.24E-02         | 8.45E-03          | 0.00E+00                |
| Virginia | Galax city           | 51640 | U                    | 2.52E-03                                                                | 5.03E-03 | 1.26E-02 | 2.52E-02 | 5.03E-02 | 3.78E-02 | 4.53E-02 | 4.78E-02 | 0.00E+00                         | 5.18E-03          | 4.03E-02         | 4.82E-03          | 0.00E+00                |
| Virginia | Hampton city         | 51650 | U                    | 6.76E-03                                                                | 2.80E-02 | 3.81E-02 | 4.65E-02 | 5.06E-02 | 6.18E-02 | 7.34E-02 | 7.75E-02 | 6.73E-09                         | 4.40E-04          | 4.29E-02         | 7.24E-03          | 0.00E+00                |
| Virginia | Harrisonburg city    | 51660 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.38E-02 | 9.48E-02 | 1.21E-01 | 1.39E-01 | 1.41E-01 | 1.41E-01 | 0.00E+00                         | 1.38E-03          | 1.07E-01         | 1.24E-02          | 0.00E+00                |
| Virginia | Hopewell city        | 51670 | U                    | 1.18E-02                                                                | 2.36E-02 | 4.71E-02 | 5.54E-02 | 7.30E-02 | 7.88E-02 | 8.59E-02 | 8.73E-02 | 0.00E+00                         | 2.08E-03          | 6.56E-02         | 5.38E-03          | 0.00E+00                |
| Virginia | Lexington city       | 51678 | U                    | 5.01E-02                                                                | 5.01E-02 | 5.01E-02 | 5.01E-02 | 5.01E-02 | 5.01E-02 | 5.01E-02 | 5.01E-02 | 0.00E+00                         | 1.07E-02          | 3.42E-02         | 5.23E-03          | 0.00E+00                |
| Virginia | Lynchburg city       | 51680 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 5.51E-02 | 8.02E-02 | 8.04E-02 | 1.00E-01 | 1.09E-01 | 0.00E+00                         | 2.59E-03          | 6.85E-02         | 9.13E-03          | 0.00E+00                |
| Virginia | Manassas city        | 51683 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.57E-02 | 3.27E-02 | 7.72E-02 | 9.18E-02 | 0.00E+00                         | 1.32E-03          | 6.25E-02         | 2.19E-02          | 0.00E+00                |
| Virginia | Manassas Park city   | 51685 | U                    | 1.25E-01                                                                | 1.27E-01 | 1.33E-01 | 1.44E-01 | 1.55E-01 | 1.55E-01 | 1.61E-01 | 1.63E-01 | 0.00E+00                         | 1.14E-03          | 7.30E-02         | 8.07E-02          | 0.00E+00                |
| Virginia | Martinsville city    | 51690 | U                    | 1.32E-02                                                                | 2.63E-02 | 5.37E-02 | 6.43E-02 | 6.88E-02 | 7.72E-02 | 8.40E-02 | 8.65E-02 | 2.64E-11                         | 3.12E-03          | 5.63E-02         | 9.38E-03          | 0.00E+00                |
| Virginia | Newport News city    | 51700 | U                    | 8.46E-03                                                                | 1.72E-02 | 3.32E-02 | 4.57E-02 | 4.63E-02 | 5.54E-02 | 6.97E-02 | 9.09E-02 | 1.32E-08                         | 5.94E-04          | 3.79E-02         | 7.78E-03          | 0.00E+00                |
| Virginia | Norfolk city         | 51710 | U                    | 2.48E-02                                                                | 4.44E-02 | 5.79E-02 | 7.26E-02 | 7.37E-02 | 8.90E-02 | 1.07E-01 | 1.14E-01 | 1.35E-09                         | 2.75E-04          | 6.18E-02         | 1.17E-02          | 0.00E+00                |
| Virginia | Norton city          | 51720 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.39E-02 | 2.54E-02 | 3.58E-02 | 3.67E-02 | 8.25E-05                         | 5.13E-03          | 2.50E-02         | 3.67E-03          | 0.00E+00                |
| Virginia | Petersburg city      | 51730 | U                    | 3.61E-02                                                                | 6.10E-02 | 6.72E-02 | 8.04E-02 | 9.05E-02 | 1.13E-01 | 1.26E-01 | 1.28E-01 | 3.40E-11                         | 1.52E-03          | 8.22E-02         | 6.84E-03          | 0.00E+00                |
| Virginia | Poquoson city        | 51735 | U                    | 2.12E-02                                                                | 2.23E-02 | 2.55E-02 | 3.08E-02 | 3.21E-02 | 3.51E-02 | 3.78E-02 | 3.86E-02 | 1.81E-08                         | 3.48E-04          | 2.28E-02         | 8.93E-03          | 0.00E+00                |
| Virginia | Portsmouth city      | 51740 | U                    | 1.26E-02                                                                | 3.26E-02 | 5.01E-02 | 6.27E-02 | 6.32E-02 | 7.41E-02 | 8.54E-02 | 9.55E-02 | 1.45E-09                         | 1.01E-03          | 5.37E-02         | 8.53E-03          | 0.00E+00                |
| Virginia | Radford city         | 51750 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-02 | 2.32E-02 | 2.94E-02 | 3.15E-02 | 0.00E+00                         | 2.02E-03          | 2.16E-02         | 3.74E-03          | 0.00E+00                |
| Virginia | Richmond city        | 51760 | U                    | 0.00E+00                                                                | 0.00E+00 | 4.93E-02 | 6.32E-02 | 6.59E-02 | 8.04E-02 | 9.67E-02 | 1.00E-01 | 5.91E-13                         | 8.04E-04          | 5.37E-02         | 1.13E-02          | 0.00E+00                |
| Virginia | Roanoke city         | 51770 | U                    | 7.04E-02                                                                | 7.17E-02 | 7.67E-02 | 9.22E-02 | 9.61E-02 | 1.13E-01 | 1.36E-01 | 1.49E-01 | 0.00E+00                         | 1.26E-03          | 6.95E-02         | 2.54E-02          | 0.00E+00                |
| Virginia | Salem city           | 51775 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 4.97E-02 | 7.52E-02 | 7.40E-02 | 7.84E-02 | 7.86E-02 | 0.00E+00                         | 3.07E-03          | 5.45E-02         | 1.77E-02          | 0.00E+00                |
| Virginia | Staunton city        | 51790 | U                    | 3.34E-02                                                                | 3.40E-02 | 3.80E-02 | 5.00E-02 | 4.73E-02 | 5.72E-02 | 7.78E-02 | 8.75E-02 | 0.00E+00                         | 2.12E-03          | 3.81E-02         | 7.05E-03          | 0.00E+00                |
| Virginia | Suffolk city         | 51800 | U                    | 7.72E-03                                                                | 8.25E-03 | 1.01E-02 | 1.42E-02 | 1.67E-02 | 2.72E-02 | 3.36E-02 | 3.46E-02 | 5.64E-10                         | 2.86E-03          | 1.14E-02         | 2.41E-03          | 0.00E+00                |
| Virginia | Virginia Beach city  | 51810 | U                    | 2.49E-02                                                                | 2.85E-02 | 4.28E-02 | 5.24E-02 | 5.62E-02 | 6.55E-02 | 7.56E-02 | 7.86E-02 | 3.27E-10                         | 7.16E-04          | 4.55E-02         | 9.97E-03          | 0.00E+00                |

| State         | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|---------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|               |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|               |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Virginia      | Waynesboro city      | 51820 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 4.94E-02 | 6.77E-02 | 7.48E-02 | 1.01E-01 | 1.13E-01 | 0.00E+00                         | 4.99E-03          | 5.24E-02         | 1.03E-02          | 0.00E+00                |
| Virginia      | Williamsburg city    | 51830 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 2.44E-02 | 4.68E-02 | 4.37E-02 | 4.77E-02 | 4.95E-02 | 1.77E-09                         | 3.22E-03          | 2.97E-02         | 1.38E-02          | 0.00E+00                |
| Virginia      | Winchester city      | 51840 | U                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 3.53E-02 | 1.03E-01 | 8.45E-02 | 1.24E-01 | 1.42E-01 | 0.00E+00                         | 2.04E-03          | 8.57E-02         | 1.51E-02          | 0.00E+00                |
| Washington    | Statewide            | 53000 | -                    | 6.47E-03                                                                | 1.07E-02 | 2.34E-02 | 3.97E-02 | 4.64E-02 | 5.84E-02 | 8.35E-02 | 1.02E-01 | 8.75E-07                         | 5.59E-03          | 2.81E-02         | 1.28E-02          | 0.00E+00                |
| Washington    | State Urban Counties | 53000 | U                    | 1.12E-02                                                                | 1.79E-02 | 2.92E-02 | 4.43E-02 | 5.02E-02 | 6.33E-02 | 8.78E-02 | 1.04E-01 | 9.72E-07                         | 4.72E-03          | 3.12E-02         | 1.43E-02          | 0.00E+00                |
| Washington    | State Rural Counties | 53000 | R                    | 2.80E-03                                                                | 4.41E-03 | 8.23E-03 | 1.63E-02 | 2.19E-02 | 2.75E-02 | 4.32E-02 | 5.27E-02 | 2.46E-07                         | 1.13E-02          | 7.77E-03         | 2.79E-03          | 0.00E+00                |
| Washington    | Adams County         | 53001 | R                    | 9.50E-04                                                                | 1.10E-03 | 1.56E-03 | 4.83E-03 | 4.70E-03 | 7.69E-03 | 7.74E-03 | 7.76E-03 | 0.00E+00                         | 5.09E-04          | 3.76E-03         | 4.31E-04          | 0.00E+00                |
| Washington    | Asotin County        | 53003 | R                    | 1.30E-02                                                                | 1.55E-02 | 2.11E-02 | 2.38E-02 | 2.31E-02 | 2.52E-02 | 2.88E-02 | 3.05E-02 | 0.00E+00                         | 2.84E-03          | 1.32E-02         | 7.08E-03          | 0.00E+00                |
| Washington    | Benton County        | 53005 | U                    | 3.95E-03                                                                | 6.24E-03 | 1.75E-02 | 3.01E-02 | 3.01E-02 | 3.59E-02 | 5.45E-02 | 5.58E-02 | 0.00E+00                         | 5.01E-03          | 1.38E-02         | 1.13E-02          | 0.00E+00                |
| Washington    | Chelan County        | 53007 | U                    | 7.49E-03                                                                | 9.44E-03 | 1.48E-02 | 2.54E-02 | 3.98E-02 | 5.25E-02 | 7.93E-02 | 8.65E-02 | 0.00E+00                         | 2.43E-02          | 5.45E-03         | 1.01E-02          | 0.00E+00                |
| Washington    | Clallam County       | 53009 | R                    | 6.38E-03                                                                | 8.01E-03 | 1.67E-02 | 2.44E-02 | 4.01E-02 | 4.88E-02 | 7.27E-02 | 1.00E-01 | 2.05E-09                         | 2.73E-02          | 6.97E-03         | 5.78E-03          | 0.00E+00                |
| Washington    | Clark County         | 53011 | U                    | 3.20E-02                                                                | 3.43E-02 | 4.55E-02 | 5.66E-02 | 5.68E-02 | 7.72E-02 | 9.03E-02 | 9.88E-02 | 5.74E-11                         | 4.57E-03          | 3.57E-02         | 1.65E-02          | 0.00E+00                |
| Washington    | Columbia County      | 53013 | U                    | 4.60E-03                                                                | 4.60E-03 | 4.62E-03 | 4.64E-03 | 4.60E-03 | 4.67E-03 | 4.69E-03 | 4.69E-03 | 0.00E+00                         | 3.75E-03          | 5.88E-04         | 2.68E-04          | 0.00E+00                |
| Washington    | Cowlitz County       | 53015 | U                    | 1.79E-02                                                                | 1.84E-02 | 3.44E-02 | 4.09E-02 | 4.22E-02 | 5.69E-02 | 6.53E-02 | 7.11E-02 | 3.71E-10                         | 1.70E-02          | 1.62E-02         | 9.00E-03          | 0.00E+00                |
| Washington    | Douglas County       | 53017 | R                    | 2.73E-03                                                                | 3.51E-03 | 1.48E-02 | 2.30E-02 | 2.04E-02 | 2.86E-02 | 3.52E-02 | 3.77E-02 | 0.00E+00                         | 1.11E-02          | 5.98E-03         | 3.33E-03          | 0.00E+00                |
| Washington    | Ferry County         | 53019 | R                    | 4.45E-03                                                                | 4.50E-03 | 4.65E-03 | 4.91E-03 | 7.28E-03 | 7.97E-03 | 9.80E-03 | 1.04E-02 | 0.00E+00                         | 6.82E-03          | 3.12E-04         | 1.42E-04          | 0.00E+00                |
| Washington    | Franklin County      | 53021 | U                    | 1.76E-03                                                                | 1.81E-03 | 5.76E-03 | 2.82E-02 | 5.65E-02 | 1.04E-01 | 1.16E-01 | 1.22E-01 | 0.00E+00                         | 3.87E-02          | 1.05E-02         | 7.31E-03          | 0.00E+00                |
| Washington    | Garfield County      | 53023 | R                    | 8.50E-03                                                                | 8.52E-03 | 8.60E-03 | 8.72E-03 | 8.55E-03 | 8.84E-03 | 8.91E-03 | 8.94E-03 | 0.00E+00                         | 7.18E-03          | 8.63E-04         | 5.07E-04          | 0.00E+00                |
| Washington    | Grant County         | 53025 | R                    | 2.66E-03                                                                | 2.81E-03 | 3.28E-03 | 4.38E-03 | 7.05E-03 | 8.96E-03 | 9.67E-03 | 1.19E-02 | 0.00E+00                         | 2.02E-03          | 3.71E-03         | 1.32E-03          | 0.00E+00                |
| Washington    | Grays Harbor County  | 53027 | U                    | 5.71E-03                                                                | 8.03E-03 | 1.10E-02 | 2.98E-02 | 3.84E-02 | 6.44E-02 | 6.82E-02 | 7.67E-02 | 3.61E-11                         | 2.53E-02          | 4.45E-03         | 8.60E-03          | 0.00E+00                |
| Washington    | Island County        | 53029 | U                    | 1.10E-02                                                                | 1.11E-02 | 1.22E-02 | 1.39E-02 | 2.10E-02 | 1.88E-02 | 3.90E-02 | 4.16E-02 | 5.51E-06                         | 5.32E-03          | 1.05E-02         | 5.13E-03          | 0.00E+00                |
| Washington    | Jefferson County     | 53031 | R                    | 4.10E-03                                                                | 4.32E-03 | 5.41E-03 | 7.09E-03 | 8.48E-03 | 9.11E-03 | 1.08E-02 | 1.10E-02 | 6.76E-07                         | 4.66E-03          | 2.51E-03         | 1.32E-03          | 0.00E+00                |
| Washington    | King County          | 53033 | U                    | 3.05E-02                                                                | 3.95E-02 | 4.87E-02 | 6.42E-02 | 6.89E-02 | 8.45E-02 | 1.11E-01 | 1.29E-01 | 4.14E-10                         | 6.18E-04          | 4.55E-02         | 2.27E-02          | 0.00E+00                |
| Washington    | Kitsap County        | 53035 | U                    | 1.62E-02                                                                | 1.86E-02 | 2.28E-02 | 2.77E-02 | 2.95E-02 | 3.40E-02 | 4.47E-02 | 4.67E-02 | 1.81E-11                         | 1.60E-03          | 2.17E-02         | 6.22E-03          | 0.00E+00                |
| Washington    | Kittitas County      | 53037 | R                    | 6.46E-03                                                                | 7.03E-03 | 1.06E-02 | 1.64E-02 | 2.96E-02 | 4.60E-02 | 4.61E-02 | 4.61E-02 | 0.00E+00                         | 2.06E-02          | 7.17E-03         | 1.87E-03          | 0.00E+00                |
| Washington    | Klickitat County     | 53039 | R                    | 3.50E-03                                                                | 4.22E-03 | 6.36E-03 | 9.94E-03 | 7.02E-03 | 9.95E-03 | 9.95E-03 | 9.96E-03 | 0.00E+00                         | 5.75E-03          | 1.04E-03         | 2.28E-04          | 0.00E+00                |
| Washington    | Lewis County         | 53041 | R                    | 1.04E-02                                                                | 1.06E-02 | 1.33E-02 | 2.21E-02 | 2.02E-02 | 2.62E-02 | 3.07E-02 | 4.09E-02 | 1.45E-13                         | 1.20E-02          | 5.45E-03         | 2.74E-03          | 0.00E+00                |
| Washington    | Lincoln County       | 53043 | R                    | 4.41E-04                                                                | 4.84E-04 | 6.12E-04 | 1.08E-03 | 4.09E-03 | 6.18E-03 | 1.46E-02 | 1.75E-02 | 0.00E+00                         | 2.64E-03          | 1.20E-03         | 2.51E-04          | 0.00E+00                |
| Washington    | Mason County         | 53045 | R                    | 1.69E-02                                                                | 1.75E-02 | 1.96E-02 | 2.24E-02 | 2.94E-02 | 4.23E-02 | 5.36E-02 | 5.51E-02 | 8.90E-12                         | 1.67E-02          | 1.02E-02         | 2.53E-03          | 0.00E+00                |
| Washington    | Okanogan County      | 53047 | R                    | 4.73E-03                                                                | 5.58E-03 | 6.95E-03 | 9.31E-03 | 1.38E-02 | 1.18E-02 | 2.18E-02 | 2.94E-02 | 0.00E+00                         | 1.21E-02          | 1.40E-03         | 3.20E-04          | 0.00E+00                |
| Washington    | Pacific County       | 53049 | R                    | 1.75E-03                                                                | 3.50E-03 | 7.27E-03 | 9.75E-03 | 1.34E-02 | 1.51E-02 | 1.93E-02 | 2.23E-02 | 4.63E-08                         | 8.50E-03          | 1.76E-03         | 3.17E-03          | 0.00E+00                |
| Washington    | Pend Oreille County  | 53051 | R                    | 6.61E-03                                                                | 6.79E-03 | 7.33E-03 | 1.54E-02 | 1.38E-02 | 1.56E-02 | 2.14E-02 | 2.33E-02 | 0.00E+00                         | 1.07E-02          | 2.30E-03         | 8.10E-04          | 0.00E+00                |
| Washington    | Pierce County        | 53053 | U                    | 2.33E-02                                                                | 2.75E-02 | 3.88E-02 | 4.72E-02 | 4.78E-02 | 5.88E-02 | 7.01E-02 | 7.56E-02 | 0.00E+00                         | 4.18E-03          | 3.33E-02         | 1.04E-02          | 0.00E+00                |
| Washington    | San Juan County      | 53055 | R                    | 1.05E-02                                                                | 1.07E-02 | 1.16E-02 | 1.40E-02 | 1.60E-02 | 1.61E-02 | 2.40E-02 | 2.76E-02 | 1.44E-05                         | 6.02E-03          | 2.31E-03         | 7.60E-03          | 0.00E+00                |
| Washington    | Skagit County        | 53057 | U                    | 6.67E-03                                                                | 8.29E-03 | 1.23E-02 | 2.20E-02 | 3.14E-02 | 4.18E-02 | 5.32E-02 | 5.76E-02 | 9.02E-06                         | 1.22E-02          | 9.16E-03         | 1.01E-02          | 0.00E+00                |
| Washington    | Skamania County      | 53059 | R                    | 8.32E-03                                                                | 1.02E-02 | 1.60E-02 | 1.99E-02 | 2.33E-02 | 2.61E-02 | 3.16E-02 | 3.34E-02 | 3.29E-11                         | 1.83E-02          | 3.84E-03         | 1.17E-03          | 0.00E+00                |
| Washington    | Snohomish County     | 53061 | U                    | 2.18E-02                                                                | 2.44E-02 | 3.32E-02 | 4.09E-02 | 3.96E-02 | 4.63E-02 | 5.38E-02 | 5.92E-02 | 3.02E-08                         | 3.33E-03          | 2.67E-02         | 9.65E-03          | 0.00E+00                |
| Washington    | Spokane County       | 53063 | U                    | 1.32E-02                                                                | 1.85E-02 | 2.32E-02 | 2.89E-02 | 3.02E-02 | 3.40E-02 | 3.84E-02 | 4.07E-02 | 0.00E+00                         | 5.98E-03          | 1.92E-02         | 5.06E-03          | 0.00E+00                |
| Washington    | Stevens County       | 53065 | R                    | 4.19E-03                                                                | 5.77E-03 | 7.19E-03 | 1.13E-02 | 2.82E-02 | 3.43E-02 | 6.93E-02 | 1.25E-01 | 0.00E+00                         | 2.48E-02          | 2.79E-03         | 6.14E-04          | 0.00E+00                |
| Washington    | Thurston County      | 53067 | U                    | 2.25E-02                                                                | 2.31E-02 | 2.85E-02 | 3.95E-02 | 4.08E-02 | 5.19E-02 | 6.37E-02 | 7.02E-02 | 2.96E-10                         | 8.80E-03          | 2.43E-02         | 7.73E-03          | 0.00E+00                |
| Washington    | Wahkiakum County     | 53069 | R                    | 2.29E-02                                                                | 2.29E-02 | 2.29E-02 | 2.29E-02 | 2.29E-02 | 2.29E-02 | 2.29E-02 | 2.29E-02 | 4.55E-08                         | 1.58E-02          | 2.75E-03         | 4.37E-03          | 0.00E+00                |
| Washington    | Walla Walla County   | 53071 | U                    | 5.41E-03                                                                | 6.60E-03 | 1.79E-02 | 2.17E-02 | 2.58E-02 | 2.92E-02 | 3.29E-02 | 4.41E-02 | 0.00E+00                         | 1.45E-02          | 5.26E-03         | 6.03E-03          | 0.00E+00                |
| Washington    | Whatcom County       | 53073 | U                    | 7.37E-04                                                                | 4.01E-03 | 1.50E-02 | 3.18E-02 | 4.36E-02 | 5.54E-02 | 7.82E-02 | 8.45E-02 | 2.37E-05                         | 1.29E-02          | 1.45E-02         | 1.63E-02          | 0.00E+00                |
| Washington    | Whitman County       | 53075 | U                    | 1.20E-03                                                                | 1.46E-03 | 4.07E-03 | 1.08E-02 | 1.94E-02 | 1.90E-02 | 3.44E-02 | 4.74E-02 | 0.00E+00                         | 7.91E-04          | 6.62E-03         | 1.20E-02          | 0.00E+00                |
| Washington    | Yakima County        | 53077 | R                    | 1.03E-02                                                                | 1.11E-02 | 1.63E-02 | 2.61E-02 | 2.60E-02 | 3.67E-02 | 4.19E-02 | 4.67E-02 | 0.00E+00                         | 7.82E-03          | 1.47E-02         | 3.45E-03          | 0.00E+00                |
| West Virginia | Statewide            | 54000 | -                    | 7.22E-03                                                                | 8.65E-03 | 1.29E-02 | 2.34E-02 | 3.31E-02 | 4.70E-02 | 8.21E-02 | 9.47E-02 | 2.21E-03                         | 6.48E-03          | 2.08E-02         | 3.59E-03          | 0.00E+00                |
| West Virginia | State Urban Counties | 54000 | U                    | 1.84E-02                                                                | 2.16E-02 | 3.50E-02 | 5.29E-02 | 5.58E-02 | 8.10E-02 | 9.64E-02 | 1.15E-01 | 5.89E-03                         | 5.23E-03          | 3.73E-02         | 7.38E-03          | 0.00E+00                |
| West Virginia | State Rural Counties | 54000 | R                    | 6.47E-03                                                                | 7.65E-03 | 1.07E-02 | 1.47E-02 | 2.00E-02 | 2.48E-02 | 4.13E-02 | 5.27E-02 | 8.81E-05                         | 7.20E-03          | 1.13E-02         | 1.40E-03          | 0.00E+00                |
| West Virginia | Barbour County       | 54001 | R                    | 6.14E-03                                                                | 6.15E-03 | 6.20E-03 | 8.11E-03 | 1.05E-02 | 1.25E-02 | 1.71E-02 | 1.86E-02 | 0.00E+00                         | 5.67E-03          | 4.24E-03         | 5.44E-04          | 0.00E+00                |
| West Virginia | Berkeley County      | 54003 | U                    | 1.86E-02                                                                | 1.87E-02 | 1.93E-02 | 1.96E-02 | 2.60E-02 | 3.63E-02 | 4.17E-02 | 4.32E-02 | 0.00E+00                         | 2.88E-03          | 1.96E-02         | 3.53E-03          | 0.00E+00                |
| West Virginia | Boone County         | 54005 | R                    | 8.99E-03                                                                | 9.65E-03 | 1.07E-02 | 1.14E-02 | 1.39E-02 | 1.70E-02 | 2.58E-02 | 3.04E-02 | 6.07E-05                         | 6.50E-03          | 6.60E-03         | 7.81E-04          | 0.00E+00                |
| West Virginia | Braxton County       | 54007 | R                    | 8.80E-03                                                                | 9.52E-03 | 1.17E-02 | 1.53E-02 | 1.29E-02 | 1.53E-02 | 1.53E-02 | 1.54E-02 | 8.44E-05                         | 8.02E-03          | 4.21E-03         | 5.56E-04          | 0.00E+00                |

| State         | County            | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                      |                  |                   |                         |
|---------------|-------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|----------------------|------------------|-------------------|-------------------------|
|               |                   |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                      |                  |                   |                         |
|               |                   |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area<br>and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| West Virginia | Brooke County     | 54009 | R                    | 1.82E-02                                                                | 1.83E-02 | 2.34E-02 | 2.65E-02 | 3.01E-02 | 3.95E-02 | 4.68E-02 | 5.78E-02 | 4.54E-04                         | 3.40E-03             | 2.18E-02         | 4.38E-03          | 0.00E+00                |
| West Virginia | Cabell County     | 54011 | U                    | 1.25E-02                                                                | 2.67E-02 | 4.46E-02 | 6.63E-02 | 6.13E-02 | 8.67E-02 | 9.64E-02 | 1.11E-01 | 9.18E-05                         | 4.64E-03             | 4.78E-02         | 8.74E-03          | 0.00E+00                |
| West Virginia | Calhoun County    | 54013 | R                    | 8.59E-03                                                                | 8.63E-03 | 8.74E-03 | 8.93E-03 | 8.92E-03 | 9.11E-03 | 9.23E-03 | 9.26E-03 | 6.36E-04                         | 5.18E-03             | 2.75E-03         | 3.56E-04          | 0.00E+00                |
| West Virginia | Clay County       | 54015 | R                    | 1.28E-02                                                                | 1.33E-02 | 1.46E-02 | 1.67E-02 | 1.58E-02 | 1.71E-02 | 1.72E-02 | 1.73E-02 | 1.92E-04                         | 8.93E-03             | 5.90E-03         | 7.21E-04          | 0.00E+00                |
| West Virginia | Doddridge County  | 54017 | R                    | 8.95E-03                                                                | 8.98E-03 | 9.08E-03 | 9.24E-03 | 9.24E-03 | 9.40E-03 | 9.50E-03 | 9.53E-03 | 4.65E-05                         | 5.62E-03             | 3.10E-03         | 4.68E-04          | 0.00E+00                |
| West Virginia | Fayette County    | 54019 | R                    | 1.17E-02                                                                | 1.22E-02 | 1.27E-02 | 2.00E-02 | 2.44E-02 | 2.79E-02 | 3.27E-02 | 5.89E-02 | 4.95E-05                         | 9.22E-03             | 1.38E-02         | 1.29E-03          | 0.00E+00                |
| West Virginia | Gilmer County     | 54021 | R                    | 2.23E-02                                                                | 2.24E-02 | 2.24E-02 | 2.24E-02 | 2.28E-02 | 6.82E-02 | 9.57E-02 | 1.05E-01 | 2.73E-06                         | 1.86E-02             | 3.74E-03         | 3.70E-04          | 0.00E+00                |
| West Virginia | Grant County      | 54023 | R                    | 5.90E-03                                                                | 5.91E-03 | 5.92E-03 | 5.94E-03 | 1.05E-02 | 1.13E-02 | 1.46E-02 | 1.56E-02 | 0.00E+00                         | 7.10E-03             | 3.03E-03         | 3.32E-04          | 0.00E+00                |
| West Virginia | Greenbrier County | 54025 | R                    | 6.44E-03                                                                | 6.53E-03 | 6.96E-03 | 7.41E-03 | 1.06E-02 | 1.33E-02 | 2.05E-02 | 2.18E-02 | 0.00E+00                         | 6.16E-03             | 3.89E-03         | 5.61E-04          | 0.00E+00                |
| West Virginia | Hampshire County  | 54027 | R                    | 8.64E-03                                                                | 8.77E-03 | 9.13E-03 | 1.11E-02 | 1.26E-02 | 1.64E-02 | 1.65E-02 | 1.65E-02 | 0.00E+00                         | 6.84E-03             | 4.95E-03         | 8.21E-04          | 0.00E+00                |
| West Virginia | Hancock County    | 54029 | U                    | 2.16E-02                                                                | 2.42E-02 | 3.74E-02 | 3.99E-02 | 3.53E-02 | 4.51E-02 | 5.33E-02 | 5.67E-02 | 2.13E-04                         | 3.38E-03             | 2.60E-02         | 5.68E-03          | 0.00E+00                |
| West Virginia | Hardy County      | 54031 | R                    | 8.06E-03                                                                | 8.65E-03 | 1.04E-02 | 1.34E-02 | 1.16E-02 | 1.34E-02 | 1.35E-02 | 1.35E-02 | 0.00E+00                         | 7.79E-03             | 3.39E-03         | 4.43E-04          | 0.00E+00                |
| West Virginia | Harrison County   | 54033 | R                    | 9.97E-03                                                                | 9.97E-03 | 1.19E-02 | 1.46E-02 | 2.09E-02 | 2.39E-02 | 3.75E-02 | 4.36E-02 | 1.16E-05                         | 4.47E-03             | 1.41E-02         | 2.34E-03          | 0.00E+00                |
| West Virginia | Jackson County    | 54035 | R                    | 3.60E-03                                                                | 7.21E-03 | 1.23E-02 | 1.28E-02 | 1.78E-02 | 1.85E-02 | 2.20E-02 | 2.43E-02 | 8.41E-04                         | 9.11E-03             | 6.65E-03         | 1.16E-03          | 0.00E+00                |
| West Virginia | Jefferson County  | 54037 | U                    | 1.58E-02                                                                | 1.60E-02 | 1.63E-02 | 1.84E-02 | 2.25E-02 | 2.82E-02 | 2.89E-02 | 2.93E-02 | 0.00E+00                         | 1.80E-03             | 1.70E-02         | 3.73E-03          | 0.00E+00                |
| West Virginia | Kanawha County    | 54039 | U                    | 3.37E-02                                                                | 3.57E-02 | 4.47E-02 | 6.99E-02 | 6.93E-02 | 9.05E-02 | 1.16E-01 | 1.68E-01 | 3.61E-03                         | 7.04E-03             | 5.00E-02         | 8.66E-03          | 0.00E+00                |
| West Virginia | Lewis County      | 54041 | R                    | 9.44E-03                                                                | 9.56E-03 | 9.90E-03 | 1.08E-02 | 2.22E-02 | 4.03E-02 | 4.26E-02 | 4.33E-02 | 4.26E-08                         | 1.38E-02             | 7.70E-03         | 7.62E-04          | 0.00E+00                |
| West Virginia | Lincoln County    | 54043 | R                    | 7.66E-03                                                                | 7.69E-03 | 7.76E-03 | 8.38E-03 | 1.27E-02 | 1.63E-02 | 2.02E-02 | 2.15E-02 | 1.67E-04                         | 4.99E-03             | 6.56E-03         | 9.25E-04          | 0.00E+00                |
| West Virginia | Logan County      | 54045 | R                    | 1.48E-02                                                                | 1.55E-02 | 1.62E-02 | 1.70E-02 | 1.96E-02 | 2.25E-02 | 2.95E-02 | 3.76E-02 | 8.49E-06                         | 8.07E-03             | 1.06E-02         | 9.09E-04          | 0.00E+00                |
| West Virginia | McDowell County   | 54047 | R                    | 1.02E-02                                                                | 1.05E-02 | 1.17E-02 | 1.20E-02 | 1.64E-02 | 1.39E-02 | 5.36E-02 | 1.30E-01 | 1.03E-06                         | 9.48E-03             | 6.49E-03         | 4.57E-04          | 0.00E+00                |
| West Virginia | Marion County     | 54049 | R                    | 1.39E-02                                                                | 1.42E-02 | 1.55E-02 | 2.47E-02 | 2.51E-02 | 3.64E-02 | 4.25E-02 | 5.03E-02 | 1.62E-06                         | 4.79E-03             | 1.85E-02         | 1.87E-03          | 0.00E+00                |
| West Virginia | Marshall County   | 54051 | R                    | 4.81E-03                                                                | 9.61E-03 | 1.52E-02 | 3.13E-02 | 2.90E-02 | 3.46E-02 | 4.32E-02 | 5.73E-02 | 7.35E-06                         | 7.30E-03             | 1.99E-02         | 1.81E-03          | 0.00E+00                |
| West Virginia | Mason County      | 54053 | R                    | 9.53E-03                                                                | 9.54E-03 | 9.57E-03 | 1.10E-02 | 1.12E-02 | 1.27E-02 | 1.33E-02 | 1.35E-02 | 3.09E-04                         | 3.49E-03             | 6.72E-03         | 6.89E-04          | 0.00E+00                |
| West Virginia | Mercer County     | 54055 | R                    | 1.16E-02                                                                | 1.28E-02 | 1.45E-02 | 2.02E-02 | 2.14E-02 | 2.51E-02 | 3.22E-02 | 4.11E-02 | 6.78E-11                         | 5.09E-03             | 1.48E-02         | 1.46E-03          | 0.00E+00                |
| West Virginia | Mineral County    | 54057 | R                    | 9.38E-03                                                                | 9.83E-03 | 1.48E-02 | 2.40E-02 | 2.27E-02 | 2.70E-02 | 3.21E-02 | 3.47E-02 | 0.00E+00                         | 9.74E-03             | 1.15E-02         | 1.47E-03          | 0.00E+00                |
| West Virginia | Mingo County      | 54059 | R                    | 1.16E-02                                                                | 1.18E-02 | 1.25E-02 | 1.35E-02 | 1.66E-02 | 1.42E-02 | 2.35E-02 | 3.02E-02 | 1.26E-07                         | 6.69E-03             | 9.24E-03         | 6.81E-04          | 0.00E+00                |
| West Virginia | Monongalia County | 54061 | R                    | 1.18E-02                                                                | 1.26E-02 | 1.48E-02 | 3.44E-02 | 3.10E-02 | 4.08E-02 | 4.68E-02 | 5.37E-02 | 3.35E-08                         | 4.80E-03             | 2.26E-02         | 3.52E-03          | 0.00E+00                |
| West Virginia | Monroe County     | 54063 | R                    | 5.93E-03                                                                | 6.01E-03 | 6.26E-03 | 6.67E-03 | 7.04E-03 | 7.47E-03 | 7.95E-03 | 8.10E-03 | 0.00E+00                         | 3.80E-03             | 2.85E-03         | 3.90E-04          | 0.00E+00                |
| West Virginia | Morgan County     | 54065 | R                    | 1.19E-02                                                                | 1.19E-02 | 1.19E-02 | 1.24E-02 | 1.59E-02 | 1.61E-02 | 2.19E-02 | 2.39E-02 | 0.00E+00                         | 6.07E-03             | 8.51E-03         | 1.27E-03          | 0.00E+00                |
| West Virginia | Nicholas County   | 54067 | R                    | 8.07E-03                                                                | 8.27E-03 | 8.77E-03 | 1.01E-02 | 1.14E-02 | 1.12E-02 | 1.51E-02 | 1.80E-02 | 1.81E-05                         | 6.62E-03             | 4.23E-03         | 5.68E-04          | 0.00E+00                |
| West Virginia | Ohio County       | 54069 | U                    | 2.31E-02                                                                | 3.38E-02 | 4.47E-02 | 5.24E-02 | 5.12E-02 | 6.58E-02 | 7.88E-02 | 8.03E-02 | 1.95E-05                         | 4.04E-03             | 3.91E-02         | 7.99E-03          | 0.00E+00                |
| West Virginia | Pendleton County  | 54071 | R                    | 9.73E-03                                                                | 9.84E-03 | 1.02E-02 | 1.07E-02 | 1.23E-02 | 1.26E-02 | 1.37E-02 | 1.41E-02 | 0.00E+00                         | 9.68E-03             | 2.30E-03         | 2.74E-04          | 0.00E+00                |
| West Virginia | Pleasants County  | 54073 | R                    | 2.00E-02                                                                | 2.01E-02 | 2.05E-02 | 2.12E-02 | 2.14E-02 | 2.18E-02 | 2.22E-02 | 2.24E-02 | 1.72E-03                         | 7.08E-03             | 1.07E-02         | 1.84E-03          | 0.00E+00                |
| West Virginia | Pocahontas County | 54075 | R                    | 0.00E+00                                                                | 0.00E+00 | 0.00E+00 | 3.47E-03 | 6.10E-03 | 5.05E-03 | 8.20E-03 | 9.25E-03 | 0.00E+00                         | 5.00E-03             | 9.52E-04         | 1.49E-04          | 0.00E+00                |
| West Virginia | Preston County    | 54077 | R                    | 6.79E-03                                                                | 6.86E-03 | 7.21E-03 | 7.66E-03 | 8.34E-03 | 9.41E-03 | 9.91E-03 | 1.05E-02 | 6.31E-09                         | 3.95E-03             | 3.73E-03         | 6.55E-04          | 0.00E+00                |
| West Virginia | Putnam County     | 54079 | U                    | 2.29E-02                                                                | 2.30E-02 | 2.46E-02 | 4.11E-02 | 4.13E-02 | 4.26E-02 | 5.78E-02 | 7.16E-02 | 1.10E-03                         | 7.93E-03             | 2.39E-02         | 8.35E-03          | 0.00E+00                |
| West Virginia | Raleigh County    | 54081 | R                    | 1.64E-02                                                                | 1.74E-02 | 2.13E-02 | 3.76E-02 | 3.56E-02 | 6.13E-02 | 8.15E-02 | 8.46E-02 | 1.74E-05                         | 9.29E-03             | 2.36E-02         | 2.74E-03          | 0.00E+00                |
| West Virginia | Randolph County   | 54083 | R                    | 5.77E-03                                                                | 5.78E-03 | 6.32E-03 | 2.04E-02 | 2.14E-02 | 2.87E-02 | 3.61E-02 | 4.16E-02 | 0.00E+00                         | 1.44E-02             | 6.27E-03         | 7.60E-04          | 0.00E+00                |
| West Virginia | Ritchie County    | 54085 | R                    | 7.68E-03                                                                | 7.78E-03 | 8.08E-03 | 8.58E-03 | 1.01E-02 | 1.19E-02 | 1.39E-02 | 1.46E-02 | 1.08E-03                         | 5.51E-03             | 3.03E-03         | 4.71E-04          | 0.00E+00                |
| West Virginia | Roane County      | 54087 | R                    | 1.23E-02                                                                | 1.27E-02 | 1.40E-02 | 1.51E-02 | 2.27E-02 | 2.34E-02 | 3.79E-02 | 4.27E-02 | 3.00E-04                         | 1.38E-02             | 7.68E-03         | 9.74E-04          | 0.00E+00                |
| West Virginia | Summers County    | 54089 | R                    | 6.10E-03                                                                | 6.43E-03 | 7.45E-03 | 8.14E-03 | 1.75E-02 | 2.91E-02 | 6.67E-02 | 7.92E-02 | 8.72E-09                         | 1.25E-02             | 4.51E-03         | 5.25E-04          | 0.00E+00                |
| West Virginia | Taylor County     | 54091 | R                    | 9.47E-03                                                                | 9.53E-03 | 9.71E-03 | 1.23E-02 | 1.21E-02 | 1.48E-02 | 1.49E-02 | 1.49E-02 | 0.00E+00                         | 4.29E-03             | 6.73E-03         | 1.06E-03          | 0.00E+00                |
| West Virginia | Tucker County     | 54093 | R                    | 7.03E-03                                                                | 7.50E-03 | 8.90E-03 | 1.12E-02 | 1.04E-02 | 1.21E-02 | 1.26E-02 | 1.28E-02 | 0.00E+00                         | 7.49E-03             | 2.61E-03         | 3.12E-04          | 0.00E+00                |
| West Virginia | Tyler County      | 54095 | R                    | 8.27E-03                                                                | 8.38E-03 | 8.72E-03 | 9.28E-03 | 1.26E-02 | 1.39E-02 | 1.66E-02 | 1.75E-02 | 6.81E-05                         | 6.68E-03             | 5.30E-03         | 5.06E-04          | 0.00E+00                |
| West Virginia | Upshur County     | 54097 | R                    | 1.18E-02                                                                | 1.18E-02 | 1.24E-02 | 2.79E-02 | 2.86E-02 | 4.24E-02 | 4.96E-02 | 5.31E-02 | 0.00E+00                         | 1.35E-02             | 1.35E-02         | 1.60E-03          | 0.00E+00                |
| West Virginia | Wayne County      | 54099 | U                    | 1.21E-02                                                                | 1.32E-02 | 1.43E-02 | 2.52E-02 | 2.76E-02 | 3.68E-02 | 6.76E-02 | 7.11E-02 | 6.48E-05                         | 5.30E-03             | 1.88E-02         | 3.45E-03          | 0.00E+00                |
| West Virginia | Webster County    | 54101 | R                    | 1.67E-02                                                                | 1.68E-02 | 1.70E-02 | 1.75E-02 | 1.75E-02 | 1.77E-02 | 1.78E-02 | 1.78E-02 | 1.18E-06                         | 1.28E-02             | 4.17E-03         | 4.78E-04          | 0.00E+00                |
| West Virginia | Wetzel County     | 54103 | R                    | 7.18E-03                                                                | 7.24E-03 | 7.42E-03 | 9.61E-03 | 1.29E-02 | 1.44E-02 | 1.93E-02 | 2.09E-02 | 9.35E-06                         | 7.12E-03             | 5.18E-03         | 6.18E-04          | 0.00E+00                |
| West Virginia | Wirt County       | 54105 | R                    | 8.36E-03                                                                | 8.36E-03 | 8.36E-03 | 8.36E-03 | 8.36E-03 | 8.36E-03 | 8.36E-03 | 8.36E-03 | 1.59E-03                         | 3.36E-03             | 2.86E-03         | 5.51E-04          | 0.00E+00                |
| West Virginia | Wood County       | 54107 | U                    | 3.02E-02                                                                | 3.68E-02 | 4.34E-02 | 8.10E-02 | 8.34E-02 | 8.54E-02 | 1.17E-01 | 1.53E-01 | 3.51E-02                         | 4.66E-03             | 3.49E-02         | 8.71E-03          | 0.00E+00                |
| West Virginia | Wyoming County    | 54109 | R                    | 1.11E-02                                                                | 1.14E-02 | 1.23E-02 | 1.35E-02 | 1.29E-02 | 1.40E-02 | 1.41E-02 | 1.42E-02 | 4.41E-05                         | 5.87E-03             | 6.49E-03         | 5.28E-04          | 0.00E+00                |
| Wisconsin     | Statewide         | 55000 | -                    | 5.49E-03                                                                | 7.99E-03 | 1.73E-02 | 4.46E-02 | 5.75E-02 | 8.35E-02 | 1.22E-01 | 1.53E-01 | 2.73E-07                         | 1.69E-02             | 2.84E-02         | 1.22E-02          | 0.00E+00                |

| State     | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-----------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|           |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|           |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Wisconsin | State Urban Counties | 55000 | U                    | 1.23E-02                                                                | 1.85E-02 | 3.46E-02 | 5.83E-02 | 6.56E-02 | 9.56E-02 | 1.24E-01 | 1.57E-01 | 3.71E-07                         | 1.41E-02          | 3.67E-02         | 1.48E-02          | 0.00E+00                |
| Wisconsin | State Rural Counties | 55000 | R                    | 3.99E-03                                                                | 4.79E-03 | 7.79E-03 | 1.40E-02 | 3.74E-02 | 3.25E-02 | 8.43E-02 | 1.43E-01 | 3.14E-08                         | 2.38E-02          | 8.03E-03         | 5.59E-03          | 0.00E+00                |
| Wisconsin | Adams County         | 55001 | R                    | 7.14E-03                                                                | 7.43E-03 | 8.27E-03 | 1.44E-02 | 1.29E-02 | 1.50E-02 | 1.64E-02 | 1.75E-02 | 0.00E+00                         | 7.11E-03          | 3.60E-03         | 2.23E-03          | 0.00E+00                |
| Wisconsin | Ashland County       | 55003 | U                    | 5.34E-03                                                                | 5.71E-03 | 6.51E-03 | 1.08E-02 | 7.14E-02 | 1.05E-01 | 1.76E-01 | 1.78E-01 | 6.30E-12                         | 5.55E-02          | 3.16E-03         | 1.27E-02          | 0.00E+00                |
| Wisconsin | Barron County        | 55005 | R                    | 8.82E-03                                                                | 9.01E-03 | 1.16E-02 | 1.62E-02 | 4.64E-02 | 2.00E-02 | 1.50E-01 | 1.52E-01 | 3.10E-08                         | 3.44E-02          | 8.60E-03         | 3.41E-03          | 0.00E+00                |
| Wisconsin | Bayfield County      | 55007 | R                    | 2.46E-03                                                                | 2.59E-03 | 2.80E-03 | 3.19E-03 | 4.99E-03 | 4.48E-03 | 6.48E-03 | 7.75E-03 | 1.47E-10                         | 2.64E-03          | 6.21E-04         | 1.73E-03          | 0.00E+00                |
| Wisconsin | Brown County         | 55009 | U                    | 1.85E-02                                                                | 2.09E-02 | 3.47E-02 | 4.84E-02 | 4.90E-02 | 6.35E-02 | 7.31E-02 | 7.77E-02 | 0.00E+00                         | 3.12E-03          | 3.60E-02         | 9.90E-03          | 0.00E+00                |
| Wisconsin | Buffalo County       | 55011 | R                    | 4.59E-03                                                                | 4.85E-03 | 5.62E-03 | 6.00E-03 | 1.46E-02 | 1.10E-02 | 3.17E-02 | 3.87E-02 | 1.43E-08                         | 1.10E-02          | 3.00E-03         | 6.43E-04          | 0.00E+00                |
| Wisconsin | Burnett County       | 55013 | R                    | 2.73E-03                                                                | 2.86E-03 | 3.43E-03 | 4.76E-03 | 7.25E-03 | 9.53E-03 | 1.05E-02 | 1.07E-02 | 8.80E-08                         | 4.81E-03          | 1.60E-03         | 8.43E-04          | 0.00E+00                |
| Wisconsin | Calumet County       | 55015 | U                    | 0.00E+00                                                                | 0.00E+00 | 1.71E-03 | 9.32E-03 | 2.17E-02 | 1.38E-02 | 2.08E-02 | 3.85E-02 | 0.00E+00                         | 1.26E-03          | 1.43E-02         | 6.08E-03          | 0.00E+00                |
| Wisconsin | Chippewa County      | 55017 | R                    | 8.76E-03                                                                | 9.32E-03 | 1.26E-02 | 2.43E-02 | 5.19E-02 | 9.39E-02 | 1.19E-01 | 1.63E-01 | 1.10E-08                         | 3.71E-02          | 1.20E-02         | 2.82E-03          | 0.00E+00                |
| Wisconsin | Clark County         | 55019 | R                    | 5.54E-03                                                                | 5.73E-03 | 7.03E-03 | 7.86E-03 | 1.18E-02 | 1.23E-02 | 2.45E-02 | 2.52E-02 | 0.00E+00                         | 7.21E-03          | 3.97E-03         | 6.16E-04          | 0.00E+00                |
| Wisconsin | Columbia County      | 55021 | R                    | 2.41E-02                                                                | 2.73E-02 | 2.74E-02 | 2.88E-02 | 4.43E-02 | 4.75E-02 | 8.33E-02 | 8.53E-02 | 0.00E+00                         | 1.54E-02          | 8.55E-03         | 2.04E-02          | 0.00E+00                |
| Wisconsin | Crawford County      | 55023 | R                    | 3.05E-03                                                                | 3.16E-03 | 3.38E-03 | 3.80E-03 | 3.95E-02 | 3.73E-02 | 1.24E-01 | 1.62E-01 | 0.00E+00                         | 3.51E-02          | 3.96E-03         | 4.81E-04          | 0.00E+00                |
| Wisconsin | Dane County          | 55025 | U                    | 2.58E-02                                                                | 3.07E-02 | 4.47E-02 | 5.61E-02 | 6.30E-02 | 6.60E-02 | 8.34E-02 | 8.66E-02 | 0.00E+00                         | 2.91E-03          | 3.40E-02         | 2.61E-02          | 0.00E+00                |
| Wisconsin | Dodge County         | 55027 | R                    | 6.78E-03                                                                | 7.20E-03 | 8.06E-03 | 1.13E-02 | 1.52E-02 | 2.03E-02 | 2.77E-02 | 2.95E-02 | 0.00E+00                         | 1.28E-03          | 1.10E-02         | 2.95E-03          | 0.00E+00                |
| Wisconsin | Door County          | 55029 | R                    | 3.26E-03                                                                | 5.95E-03 | 6.41E-03 | 7.69E-03 | 1.46E-02 | 1.23E-02 | 2.26E-02 | 2.47E-02 | 0.00E+00                         | 3.93E-04          | 5.85E-03         | 8.36E-03          | 0.00E+00                |
| Wisconsin | Douglas County       | 55031 | U                    | 4.25E-03                                                                | 8.04E-03 | 1.81E-02 | 5.24E-02 | 7.74E-02 | 1.13E-01 | 2.33E-01 | 3.04E-01 | 6.95E-08                         | 6.16E-02          | 9.60E-03         | 6.27E-03          | 0.00E+00                |
| Wisconsin | Dunn County          | 55033 | R                    | 6.50E-03                                                                | 6.56E-03 | 7.17E-03 | 9.93E-03 | 7.21E-02 | 7.81E-02 | 1.87E-01 | 2.03E-01 | 2.16E-07                         | 6.13E-02          | 9.38E-03         | 1.39E-03          | 0.00E+00                |
| Wisconsin | Eau Claire County    | 55035 | U                    | 1.10E-02                                                                | 2.65E-02 | 4.29E-02 | 1.00E-01 | 1.29E-01 | 1.55E-01 | 2.36E-01 | 3.55E-01 | 3.63E-09                         | 8.83E-02          | 3.07E-02         | 9.93E-03          | 0.00E+00                |
| Wisconsin | Florence County      | 55037 | R                    | 5.03E-03                                                                | 5.25E-03 | 5.94E-03 | 7.09E-03 | 7.45E-03 | 8.23E-03 | 8.92E-03 | 9.15E-03 | 0.00E+00                         | 5.18E-03          | 1.60E-03         | 6.64E-04          | 0.00E+00                |
| Wisconsin | Fond du Lac County   | 55039 | U                    | 1.04E-02                                                                | 1.09E-02 | 1.34E-02 | 2.72E-02 | 2.86E-02 | 4.52E-02 | 5.66E-02 | 7.45E-02 | 0.00E+00                         | 2.17E-03          | 1.62E-02         | 1.03E-02          | 0.00E+00                |
| Wisconsin | Forest County        | 55041 | R                    | 3.88E-03                                                                | 3.97E-03 | 4.22E-03 | 8.96E-03 | 9.27E-03 | 1.36E-02 | 1.38E-02 | 1.38E-02 | 0.00E+00                         | 6.45E-03          | 1.69E-03         | 1.13E-03          | 0.00E+00                |
| Wisconsin | Grant County         | 55043 | R                    | 4.38E-03                                                                | 4.63E-03 | 5.76E-03 | 8.26E-03 | 2.57E-02 | 2.57E-02 | 7.23E-02 | 7.49E-02 | 4.73E-08                         | 1.94E-02          | 5.49E-03         | 8.23E-04          | 0.00E+00                |
| Wisconsin | Green County         | 55045 | R                    | 9.00E-03                                                                | 9.43E-03 | 1.09E-02 | 2.17E-02 | 6.63E-02 | 1.59E-01 | 1.60E-01 | 1.60E-01 | 0.00E+00                         | 5.42E-02          | 1.03E-02         | 1.92E-03          | 0.00E+00                |
| Wisconsin | Green Lake County    | 55047 | R                    | 1.06E-02                                                                | 1.09E-02 | 1.16E-02 | 1.49E-02 | 2.51E-02 | 4.29E-02 | 5.14E-02 | 5.16E-02 | 0.00E+00                         | 1.59E-02          | 7.12E-03         | 2.09E-03          | 0.00E+00                |
| Wisconsin | Iowa County          | 55049 | R                    | 4.84E-03                                                                | 4.99E-03 | 5.77E-03 | 7.29E-03 | 1.07E-02 | 7.49E-03 | 1.72E-02 | 2.21E-02 | 0.00E+00                         | 6.75E-03          | 2.84E-03         | 1.13E-03          | 0.00E+00                |
| Wisconsin | Iron County          | 55051 | R                    | 4.29E-03                                                                | 4.79E-03 | 6.30E-03 | 7.48E-03 | 3.68E-02 | 2.35E-02 | 5.18E-02 | 6.13E-02 | 0.00E+00                         | 3.07E-02          | 3.57E-03         | 2.50E-03          | 0.00E+00                |
| Wisconsin | Jackson County       | 55053 | R                    | 2.91E-03                                                                | 3.35E-03 | 4.67E-03 | 4.80E-03 | 2.14E-02 | 4.82E-03 | 4.46E-02 | 5.79E-02 | 0.00E+00                         | 1.83E-02          | 2.65E-03         | 3.61E-04          | 0.00E+00                |
| Wisconsin | Jefferson County     | 55055 | U                    | 1.05E-02                                                                | 1.08E-02 | 1.15E-02 | 1.52E-02 | 1.98E-02 | 2.44E-02 | 3.22E-02 | 3.93E-02 | 0.00E+00                         | 1.60E-03          | 1.29E-02         | 5.28E-03          | 0.00E+00                |
| Wisconsin | Juneau County        | 55057 | R                    | 1.67E-02                                                                | 1.68E-02 | 1.82E-02 | 2.41E-02 | 3.04E-02 | 3.40E-02 | 4.76E-02 | 5.42E-02 | 0.00E+00                         | 1.07E-02          | 3.54E-03         | 1.61E-02          | 0.00E+00                |
| Wisconsin | Kenosha County       | 55059 | U                    | 2.09E-02                                                                | 2.45E-02 | 3.09E-02 | 3.91E-02 | 3.89E-02 | 5.07E-02 | 5.60E-02 | 6.03E-02 | 2.82E-09                         | 4.46E-03          | 2.19E-02         | 1.26E-02          | 0.00E+00                |
| Wisconsin | Kewaunee County      | 55061 | R                    | 3.09E-03                                                                | 6.18E-03 | 1.04E-02 | 1.06E-02 | 1.24E-02 | 1.15E-02 | 1.48E-02 | 1.71E-02 | 0.00E+00                         | 5.33E-04          | 5.88E-03         | 6.02E-03          | 0.00E+00                |
| Wisconsin | La Crosse County     | 55063 | U                    | 1.08E-02                                                                | 2.07E-02 | 3.76E-02 | 8.37E-02 | 1.12E-01 | 1.46E-01 | 2.17E-01 | 2.23E-01 | 0.00E+00                         | 7.39E-02          | 2.76E-02         | 1.06E-02          | 0.00E+00                |
| Wisconsin | Lafayette County     | 55065 | R                    | 4.39E-03                                                                | 4.43E-03 | 4.54E-03 | 6.72E-03 | 6.94E-03 | 7.76E-03 | 9.82E-03 | 1.05E-02 | 0.00E+00                         | 4.55E-03          | 2.04E-03         | 3.44E-04          | 0.00E+00                |
| Wisconsin | Langlade County      | 55067 | R                    | 1.47E-02                                                                | 1.49E-02 | 1.99E-02 | 3.14E-02 | 1.14E-01 | 1.29E-01 | 2.23E-01 | 2.24E-01 | 0.00E+00                         | 8.83E-02          | 8.57E-03         | 1.67E-02          | 0.00E+00                |
| Wisconsin | Lincoln County       | 55069 | R                    | 7.79E-03                                                                | 7.91E-03 | 9.74E-03 | 1.31E-02 | 4.69E-02 | 3.72E-02 | 1.30E-01 | 1.47E-01 | 0.00E+00                         | 3.71E-02          | 7.50E-03         | 2.34E-03          | 0.00E+00                |
| Wisconsin | Manitowoc County     | 55071 | U                    | 1.11E-02                                                                | 1.11E-02 | 1.36E-02 | 2.37E-02 | 2.67E-02 | 4.03E-02 | 4.74E-02 | 5.65E-02 | 0.00E+00                         | 1.76E-03          | 1.28E-02         | 1.22E-02          | 0.00E+00                |
| Wisconsin | Marathon County      | 55073 | R                    | 9.70E-03                                                                | 1.09E-02 | 1.63E-02 | 3.80E-02 | 6.19E-02 | 1.05E-01 | 1.65E-01 | 1.95E-01 | 0.00E+00                         | 4.51E-02          | 1.56E-02         | 1.32E-03          | 0.00E+00                |
| Wisconsin | Marinette County     | 55075 | R                    | 0.00E+00                                                                | 2.42E-03 | 5.49E-03 | 6.57E-03 | 3.22E-02 | 1.17E-02 | 7.54E-02 | 8.70E-02 | 0.00E+00                         | 2.51E-02          | 6.20E-03         | 9.52E-04          | 0.00E+00                |
| Wisconsin | Marquette County     | 55077 | R                    | 9.25E-03                                                                | 1.02E-02 | 1.29E-02 | 1.49E-02 | 1.46E-02 | 1.54E-02 | 1.79E-02 | 1.87E-02 | 0.00E+00                         | 6.28E-03          | 3.47E-03         | 4.83E-03          | 0.00E+00                |
| Wisconsin | Menominee County     | 55078 | R                    | 2.45E-03                                                                | 2.45E-03 | 2.45E-03 | 2.45E-03 | 2.45E-03 | 2.45E-03 | 2.45E-03 | 2.45E-03 | 0.00E+00                         | 9.86E-04          | 9.67E-04         | 5.01E-04          | 0.00E+00                |
| Wisconsin | Milwaukee County     | 55079 | U                    | 6.39E-02                                                                | 7.04E-02 | 8.62E-02 | 1.05E-01 | 1.04E-01 | 1.22E-01 | 1.48E-01 | 1.79E-01 | 4.29E-12                         | 1.66E-02          | 6.75E-02         | 1.99E-02          | 0.00E+00                |
| Wisconsin | Monroe County        | 55081 | R                    | 1.80E-03                                                                | 3.61E-03 | 4.65E-03 | 8.81E-03 | 1.91E-02 | 2.59E-02 | 4.05E-02 | 4.09E-02 | 0.00E+00                         | 1.14E-02          | 6.58E-03         | 1.14E-03          | 0.00E+00                |
| Wisconsin | Oconto County        | 55083 | R                    | 8.72E-03                                                                | 8.76E-03 | 8.83E-03 | 1.07E-02 | 1.58E-02 | 1.34E-02 | 2.80E-02 | 3.07E-02 | 0.00E+00                         | 6.42E-03          | 4.03E-03         | 5.36E-03          | 0.00E+00                |
| Wisconsin | Oneida County        | 55085 | R                    | 1.43E-02                                                                | 1.45E-02 | 1.54E-02 | 2.10E-02 | 6.67E-02 | 4.66E-02 | 1.32E-01 | 1.77E-01 | 0.00E+00                         | 4.32E-02          | 7.80E-03         | 1.57E-02          | 0.00E+00                |
| Wisconsin | Outagamie County     | 55087 | U                    | 1.58E-02                                                                | 1.74E-02 | 4.39E-02 | 5.81E-02 | 4.83E-02 | 6.96E-02 | 7.83E-02 | 8.08E-02 | 0.00E+00                         | 3.21E-03          | 3.41E-02         | 1.10E-02          | 0.00E+00                |
| Wisconsin | Ozaukee County       | 55089 | U                    | 1.95E-02                                                                | 2.16E-02 | 2.62E-02 | 4.09E-02 | 3.54E-02 | 4.34E-02 | 4.44E-02 | 4.50E-02 | 0.00E+00                         | 3.43E-03          | 1.88E-02         | 1.32E-02          | 0.00E+00                |
| Wisconsin | Pepin County         | 55091 | R                    | 1.02E-02                                                                | 1.06E-02 | 1.17E-02 | 1.36E-02 | 1.38E-02 | 1.54E-02 | 1.66E-02 | 1.69E-02 | 5.16E-07                         | 1.01E-02          | 3.09E-03         | 6.49E-04          | 0.00E+00                |
| Wisconsin | Pierce County        | 55093 | U                    | 7.98E-03                                                                | 8.12E-03 | 1.55E-02 | 2.14E-02 | 7.19E-02 | 9.10E-02 | 2.03E-01 | 2.04E-01 | 2.17E-05                         | 5.58E-02          | 9.77E-03         | 6.30E-03          | 0.00E+00                |
| Wisconsin | Polk County          | 55095 | R                    | 1.48E-02                                                                | 1.58E-02 | 1.69E-02 | 2.10E-02 | 2.65E-02 | 2.86E-02 | 3.65E-02 | 3.97E-02 | 7.85E-07                         | 1.38E-02          | 4.54E-03         | 8.13E-03          | 0.00E+00                |
| Wisconsin | Portage County       | 55097 | U                    | 1.08E-02                                                                | 1.12E-02 | 1.23E-02 | 3.52E-02 | 8.16E-02 | 1.24E-01 | 2.63E-01 | 3.03E-01 | 0.00E+00                         | 5.80E-02          | 1.25E-02         | 1.11E-02          | 0.00E+00                |

| State       | County               | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------------|----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|             |                      |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|             |                      |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Wisconsin   | Price County         | 55099 | R                    | 4.02E-03                                                                | 4.06E-03 | 4.28E-03 | 5.25E-03 | 2.01E-02 | 2.76E-02 | 4.50E-02 | 4.50E-02 | 0.00E+00                         | 1.56E-02          | 2.76E-03         | 1.73E-03          | 0.00E+00                |
| Wisconsin   | Racine County        | 55101 | U                    | 2.16E-02                                                                | 2.26E-02 | 2.59E-02 | 3.17E-02 | 3.47E-02 | 4.48E-02 | 5.08E-02 | 5.41E-02 | 4.48E-10                         | 4.54E-03          | 2.07E-02         | 9.41E-03          | 0.00E+00                |
| Wisconsin   | Richland County      | 55103 | R                    | 5.65E-03                                                                | 5.89E-03 | 6.60E-03 | 8.48E-03 | 3.44E-02 | 8.56E-02 | 8.71E-02 | 8.76E-02 | 0.00E+00                         | 2.90E-02          | 4.62E-03         | 8.44E-04          | 0.00E+00                |
| Wisconsin   | Rock County          | 55105 | U                    | 1.54E-02                                                                | 1.67E-02 | 2.19E-02 | 4.50E-02 | 3.71E-02 | 5.14E-02 | 5.95E-02 | 6.48E-02 | 8.96E-09                         | 2.79E-03          | 2.68E-02         | 7.60E-03          | 0.00E+00                |
| Wisconsin   | Rusk County          | 55107 | R                    | 4.64E-03                                                                | 5.14E-03 | 6.65E-03 | 8.12E-03 | 4.18E-02 | 8.59E-03 | 8.18E-02 | 1.06E-01 | 0.00E+00                         | 3.68E-02          | 4.12E-03         | 8.48E-04          | 0.00E+00                |
| Wisconsin   | St. Croix County     | 55109 | U                    | 2.40E-02                                                                | 2.57E-02 | 3.63E-02 | 6.37E-02 | 8.21E-02 | 1.10E-01 | 1.55E-01 | 2.93E-01 | 1.15E-05                         | 5.57E-02          | 1.11E-02         | 1.53E-02          | 0.00E+00                |
| Wisconsin   | Sauk County          | 55111 | R                    | 9.35E-03                                                                | 1.04E-02 | 1.31E-02 | 1.56E-02 | 3.07E-02 | 4.42E-02 | 4.90E-02 | 4.97E-02 | 0.00E+00                         | 1.66E-02          | 7.08E-03         | 7.06E-03          | 0.00E+00                |
| Wisconsin   | Sawyer County        | 55113 | R                    | 1.11E-02                                                                | 1.15E-02 | 1.24E-02 | 1.40E-02 | 1.96E-02 | 1.67E-02 | 2.32E-02 | 2.94E-02 | 2.06E-11                         | 7.50E-03          | 1.90E-03         | 1.02E-02          | 0.00E+00                |
| Wisconsin   | Shawano County       | 55115 | R                    | 7.29E-03                                                                | 7.55E-03 | 7.75E-03 | 1.39E-02 | 3.77E-02 | 1.95E-02 | 1.27E-01 | 1.27E-01 | 0.00E+00                         | 2.81E-02          | 8.39E-03         | 1.29E-03          | 0.00E+00                |
| Wisconsin   | Sheboygan County     | 55117 | U                    | 1.75E-02                                                                | 1.76E-02 | 1.96E-02 | 2.59E-02 | 3.52E-02 | 4.62E-02 | 5.81E-02 | 6.05E-02 | 0.00E+00                         | 1.48E-03          | 1.45E-02         | 1.92E-02          | 0.00E+00                |
| Wisconsin   | Taylor County        | 55119 | R                    | 3.62E-03                                                                | 3.90E-03 | 4.48E-03 | 8.66E-03 | 4.46E-02 | 4.34E-02 | 1.24E-01 | 1.59E-01 | 0.00E+00                         | 4.01E-02          | 3.97E-03         | 5.33E-04          | 0.00E+00                |
| Wisconsin   | Trempealeau County   | 55121 | R                    | 6.04E-03                                                                | 6.29E-03 | 7.53E-03 | 8.41E-03 | 8.96E-03 | 1.08E-02 | 1.12E-02 | 1.15E-02 | 0.00E+00                         | 5.30E-03          | 3.06E-03         | 6.10E-04          | 0.00E+00                |
| Wisconsin   | Vernon County        | 55123 | R                    | 4.61E-03                                                                | 5.23E-03 | 6.16E-03 | 6.69E-03 | 1.38E-02 | 1.27E-02 | 2.67E-02 | 3.36E-02 | 0.00E+00                         | 1.00E-02          | 3.02E-03         | 8.10E-04          | 0.00E+00                |
| Wisconsin   | Vilas County         | 55125 | R                    | 2.26E-02                                                                | 2.37E-02 | 2.50E-02 | 2.71E-02 | 3.83E-02 | 3.86E-02 | 5.71E-02 | 6.28E-02 | 0.00E+00                         | 9.02E-03          | 3.24E-03         | 2.60E-02          | 0.00E+00                |
| Wisconsin   | Walworth County      | 55127 | R                    | 3.05E-02                                                                | 3.14E-02 | 3.33E-02 | 3.81E-02 | 4.80E-02 | 5.36E-02 | 7.92E-02 | 9.01E-02 | 9.25E-10                         | 1.56E-03          | 1.57E-02         | 3.08E-02          | 0.00E+00                |
| Wisconsin   | Washburn County      | 55129 | R                    | 4.33E-03                                                                | 4.99E-03 | 6.49E-03 | 7.52E-03 | 1.69E-02 | 1.04E-02 | 2.87E-02 | 3.75E-02 | 1.15E-11                         | 1.23E-02          | 2.62E-03         | 2.04E-03          | 0.00E+00                |
| Wisconsin   | Washington County    | 55131 | U                    | 1.07E-02                                                                | 1.27E-02 | 1.45E-02 | 2.14E-02 | 2.44E-02 | 3.43E-02 | 3.55E-02 | 3.80E-02 | 0.00E+00                         | 2.27E-03          | 1.56E-02         | 6.53E-03          | 0.00E+00                |
| Wisconsin   | Waukesha County      | 55133 | U                    | 2.33E-02                                                                | 2.46E-02 | 3.09E-02 | 4.27E-02 | 4.15E-02 | 4.94E-02 | 5.55E-02 | 7.16E-02 | 2.50E-15                         | 4.40E-03          | 2.58E-02         | 1.13E-02          | 0.00E+00                |
| Wisconsin   | Waupaca County       | 55135 | R                    | 8.86E-03                                                                | 1.01E-02 | 1.17E-02 | 1.41E-02 | 2.89E-02 | 2.60E-02 | 5.62E-02 | 6.41E-02 | 0.00E+00                         | 1.71E-02          | 7.98E-03         | 3.83E-03          | 0.00E+00                |
| Wisconsin   | Waushara County      | 55137 | R                    | 6.82E-03                                                                | 6.82E-03 | 7.10E-03 | 8.46E-03 | 9.77E-03 | 1.02E-02 | 1.35E-02 | 1.48E-02 | 0.00E+00                         | 5.34E-03          | 3.31E-03         | 1.12E-03          | 0.00E+00                |
| Wisconsin   | Winnebago County     | 55139 | U                    | 1.98E-02                                                                | 2.04E-02 | 3.66E-02 | 5.29E-02 | 4.99E-02 | 6.45E-02 | 7.95E-02 | 8.68E-02 | 0.00E+00                         | 3.71E-03          | 3.44E-02         | 1.18E-02          | 0.00E+00                |
| Wisconsin   | Wood County          | 55141 | R                    | 1.17E-02                                                                | 1.33E-02 | 1.81E-02 | 5.34E-02 | 8.52E-02 | 1.17E-01 | 2.16E-01 | 2.34E-01 | 0.00E+00                         | 6.62E-02          | 1.66E-02         | 2.44E-03          | 0.00E+00                |
| Wyoming     | Statewide            | 56000 | -                    | 1.24E-03                                                                | 1.80E-03 | 4.88E-03 | 1.48E-02 | 3.70E-02 | 4.39E-02 | 6.85E-02 | 9.43E-02 | 1.59E-04                         | 1.30E-02          | 1.91E-02         | 4.71E-03          | 0.00E+00                |
| Wyoming     | State Urban Counties | 56000 | U                    | 1.42E-03                                                                | 2.60E-03 | 7.17E-03 | 2.14E-02 | 3.76E-02 | 4.93E-02 | 6.85E-02 | 8.64E-02 | 2.16E-04                         | 8.48E-03          | 2.28E-02         | 6.10E-03          | 0.00E+00                |
| Wyoming     | State Rural Counties | 56000 | R                    | 1.19E-03                                                                | 1.33E-03 | 2.50E-03 | 6.70E-03 | 3.53E-02 | 1.63E-02 | 6.05E-02 | 1.49E-01 | 2.87E-08                         | 2.57E-02          | 8.81E-03         | 7.93E-04          | 0.00E+00                |
| Wyoming     | Albany County        | 56001 | U                    | 4.31E-03                                                                | 5.82E-03 | 1.49E-02 | 2.83E-02 | 3.44E-02 | 4.29E-02 | 5.04E-02 | 5.19E-02 | 6.04E-12                         | 7.47E-03          | 1.74E-02         | 9.54E-03          | 0.00E+00                |
| Wyoming     | Big Horn County      | 56003 | R                    | 4.42E-03                                                                | 4.67E-03 | 5.43E-03 | 6.69E-03 | 5.54E-03 | 6.70E-03 | 6.71E-03 | 6.72E-03 | 0.00E+00                         | 2.79E-03          | 2.54E-03         | 2.16E-04          | 0.00E+00                |
| Wyoming     | Campbell County      | 56005 | U                    | 5.27E-04                                                                | 1.05E-03 | 2.63E-03 | 8.63E-03 | 1.73E-02 | 1.89E-02 | 2.50E-02 | 3.66E-02 | 0.00E+00                         | 2.52E-05          | 1.46E-02         | 2.69E-03          | 0.00E+00                |
| Wyoming     | Carbon County        | 56007 | U                    | 1.26E-03                                                                | 1.34E-03 | 2.58E-03 | 5.87E-03 | 2.15E-02 | 1.53E-02 | 3.60E-02 | 3.63E-02 | 4.36E-09                         | 2.44E-03          | 1.15E-02         | 7.60E-03          | 0.00E+00                |
| Wyoming     | Converse County      | 56009 | R                    | 2.59E-04                                                                | 5.17E-04 | 1.68E-03 | 8.84E-03 | 2.56E-02 | 1.47E-02 | 3.22E-02 | 5.23E-02 | 7.12E-10                         | 1.76E-02          | 7.59E-03         | 3.86E-04          | 0.00E+00                |
| Wyoming     | Crook County         | 56011 | R                    | 2.51E-03                                                                | 2.52E-03 | 2.58E-03 | 2.68E-03 | 3.51E-03 | 3.85E-03 | 4.55E-03 | 4.79E-03 | 0.00E+00                         | 2.47E-03          | 9.34E-04         | 1.01E-04          | 0.00E+00                |
| Wyoming     | Fremont County       | 56013 | R                    | 1.59E-03                                                                | 1.80E-03 | 5.84E-03 | 2.59E-02 | 5.15E-02 | 4.51E-02 | 1.49E-01 | 1.49E-01 | 0.00E+00                         | 3.26E-02          | 1.83E-02         | 6.39E-04          | 0.00E+00                |
| Wyoming     | Goshen County        | 56015 | R                    | 1.57E-03                                                                | 1.98E-03 | 3.06E-03 | 8.43E-03 | 1.24E-02 | 1.54E-02 | 1.62E-02 | 1.63E-02 | 8.07E-11                         | 2.08E-03          | 1.02E-02         | 1.98E-04          | 0.00E+00                |
| Wyoming     | Hot Springs County   | 56017 | U                    | 2.36E-03                                                                | 2.48E-03 | 2.85E-03 | 3.47E-03 | 5.14E-02 | 4.05E-02 | 6.26E-02 | 7.00E-02 | 0.00E+00                         | 2.93E-02          | 1.72E-02         | 4.99E-03          | 0.00E+00                |
| Wyoming     | Johnson County       | 56019 | U                    | 4.41E-03                                                                | 5.68E-03 | 9.50E-03 | 5.31E-02 | 8.27E-02 | 9.46E-02 | 9.46E-02 | 9.46E-02 | 0.00E+00                         | 7.30E-02          | 5.24E-03         | 4.41E-03          | 0.00E+00                |
| Wyoming     | Laramie County       | 56021 | U                    | 1.31E-02                                                                | 1.49E-02 | 3.38E-02 | 4.79E-02 | 4.27E-02 | 5.22E-02 | 5.61E-02 | 6.53E-02 | 2.76E-08                         | 2.15E-03          | 3.61E-02         | 4.44E-03          | 0.00E+00                |
| Wyoming     | Lincoln County       | 56023 | R                    | 2.09E-03                                                                | 2.35E-03 | 3.14E-03 | 6.34E-03 | 2.18E-02 | 7.91E-03 | 3.39E-02 | 4.26E-02 | 2.70E-07                         | 1.84E-02          | 3.14E-03         | 2.63E-04          | 0.00E+00                |
| Wyoming     | Natrona County       | 56025 | U                    | 5.01E-03                                                                | 6.47E-03 | 8.05E-03 | 4.17E-02 | 5.07E-02 | 5.73E-02 | 8.36E-02 | 9.08E-02 | 1.43E-08                         | 3.76E-03          | 3.71E-02         | 9.86E-03          | 0.00E+00                |
| Wyoming     | Niobrara County      | 56027 | R                    | 1.31E-03                                                                | 1.31E-03 | 1.31E-03 | 1.32E-03 | 1.32E-03 | 1.32E-03 | 1.33E-03 | 1.33E-03 | 0.00E+00                         | 4.87E-04          | 8.05E-04         | 2.84E-05          | 0.00E+00                |
| Wyoming     | Park County          | 56029 | U                    | 7.77E-03                                                                | 1.18E-02 | 1.76E-02 | 3.38E-02 | 6.98E-02 | 7.57E-02 | 1.28E-01 | 1.52E-01 | 3.71E-10                         | 4.70E-02          | 1.56E-02         | 7.19E-03          | 0.00E+00                |
| Wyoming     | Platte County        | 56031 | R                    | 1.29E-03                                                                | 1.35E-03 | 1.51E-03 | 2.07E-03 | 3.96E-03 | 3.24E-03 | 4.51E-03 | 4.93E-03 | 3.51E-14                         | 1.14E-03          | 2.70E-03         | 1.16E-04          | 0.00E+00                |
| Wyoming     | Sheridan County      | 56033 | U                    | 6.68E-03                                                                | 7.76E-03 | 1.17E-02 | 2.88E-02 | 4.39E-02 | 6.29E-02 | 7.71E-02 | 8.03E-02 | 0.00E+00                         | 1.30E-02          | 2.16E-02         | 9.28E-03          | 0.00E+00                |
| Wyoming     | Sublette County      | 56035 | R                    | 8.04E-03                                                                | 8.39E-03 | 9.43E-03 | 1.12E-02 | 1.04E-02 | 1.29E-02 | 1.40E-02 | 1.43E-02 | 0.00E+00                         | 9.10E-03          | 8.58E-04         | 4.00E-04          | 0.00E+00                |
| Wyoming     | Sweetwater County    | 56037 | U                    | 8.56E-04                                                                | 1.50E-03 | 2.64E-03 | 1.35E-02 | 1.76E-02 | 1.83E-02 | 2.83E-02 | 2.85E-02 | 1.84E-03                         | 2.08E-03          | 9.78E-03         | 3.86E-03          | 0.00E+00                |
| Wyoming     | Teton County         | 56039 | R                    | 3.58E-02                                                                | 4.95E-02 | 9.05E-02 | 1.59E-01 | 1.26E-01 | 1.59E-01 | 1.59E-01 | 1.59E-01 | 0.00E+00                         | 1.12E-01          | 9.06E-03         | 5.04E-03          | 0.00E+00                |
| Wyoming     | Uinta County         | 56041 | U                    | 8.51E-03                                                                | 8.52E-03 | 8.52E-03 | 1.23E-02 | 1.10E-02 | 1.61E-02 | 1.63E-02 | 1.63E-02 | 5.10E-05                         | 5.70E-03          | 4.76E-03         | 4.76E-04          | 0.00E+00                |
| Wyoming     | Washakie County      | 56043 | U                    | 2.88E-03                                                                | 4.33E-03 | 8.68E-03 | 1.59E-02 | 1.48E-02 | 1.60E-02 | 1.61E-02 | 1.61E-02 | 0.00E+00                         | 8.41E-04          | 1.16E-02         | 2.38E-03          | 0.00E+00                |
| Wyoming     | Weston County        | 56045 | R                    | 2.50E-03                                                                | 2.87E-03 | 3.99E-03 | 5.85E-03 | 2.65E-02 | 2.49E-02 | 3.64E-02 | 4.02E-02 | 0.00E+00                         | 2.36E-02          | 2.86E-03         | 7.62E-05          | 0.00E+00                |
| Puerto Rico | Statewide            | 72000 | -                    | 1.31E-02                                                                | 1.56E-02 | 2.30E-02 | 4.52E-02 | 6.29E-02 | 1.01E-01 | 1.55E-01 | 1.82E-01 | 0.00E+00                         | 4.11E-03          | 3.22E-02         | 2.66E-02          | 0.00E+00                |
| Puerto Rico | State Urban Counties | 72000 | U                    | 1.33E-02                                                                | 1.57E-02 | 2.50E-02 | 5.56E-02 | 6.90E-02 | 1.17E-01 | 1.63E-01 | 1.89E-01 | 0.00E+00                         | 4.43E-03          | 3.51E-02         | 2.95E-02          | 0.00E+00                |
| Puerto Rico | State Rural Counties | 72000 | R                    | 1.08E-02                                                                | 1.42E-02 | 2.02E-02 | 2.48E-02 | 2.89E-02 | 3.56E-02 | 4.61E-02 | 5.40E-02 | 0.00E+00                         | 2.37E-03          | 1.60E-02         | 1.05E-02          | 0.00E+00                |
| Puerto Rico | Adjuntas Municipio   | 72001 | R                    | 1.37E-02                                                                | 1.39E-02 | 1.46E-02 | 1.84E-02 | 1.89E-02 | 2.27E-02 | 2.55E-02 | 2.67E-02 | 0.00E+00                         | 1.54E-03          | 1.05E-02         | 6.85E-03          | 0.00E+00                |

| State       | County                | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|-------------|-----------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|             |                       |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|             |                       |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Puerto Rico | Aguada Municipio      | 72003 | U                    | 2.00E-02                                                                | 2.01E-02 | 2.04E-02 | 2.36E-02 | 2.50E-02 | 2.75E-02 | 3.14E-02 | 3.31E-02 | 0.00E+00                         | 2.12E-03          | 1.28E-02         | 1.00E-02          | 0.00E+00                |
| Puerto Rico | Aguadilla Municipio   | 72005 | U                    | 2.19E-02                                                                | 2.23E-02 | 2.44E-02 | 2.68E-02 | 3.75E-02 | 5.86E-02 | 7.23E-02 | 8.32E-02 | 0.00E+00                         | 2.54E-03          | 1.99E-02         | 1.50E-02          | 0.00E+00                |
| Puerto Rico | Aguas Buenas Municipi | 72007 | U                    | 2.67E-02                                                                | 2.68E-02 | 2.69E-02 | 2.73E-02 | 3.11E-02 | 2.78E-02 | 4.33E-02 | 4.84E-02 | 0.00E+00                         | 2.66E-03          | 1.52E-02         | 1.32E-02          | 0.00E+00                |
| Puerto Rico | Aibonito Municipio    | 72009 | R                    | 3.27E-02                                                                | 3.40E-02 | 3.72E-02 | 4.68E-02 | 4.99E-02 | 6.85E-02 | 7.38E-02 | 7.43E-02 | 0.00E+00                         | 4.40E-03          | 2.59E-02         | 1.95E-02          | 0.00E+00                |
| Puerto Rico | Anasco Municipio      | 72011 | U                    | 5.45E-03                                                                | 1.09E-02 | 1.58E-02 | 1.65E-02 | 3.77E-02 | 2.69E-02 | 5.67E-02 | 5.83E-02 | 0.00E+00                         | 1.55E-03          | 1.17E-02         | 1.05E-02          | 0.00E+00                |
| Puerto Rico | Arecibo Municipio     | 72013 | U                    | 1.08E-02                                                                | 1.10E-02 | 1.30E-02 | 1.68E-02 | 2.48E-02 | 3.40E-02 | 4.46E-02 | 5.71E-02 | 0.00E+00                         | 1.30E-03          | 1.33E-02         | 1.03E-02          | 0.00E+00                |
| Puerto Rico | Arroyo Municipio      | 72015 | R                    | 3.87E-02                                                                | 3.87E-02 | 3.88E-02 | 3.90E-02 | 3.90E-02 | 3.92E-02 | 3.93E-02 | 3.94E-02 | 0.00E+00                         | 3.46E-03          | 2.02E-02         | 1.53E-02          | 0.00E+00                |
| Puerto Rico | Barceloneta Municipi  | 72017 | U                    | 1.58E-02                                                                | 1.63E-02 | 1.79E-02 | 2.54E-02 | 2.61E-02 | 3.37E-02 | 3.67E-02 | 3.77E-02 | 0.00E+00                         | 2.01E-03          | 1.34E-02         | 1.07E-02          | 0.00E+00                |
| Puerto Rico | Barranquitas Municipi | 72019 | R                    | 3.64E-02                                                                | 3.65E-02 | 3.67E-02 | 3.82E-02 | 3.88E-02 | 3.98E-02 | 4.04E-02 | 4.06E-02 | 0.00E+00                         | 3.56E-03          | 1.94E-02         | 1.58E-02          | 0.00E+00                |
| Puerto Rico | Bayamon Municipio     | 72021 | U                    | 5.39E-02                                                                | 6.28E-02 | 9.96E-02 | 1.24E-01 | 1.16E-01 | 1.41E-01 | 1.55E-01 | 1.78E-01 | 0.00E+00                         | 7.86E-03          | 6.18E-02         | 4.62E-02          | 0.00E+00                |
| Puerto Rico | Cabo Rojo Municipio   | 72023 | U                    | 1.23E-02                                                                | 1.37E-02 | 1.66E-02 | 1.77E-02 | 2.09E-02 | 2.95E-02 | 3.47E-02 | 3.54E-02 | 0.00E+00                         | 1.45E-03          | 1.09E-02         | 8.51E-03          | 0.00E+00                |
| Puerto Rico | Caguas Municipio      | 72025 | U                    | 2.94E-02                                                                | 3.29E-02 | 3.87E-02 | 7.30E-02 | 6.44E-02 | 9.06E-02 | 1.11E-01 | 1.18E-01 | 0.00E+00                         | 3.72E-03          | 3.42E-02         | 2.65E-02          | 0.00E+00                |
| Puerto Rico | Camuy Municipio       | 72027 | U                    | 1.13E-02                                                                | 1.15E-02 | 1.28E-02 | 1.57E-02 | 1.55E-02 | 1.59E-02 | 2.05E-02 | 2.28E-02 | 0.00E+00                         | 1.15E-03          | 7.93E-03         | 6.41E-03          | 0.00E+00                |
| Puerto Rico | Canovanas Municipio   | 72029 | U                    | 1.69E-02                                                                | 1.89E-02 | 2.27E-02 | 2.47E-02 | 2.72E-02 | 2.82E-02 | 3.49E-02 | 3.87E-02 | 0.00E+00                         | 2.10E-03          | 1.40E-02         | 1.11E-02          | 0.00E+00                |
| Puerto Rico | Carolina Municipio    | 72031 | U                    | 4.20E-02                                                                | 4.39E-02 | 8.24E-02 | 1.10E-01 | 1.13E-01 | 1.25E-01 | 1.58E-01 | 1.96E-01 | 0.00E+00                         | 5.40E-03          | 4.78E-02         | 5.93E-02          | 0.00E+00                |
| Puerto Rico | Catano Municipio      | 72033 | U                    | 7.76E-02                                                                | 7.91E-02 | 8.46E-02 | 9.19E-02 | 9.92E-02 | 1.16E-01 | 1.31E-01 | 1.42E-01 | 0.00E+00                         | 7.64E-03          | 5.15E-02         | 4.01E-02          | 0.00E+00                |
| Puerto Rico | Cayey Municipio       | 72035 | U                    | 1.95E-02                                                                | 2.12E-02 | 2.22E-02 | 4.43E-02 | 3.94E-02 | 5.73E-02 | 6.97E-02 | 7.61E-02 | 0.00E+00                         | 2.11E-03          | 1.93E-02         | 1.80E-02          | 0.00E+00                |
| Puerto Rico | Ceiba Municipio       | 72037 | U                    | 1.05E-02                                                                | 1.17E-02 | 1.53E-02 | 2.13E-02 | 1.86E-02 | 2.15E-02 | 2.15E-02 | 2.16E-02 | 0.00E+00                         | 1.88E-03          | 9.45E-03         | 7.27E-03          | 0.00E+00                |
| Puerto Rico | Ciales Municipio      | 72039 | R                    | 1.51E-02                                                                | 1.53E-02 | 1.60E-02 | 1.94E-02 | 1.95E-02 | 2.30E-02 | 2.41E-02 | 2.45E-02 | 0.00E+00                         | 1.62E-03          | 1.06E-02         | 7.23E-03          | 0.00E+00                |
| Puerto Rico | Cidra Municipio       | 72041 | U                    | 2.72E-02                                                                | 2.74E-02 | 2.82E-02 | 2.93E-02 | 3.32E-02 | 4.29E-02 | 4.99E-02 | 5.11E-02 | 0.00E+00                         | 2.86E-03          | 1.68E-02         | 1.36E-02          | 0.00E+00                |
| Puerto Rico | Coama Municipio       | 72043 | R                    | 2.23E-02                                                                | 2.27E-02 | 2.38E-02 | 2.48E-02 | 3.20E-02 | 4.00E-02 | 4.56E-02 | 5.05E-02 | 0.00E+00                         | 2.11E-03          | 2.05E-02         | 9.41E-03          | 0.00E+00                |
| Puerto Rico | Comerio Municipio     | 72045 | U                    | 2.14E-02                                                                | 2.19E-02 | 2.35E-02 | 3.40E-02 | 3.46E-02 | 4.88E-02 | 4.93E-02 | 4.95E-02 | 0.00E+00                         | 3.02E-03          | 1.65E-02         | 1.51E-02          | 0.00E+00                |
| Puerto Rico | Corozal Municipio     | 72047 | U                    | 2.25E-02                                                                | 2.37E-02 | 2.64E-02 | 2.75E-02 | 3.06E-02 | 3.18E-02 | 4.01E-02 | 4.36E-02 | 0.00E+00                         | 2.50E-03          | 1.50E-02         | 1.31E-02          | 0.00E+00                |
| Puerto Rico | Culebra Municipio     | 72049 | R                    | 4.90E-03                                                                | 4.90E-03 | 4.90E-03 | 4.90E-03 | 4.90E-03 | 4.90E-03 | 4.90E-03 | 4.90E-03 | 0.00E+00                         | 4.38E-04          | 2.46E-03         | 2.00E-03          | 0.00E+00                |
| Puerto Rico | Dorado Municipio      | 72051 | U                    | 1.88E-02                                                                | 1.94E-02 | 2.47E-02 | 3.22E-02 | 2.99E-02 | 3.34E-02 | 3.62E-02 | 3.80E-02 | 0.00E+00                         | 2.50E-03          | 1.50E-02         | 1.24E-02          | 0.00E+00                |
| Puerto Rico | Fajardo Municipio     | 72053 | U                    | 1.21E-02                                                                | 1.25E-02 | 1.34E-02 | 2.42E-02 | 2.72E-02 | 3.80E-02 | 4.23E-02 | 4.39E-02 | 0.00E+00                         | 1.47E-03          | 1.50E-02         | 1.08E-02          | 0.00E+00                |
| Puerto Rico | Florida Municipio     | 72054 | U                    | 1.64E-02                                                                | 1.67E-02 | 1.77E-02 | 1.93E-02 | 1.99E-02 | 2.10E-02 | 2.20E-02 | 2.23E-02 | 0.00E+00                         | 1.89E-03          | 9.73E-03         | 8.24E-03          | 0.00E+00                |
| Puerto Rico | Guanica Municipio     | 72055 | R                    | 2.05E-02                                                                | 2.07E-02 | 2.13E-02 | 2.27E-02 | 2.85E-02 | 3.18E-02 | 4.50E-02 | 5.46E-02 | 0.00E+00                         | 1.96E-03          | 1.76E-02         | 8.94E-03          | 0.00E+00                |
| Puerto Rico | Guayama Municipio     | 72057 | U                    | 1.51E-02                                                                | 1.53E-02 | 1.97E-02 | 2.97E-02 | 3.81E-02 | 5.03E-02 | 7.68E-02 | 9.77E-02 | 0.00E+00                         | 1.78E-03          | 1.95E-02         | 1.68E-02          | 0.00E+00                |
| Puerto Rico | Guayanilla Municipio  | 72059 | U                    | 1.21E-02                                                                | 1.24E-02 | 1.34E-02 | 1.43E-02 | 2.24E-02 | 2.45E-02 | 4.19E-02 | 4.77E-02 | 0.00E+00                         | 1.53E-03          | 1.13E-02         | 9.61E-03          | 0.00E+00                |
| Puerto Rico | Guaynabo Municipio    | 72061 | U                    | 4.22E-02                                                                | 5.32E-02 | 6.75E-02 | 1.07E-01 | 1.04E-01 | 1.26E-01 | 1.65E-01 | 1.78E-01 | 0.00E+00                         | 7.14E-03          | 5.45E-02         | 4.24E-02          | 0.00E+00                |
| Puerto Rico | Gurabo Municipio      | 72063 | U                    | 2.41E-02                                                                | 2.46E-02 | 2.62E-02 | 2.87E-02 | 3.99E-02 | 7.50E-02 | 8.49E-02 | 8.82E-02 | 0.00E+00                         | 2.83E-03          | 2.02E-02         | 1.69E-02          | 0.00E+00                |
| Puerto Rico | Hatillo Municipio     | 72065 | U                    | 1.37E-02                                                                | 1.38E-02 | 1.45E-02 | 1.59E-02 | 1.76E-02 | 1.71E-02 | 2.28E-02 | 2.54E-02 | 0.00E+00                         | 1.31E-03          | 9.02E-03         | 7.22E-03          | 0.00E+00                |
| Puerto Rico | Hormigueros Municipi  | 72067 | U                    | 1.67E-02                                                                | 1.76E-02 | 2.03E-02 | 2.92E-02 | 3.21E-02 | 4.66E-02 | 5.55E-02 | 5.85E-02 | 0.00E+00                         | 2.05E-03          | 1.69E-02         | 1.31E-02          | 0.00E+00                |
| Puerto Rico | Humacao Municipio     | 72069 | U                    | 1.62E-02                                                                | 1.64E-02 | 1.66E-02 | 1.74E-02 | 2.67E-02 | 3.17E-02 | 4.94E-02 | 5.27E-02 | 0.00E+00                         | 1.84E-03          | 1.42E-02         | 1.07E-02          | 0.00E+00                |
| Puerto Rico | Isabela Municipio     | 72071 | R                    | 2.27E-02                                                                | 2.34E-02 | 2.50E-02 | 2.63E-02 | 2.82E-02 | 2.84E-02 | 3.57E-02 | 4.06E-02 | 0.00E+00                         | 2.35E-03          | 1.55E-02         | 1.03E-02          | 0.00E+00                |
| Puerto Rico | Jayuya Municipio      | 72073 | R                    | 1.73E-02                                                                | 1.75E-02 | 1.78E-02 | 1.84E-02 | 2.56E-02 | 3.20E-02 | 4.02E-02 | 4.29E-02 | 0.00E+00                         | 2.08E-03          | 1.42E-02         | 9.24E-03          | 0.00E+00                |
| Puerto Rico | Juana Diaz Municipio  | 72075 | U                    | 1.54E-02                                                                | 1.58E-02 | 1.68E-02 | 1.82E-02 | 2.32E-02 | 3.62E-02 | 5.62E-02 | 5.77E-02 | 0.00E+00                         | 1.59E-03          | 1.19E-02         | 9.71E-03          | 0.00E+00                |
| Puerto Rico | Juncos Municipio      | 72077 | U                    | 2.38E-02                                                                | 2.41E-02 | 2.49E-02 | 2.60E-02 | 3.02E-02 | 3.18E-02 | 4.12E-02 | 4.44E-02 | 0.00E+00                         | 2.51E-03          | 1.55E-02         | 1.22E-02          | 0.00E+00                |
| Puerto Rico | Lajas Municipio       | 72079 | R                    | 1.74E-02                                                                | 1.74E-02 | 1.75E-02 | 1.77E-02 | 1.96E-02 | 2.02E-02 | 2.43E-02 | 2.57E-02 | 0.00E+00                         | 1.54E-03          | 1.11E-02         | 6.97E-03          | 0.00E+00                |
| Puerto Rico | Lares Municipio       | 72081 | R                    | 2.02E-02                                                                | 2.04E-02 | 2.06E-02 | 2.29E-02 | 2.53E-02 | 2.53E-02 | 3.49E-02 | 4.13E-02 | 0.00E+00                         | 2.04E-03          | 1.42E-02         | 8.98E-03          | 0.00E+00                |
| Puerto Rico | Las Marias Municipio  | 72083 | R                    | 1.32E-02                                                                | 1.33E-02 | 1.35E-02 | 1.38E-02 | 1.36E-02 | 1.40E-02 | 1.41E-02 | 1.42E-02 | 0.00E+00                         | 1.25E-03          | 6.71E-03         | 5.68E-03          | 0.00E+00                |
| Puerto Rico | Las Piedras Municipi  | 72085 | U                    | 1.48E-02                                                                | 1.54E-02 | 1.71E-02 | 2.01E-02 | 2.52E-02 | 3.31E-02 | 4.09E-02 | 4.35E-02 | 0.00E+00                         | 1.92E-03          | 1.29E-02         | 1.04E-02          | 0.00E+00                |
| Puerto Rico | Loiza Municipio       | 72087 | U                    | 4.28E-03                                                                | 8.57E-03 | 1.90E-02 | 3.15E-02 | 3.36E-02 | 4.19E-02 | 6.88E-02 | 8.31E-02 | 0.00E+00                         | 1.80E-03          | 1.88E-02         | 1.30E-02          | 0.00E+00                |
| Puerto Rico | Luquillo Municipio    | 72089 | U                    | 1.00E-02                                                                | 1.02E-02 | 1.06E-02 | 1.12E-02 | 1.75E-02 | 1.91E-02 | 2.39E-02 | 2.55E-02 | 0.00E+00                         | 9.49E-04          | 9.09E-03         | 7.42E-03          | 0.00E+00                |
| Puerto Rico | Manati Municipio      | 72091 | U                    | 1.54E-02                                                                | 1.55E-02 | 1.67E-02 | 2.70E-02 | 3.59E-02 | 6.22E-02 | 6.59E-02 | 6.89E-02 | 0.00E+00                         | 1.82E-03          | 1.83E-02         | 1.58E-02          | 0.00E+00                |
| Puerto Rico | Maricao Municipio     | 72093 | R                    | 1.07E-02                                                                | 1.07E-02 | 1.08E-02 | 1.08E-02 | 1.08E-02 | 1.08E-02 | 1.09E-02 | 1.09E-02 | 0.00E+00                         | 9.96E-04          | 5.28E-03         | 4.55E-03          | 0.00E+00                |
| Puerto Rico | Maunabo Municipio     | 72095 | R                    | 2.31E-02                                                                | 2.36E-02 | 2.48E-02 | 2.70E-02 | 3.07E-02 | 3.90E-02 | 4.63E-02 | 4.87E-02 | 0.00E+00                         | 2.42E-03          | 1.76E-02         | 1.08E-02          | 0.00E+00                |
| Puerto Rico | Mayaguez Municipio    | 72097 | U                    | 1.88E-02                                                                | 2.15E-02 | 2.49E-02 | 3.41E-02 | 4.17E-02 | 5.87E-02 | 7.85E-02 | 9.67E-02 | 0.00E+00                         | 1.95E-03          | 2.29E-02         | 1.69E-02          | 0.00E+00                |
| Puerto Rico | Moca Municipio        | 72099 | R                    | 2.58E-02                                                                | 2.67E-02 | 2.93E-02 | 3.35E-02 | 3.41E-02 | 3.67E-02 | 4.12E-02 | 4.28E-02 | 0.00E+00                         | 3.08E-03          | 1.74E-02         | 1.36E-02          | 0.00E+00                |
| Puerto Rico | Morovis Municipio     | 72101 | U                    | 1.98E-02                                                                | 2.01E-02 | 2.12E-02 | 2.26E-02 | 2.70E-02 | 3.58E-02 | 5.82E-02 | 6.57E-02 | 0.00E+00                         | 2.16E-03          | 1.35E-02         | 1.14E-02          | 0.00E+00                |
| Puerto Rico | Naguabo Municipio     | 72103 | U                    | 8.65E-03                                                                | 8.82E-03 | 9.34E-03 | 9.89E-03 | 9.62E-03 | 1.03E-02 | 1.05E-02 | 1.05E-02 | 0.00E+00                         | 8.41E-04          | 4.91E-03         | 3.87E-03          | 0.00E+00                |

| State          | County                 | FIPS  | Urban<br>or<br>Rural | Estimated Annual Exposure Concentrations (ug/m3) for 1,3-Butadiene      |          |          |          |          |          |          |          |                                  |                   |                  |                   |                         |
|----------------|------------------------|-------|----------------------|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------------|-------------------|------------------|-------------------|-------------------------|
|                |                        |       |                      | Percentile Distribution of Exposure Concentrations Across Census Tracts |          |          |          |          |          |          |          | Contribution to Average from ... |                   |                  |                   |                         |
|                |                        |       |                      | 5th                                                                     | 10th     | 25th     | Median   | Average  | 75th     | 90th     | 95th     | Major                            | Area and<br>Other | Onroad<br>Mobile | Nonroad<br>Mobile | Estimated<br>Background |
| Puerto Rico    | Naranjito Municipio    | 72105 | U                    | 2.83E-02                                                                | 2.88E-02 | 3.03E-02 | 3.11E-02 | 3.33E-02 | 3.52E-02 | 4.43E-02 | 4.73E-02 | 0.00E+00                         | 3.08E-03          | 1.61E-02         | 1.41E-02          | 0.00E+00                |
| Puerto Rico    | Orocovis Municipio     | 72107 | R                    | 2.10E-02                                                                | 2.15E-02 | 2.29E-02 | 2.66E-02 | 2.78E-02 | 3.32E-02 | 3.98E-02 | 4.19E-02 | 0.00E+00                         | 2.41E-03          | 1.46E-02         | 1.08E-02          | 0.00E+00                |
| Puerto Rico    | Patillas Municipio     | 72109 | R                    | 1.85E-02                                                                | 1.87E-02 | 1.93E-02 | 2.06E-02 | 2.05E-02 | 2.16E-02 | 2.17E-02 | 2.17E-02 | 0.00E+00                         | 1.76E-03          | 1.08E-02         | 7.89E-03          | 0.00E+00                |
| Puerto Rico    | Penuelas Municipio     | 72111 | U                    | 1.32E-02                                                                | 1.34E-02 | 1.40E-02 | 1.53E-02 | 1.79E-02 | 1.76E-02 | 2.69E-02 | 3.12E-02 | 0.00E+00                         | 1.49E-03          | 8.79E-03         | 7.60E-03          | 0.00E+00                |
| Puerto Rico    | Ponce Municipio        | 72113 | U                    | 2.07E-02                                                                | 2.53E-02 | 3.14E-02 | 5.87E-02 | 6.38E-02 | 8.54E-02 | 1.11E-01 | 1.32E-01 | 0.00E+00                         | 2.79E-03          | 3.45E-02         | 2.65E-02          | 0.00E+00                |
| Puerto Rico    | Quebradillas Municipi  | 72115 | R                    | 2.62E-02                                                                | 2.77E-02 | 3.23E-02 | 3.89E-02 | 3.61E-02 | 4.34E-02 | 4.42E-02 | 4.44E-02 | 0.00E+00                         | 3.14E-03          | 1.90E-02         | 1.39E-02          | 0.00E+00                |
| Puerto Rico    | Rincon Municipio       | 72117 | R                    | 2.62E-02                                                                | 2.64E-02 | 2.68E-02 | 2.75E-02 | 3.19E-02 | 3.81E-02 | 4.45E-02 | 4.66E-02 | 0.00E+00                         | 2.91E-03          | 1.61E-02         | 1.28E-02          | 0.00E+00                |
| Puerto Rico    | Rio Grande Municipio   | 72119 | U                    | 3.68E-03                                                                | 7.37E-03 | 1.14E-02 | 1.31E-02 | 2.35E-02 | 1.51E-02 | 3.63E-02 | 5.69E-02 | 0.00E+00                         | 1.17E-03          | 1.18E-02         | 1.05E-02          | 0.00E+00                |
| Puerto Rico    | Sabana Grande Municipi | 72121 | U                    | 1.26E-02                                                                | 1.28E-02 | 1.36E-02 | 1.99E-02 | 2.53E-02 | 4.23E-02 | 5.51E-02 | 5.87E-02 | 0.00E+00                         | 1.54E-03          | 1.27E-02         | 1.10E-02          | 0.00E+00                |
| Puerto Rico    | Salinas Municipio      | 72123 | R                    | 1.96E-02                                                                | 1.97E-02 | 2.00E-02 | 2.18E-02 | 2.82E-02 | 3.57E-02 | 4.88E-02 | 5.04E-02 | 0.00E+00                         | 2.07E-03          | 1.70E-02         | 9.18E-03          | 0.00E+00                |
| Puerto Rico    | San German Municipio   | 72125 | U                    | 1.27E-02                                                                | 1.35E-02 | 1.45E-02 | 1.58E-02 | 1.78E-02 | 2.00E-02 | 2.47E-02 | 2.57E-02 | 0.00E+00                         | 1.32E-03          | 9.02E-03         | 7.47E-03          | 0.00E+00                |
| Puerto Rico    | San Juan Municipio     | 72127 | U                    | 5.89E-02                                                                | 6.92E-02 | 1.01E-01 | 1.53E-01 | 1.57E-01 | 1.78E-01 | 2.38E-01 | 2.51E-01 | 0.00E+00                         | 1.07E-02          | 7.87E-02         | 6.73E-02          | 0.00E+00                |
| Puerto Rico    | San Lorenzo Municipi   | 72129 | U                    | 1.75E-02                                                                | 1.78E-02 | 1.88E-02 | 1.98E-02 | 2.51E-02 | 3.65E-02 | 5.45E-02 | 5.57E-02 | 0.00E+00                         | 1.85E-03          | 1.24E-02         | 1.08E-02          | 0.00E+00                |
| Puerto Rico    | San Sebastian Munci    | 72131 | R                    | 2.01E-02                                                                | 2.48E-02 | 2.69E-02 | 2.96E-02 | 3.46E-02 | 3.42E-02 | 5.77E-02 | 6.04E-02 | 0.00E+00                         | 2.78E-03          | 1.96E-02         | 1.23E-02          | 0.00E+00                |
| Puerto Rico    | Santa Isabel Municipi  | 72133 | R                    | 6.36E-03                                                                | 1.27E-02 | 2.12E-02 | 2.33E-02 | 3.04E-02 | 2.98E-02 | 3.86E-02 | 4.40E-02 | 0.00E+00                         | 2.37E-03          | 1.75E-02         | 1.05E-02          | 0.00E+00                |
| Puerto Rico    | Toa Alta Municipio     | 72135 | U                    | 4.02E-02                                                                | 4.23E-02 | 4.52E-02 | 4.78E-02 | 5.66E-02 | 6.91E-02 | 7.58E-02 | 7.87E-02 | 0.00E+00                         | 4.18E-03          | 2.92E-02         | 2.33E-02          | 0.00E+00                |
| Puerto Rico    | Toa Baja Municipio     | 72137 | U                    | 3.30E-02                                                                | 4.06E-02 | 5.29E-02 | 7.97E-02 | 9.32E-02 | 1.12E-01 | 1.20E-01 | 1.36E-01 | 0.00E+00                         | 6.28E-03          | 5.07E-02         | 3.63E-02          | 0.00E+00                |
| Puerto Rico    | Trujillo Alto Munci    | 72139 | U                    | 3.97E-02                                                                | 4.15E-02 | 5.29E-02 | 8.90E-02 | 8.39E-02 | 1.19E-01 | 1.43E-01 | 1.53E-01 | 0.00E+00                         | 5.21E-03          | 4.47E-02         | 3.39E-02          | 0.00E+00                |
| Puerto Rico    | Utua Municipio         | 72141 | R                    | 1.40E-02                                                                | 1.41E-02 | 1.42E-02 | 1.95E-02 | 2.17E-02 | 2.76E-02 | 3.39E-02 | 3.43E-02 | 0.00E+00                         | 1.59E-03          | 1.31E-02         | 7.02E-03          | 0.00E+00                |
| Puerto Rico    | Vega Alta Municipio    | 72143 | U                    | 1.89E-02                                                                | 2.13E-02 | 2.65E-02 | 2.88E-02 | 3.46E-02 | 4.14E-02 | 5.25E-02 | 5.61E-02 | 0.00E+00                         | 2.49E-03          | 1.77E-02         | 1.44E-02          | 0.00E+00                |
| Puerto Rico    | Vega Baja Municipio    | 72145 | U                    | 1.83E-02                                                                | 1.88E-02 | 2.16E-02 | 2.44E-02 | 2.51E-02 | 2.59E-02 | 3.25E-02 | 4.42E-02 | 0.00E+00                         | 1.99E-03          | 1.28E-02         | 1.03E-02          | 0.00E+00                |
| Puerto Rico    | Vieques Municipio      | 72147 | R                    | 3.28E-03                                                                | 3.54E-03 | 4.34E-03 | 6.44E-03 | 8.63E-03 | 8.70E-03 | 9.76E-03 | 1.01E-02 | 0.00E+00                         | 4.55E-04          | 6.20E-03         | 1.97E-03          | 0.00E+00                |
| Puerto Rico    | Villalba Municipio     | 72149 | U                    | 1.65E-02                                                                | 1.69E-02 | 1.81E-02 | 1.99E-02 | 2.25E-02 | 2.88E-02 | 4.25E-02 | 4.71E-02 | 0.00E+00                         | 1.80E-03          | 1.10E-02         | 9.68E-03          | 0.00E+00                |
| Puerto Rico    | Yabucoa Municipio      | 72151 | U                    | 1.25E-02                                                                | 1.34E-02 | 1.46E-02 | 1.53E-02 | 2.03E-02 | 2.53E-02 | 4.55E-02 | 4.82E-02 | 0.00E+00                         | 1.50E-03          | 1.01E-02         | 8.66E-03          | 0.00E+00                |
| Puerto Rico    | Yauco Municipio        | 72153 | U                    | 4.00E-03                                                                | 8.00E-03 | 1.34E-02 | 1.56E-02 | 2.18E-02 | 2.71E-02 | 3.24E-02 | 3.39E-02 | 0.00E+00                         | 1.28E-03          | 1.09E-02         | 9.70E-03          | 0.00E+00                |
| Virgin Islands | Statewide              | 78000 | -                    | 8.36E-03                                                                | 1.10E-02 | 1.58E-02 | 2.19E-02 | 2.98E-02 | 3.67E-02 | 5.45E-02 | 6.62E-02 | 6.02E-04                         | 7.72E-06          | 1.63E-02         | 1.28E-02          | 0.00E+00                |
| Virgin Islands | State Urban Counties   | 78000 | U                    | 1.07E-02                                                                | 1.11E-02 | 1.47E-02 | 3.15E-02 | 3.76E-02 | 5.18E-02 | 6.73E-02 | 6.97E-02 | 0.00E+00                         | 1.00E-05          | 2.02E-02         | 1.74E-02          | 0.00E+00                |
| Virgin Islands | State Rural Counties   | 78000 | R                    | 5.34E-03                                                                | 1.15E-02 | 1.80E-02 | 2.04E-02 | 2.28E-02 | 2.62E-02 | 3.15E-02 | 3.68E-02 | 1.14E-03                         | 5.67E-06          | 1.29E-02         | 8.75E-03          | 0.00E+00                |
| Virgin Islands | St. Croix              | 78010 | R                    | 1.44E-02                                                                | 1.62E-02 | 1.86E-02 | 2.13E-02 | 2.40E-02 | 2.65E-02 | 3.30E-02 | 3.68E-02 | 1.22E-03                         | 5.96E-06          | 1.35E-02         | 9.24E-03          | 0.00E+00                |
| Virgin Islands | St. John               | 78020 | R                    | 3.55E-03                                                                | 3.66E-03 | 4.00E-03 | 4.56E-03 | 5.01E-03 | 5.12E-03 | 5.45E-03 | 5.56E-03 | 0.00E+00                         | 1.52E-06          | 3.36E-03         | 1.65E-03          | 0.00E+00                |
| Virgin Islands | St. Thomas             | 78030 | U                    | 1.07E-02                                                                | 1.11E-02 | 1.47E-02 | 3.15E-02 | 3.76E-02 | 5.18E-02 | 6.73E-02 | 6.97E-02 | 0.00E+00                         | 1.00E-05          | 2.02E-02         | 1.74E-02          | 0.00E+00                |