

**The State of Wisconsin's 2015 Transportation Conformity
Budgets for the Kenosha and Sheboygan County
2008 8-Hour Ozone Nonattainment Areas**

A CAA-Required State Implementation Plan addressing the 2008 8-Hour Ozone
National Ambient Air Quality Standard

Prepared by the Wisconsin Department of Natural Resources

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Executive Summary

This document provides Wisconsin's 2015 transportation conformity budget forecasts as required for the Attainment State Implementation Plan (SIP) for the 2008 8-hour ozone National Ambient Air Quality Standard (NAAQS). The U.S. Environmental Protection Agency (EPA) requirements outlined in CFR 93.118(e) (4) stipulate that mobile source emission budgets for direct oxides of nitrogen (NO_x) and volatile organic compounds (VOCs) be established as part of the 2008 8-hour ozone Attainment SIP. The motor vehicle emissions budgets are necessary to demonstrate that transportation plans and transportation improvement programs conform to the SIP. This document also includes 2011 base year inventories to demonstrate progress towards attaining the 2008 8-hour ozone NAAQS.

In the State of Wisconsin, there are only two ozone nonattainment areas: the whole of Sheboygan County and the eastern portion of Kenosha County. Effective July 20, 2012, EPA designated both of these areas as marginal nonattainment for the 2008 8-hour ozone NAAQS. The partial Kenosha County nonattainment area is essentially east of I-94, including the Village of Pleasant Prairie, the Town of Somers, and the City of Kenosha. As a marginal nonattainment area, the attainment date for the 2008 8-hour ozone NAAQS is December 31, 2015. This plan establishes a 2011 baseline emissions inventory for the whole of Sheboygan County and the eastern portion of Kenosha County for ozone precursors – NO_x and VOCs – and projects the emissions for these pollutants to the attainment year of 2015. This plan also establishes a motor vehicle emission budget for the proposed adjustment of the Sheboygan County nonattainment boundary. On June 27, 2013, the Wisconsin Department of Natural Resources (WDNR) asked EPA Region 5 to adjust the Sheboygan County nonattainment boundary to a narrow strip of land adjacent to Lake Michigan. WDNR supplemented this boundary refinement request with technical information on January 22, 2014. For these three areas, this plan demonstrates that emissions are decreasing over the 2011-2015 time period as a result of permanent and enforceable federal and state control requirements. Lastly, this plan establishes motor vehicle emissions budgets for NO_x and VOCs for the whole of Sheboygan County, the eastern portion of Kenosha County and the proposed adjusted Sheboygan nonattainment area. The new motor vehicle emissions budgets are summarized in the chart below:

2015 Motor Vehicle Emissions Budgets for Wisconsin's Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	4.40	1.99
Sheboygan County	4.44	1.97
Proposed Adjustment to Sheboygan County	2.89	1.19

The new motor vehicle emissions budgets established in this plan are intended to be used in regional transportation conformity determinations with the 2008 ozone NAAQS. Although the Sheboygan nonattainment area has approved motor vehicle emissions budgets that have been used under the previous ozone standard, new budgets are needed due to EPA's transition from an older on-road mobile emissions model (MOBILE6.2) to the current model (MOVES2014).

1. Background and Purpose

1.1 National Ambient Air Quality Standard for Ozone

Congress first enacted the Clean Air Act (CAA) in 1970. It was amended in 1990. The CAA requires the U.S. Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. There are two categories of NAAQS. The primary standards are designed to establish limits to protect public health, and the secondary standards are intended to protect against environmental and welfare effects such as decreased visibility, and damage to crops, animals, and buildings. Currently, there are six pollutants with established primary level NAAQS: carbon monoxide, lead, particulate matter, sulfur dioxide, nitrogen dioxide, and ozone. These pollutants are referred to as “criteria” pollutants. If an area is found to violate one of these standards, it is classified as a nonattainment area for that specific pollutant. The states and/or tribes responsible for the affected area must then develop and implement strategies and control measures to attain the NAAQS. The objective for designated nonattainment areas is to be reclassified to attainment by the EPA.

The 1-hour ozone NAAQS was established in 1979. Under this standard, the ozone threshold value was 120 parts per billion (ppb), measured as a 1-hour average concentration. An area met the ozone NAAQS if there were no more than three exceedances at any one monitor in the region in a three year period.

The CAA requires that the EPA carry out a periodic review of the NAAQS for the criteria pollutants. The EPA reviewed the 1-hour ozone NAAQS during the 1990s and determined that based on the latest health studies a new standard was necessary to ensure protection of public health. The updated standard of 80 ppb was finalized in July of 1997. The 1997 ozone standard is based on an 8-hour averaging period. A violation occurs when the three year average of the annual fourth highest daily maximum 8-hour ozone concentration is less than or equal to the NAAQS (a level of 85 ppb due to the rounding convention).

As a result of EPA’s next periodic review of the ozone NAAQS, the agency determined that the NAAQS did not adequately protect public health. EPA issued a new ozone standard in March, 2008 using the same 8-hour averaging methodology as the 1997 ozone standard, but lowered the standard from 80 ppb to 75 ppb.

1.2 Ozone and Its Formation

Ozone is a reactive chemical compound. It is made up of three oxygen atoms and is defined by the chemical symbol O₃. Ozone is a gas that occurs both in the Earth’s upper atmosphere and at

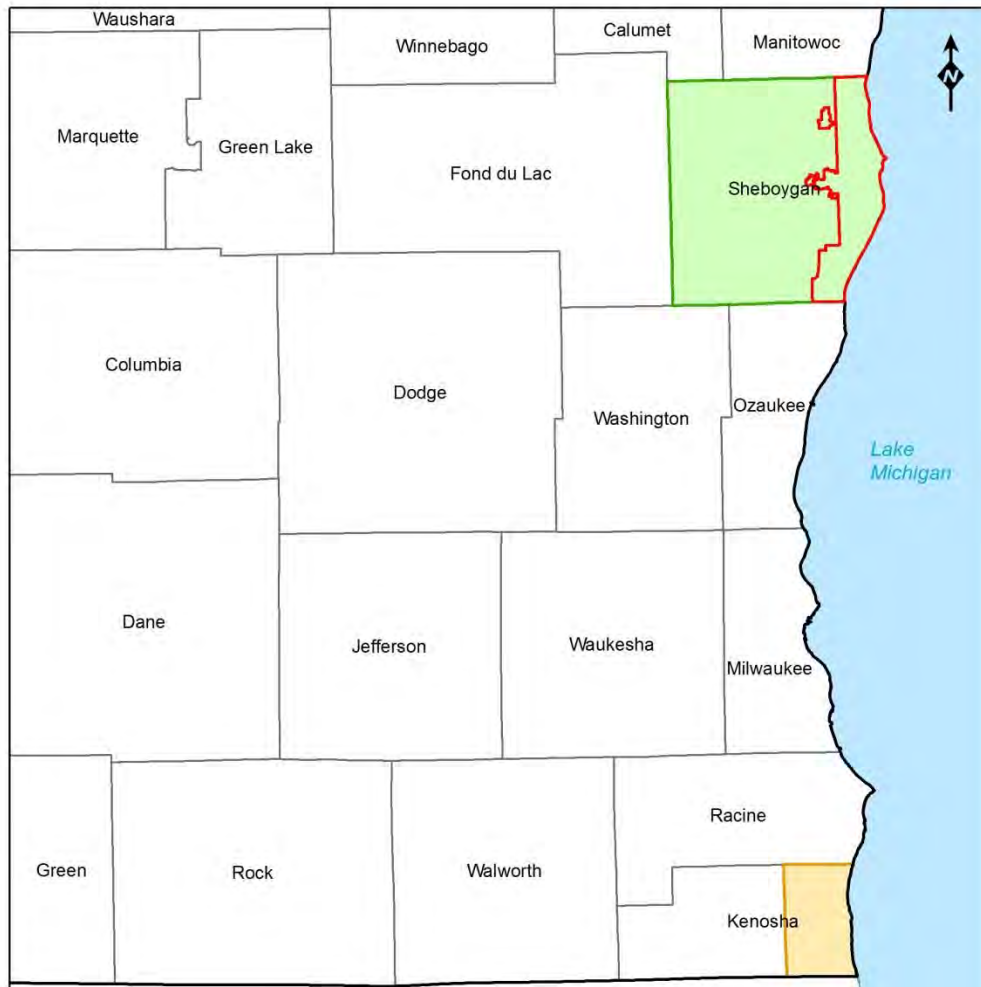
ground level. When it occurs naturally in the upper atmosphere, ozone acts as a shield from the sun's harmful ultraviolet rays. However, ozone that forms at ground level is a concern. Elevated ground-level ozone concentrations can be harmful to humans if breathed. Breathing ozone can trigger a variety of health problems including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground level ozone can reduce lung function and inflame the linings of the lung. Repeated exposure may permanently scar lung tissue.

Unlike most other pollutants, ozone is not directly emitted into the air by specific sources; rather ozone is formed by a photochemical reaction. This reaction occurs between NO_x and VOCs in the presence of sunlight and elevated ambient temperatures. Because sunny, hot conditions are necessary, ground level ozone forms in much higher concentrations during the summer months. Ozone is commonly an urban air issue, but can also be transported to rural areas. NO_x and VOC emissions from motor vehicles and stationary sources can be carried hundreds of miles from their origins, and contribute to high ozone concentrations over large, multi-state regions.

There are numerous sources of NO_x and VOC pollutants including both anthropogenic and natural sources. Anthropogenic sources can be further broken down into four separate source categories: point sources, area sources, on-road mobile sources, and off-road mobile sources. Point sources include large permitted industries and power plants. Area sources are small, stationary, non-transportation sources that collectively as a group can contribute significantly to air pollution. Examples of area sources include gas stations, automotive shops and dry cleaners. The on-road mobile source category includes automobiles, trucks, and buses. The off-road mobile source category includes trains, ships, boats, airplanes, lawn equipment, and construction equipment. Natural sources, including biogenic releases from vegetation, lightning, soil, and decomposition, are not considered in this document due to the difficulties of quantifying and controlling them.

1.3 Description of Wisconsin's Nonattainment Areas

EPA's final rule designating nonattainment areas and associated classifications for the 2008 ozone NAAQS was published in the Federal Register on May 21, 2012 (77 FR 30088). The entire state of Wisconsin was designated attainment/unclassifiable except a portion of Kenosha County and the complete Sheboygan County area, which were designated as marginal nonattainment areas. On June 27, 2013, the Wisconsin Department of Natural Resources (WDNR) asked EPA Region 5 to adjust the Sheboygan County nonattainment boundary to a narrow strip of land adjacent to Lake Michigan. WDNR supplemented this boundary refinement request with technical information on January 22, 2014. Figure 1 presents the map of the two designated nonattainment areas and the proposed adjusted nonattainment area for Sheboygan County.



0 20 40 Miles

Nonattainment Area Boundaries

- Kenosha County: Partial
- Sheboygan County: Whole
- Sheboygan County: Proposed Partial



Ozone Nonattainment Areas in Wisconsin

Figure 1. Wisconsin Marginal Nonattainment Areas under the 2008 Ozone NAAQS.

Concurrent with the designation rule, EPA released an additional final rule that established attainment dates and revoked the 1997 ozone standard for transportation conformity purposes (77 FR 30160, May 21, 2012). This rule sets an attainment date of December 31, 2015 for the Kenosha and Sheboygan marginal nonattainment areas under the 2008 ozone standard.

1.4 Transportation Conformity

Transportation conformity is required under CAA section 176 (c) (42 U.S.C 7506(c)) to ensure that federally funded or approved highway and transit activities are consistent with (“conform to”) the purpose of the state air quality implementation plan (SIP). “Conform to” the purpose of the SIP means that transportation activities will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant NAAQS or any interim milestones. Transportation conformity applies to designated nonattainment and maintenance areas for transportation-related criteria pollutants: ozone, PM_{2.5}, PM₁₀, carbon monoxide, and nitrogen dioxide. EPA’s transportation conformity rule (40 CFR Parts 51 and 93) establishes the criteria and procedures for determining whether metropolitan transportation plans, metropolitan transportation improvement programs, federally supported highways projects, and federally supported transit projects conform to the SIP.

CAA section 176 (c)(6) and the conformity regulation at 40 CFR 93.102(d) provide a one year grace period from the effective date of designations before transportation conformity applies in areas newly designated nonattainment for specific NAAQS. Transportation conformity for the 2008 ozone NAAQS applies one year after the effective date of nonattainment designations for the standard, i.e., July 20, 2013. EPA’s final rule for determining area designations/ classifications under the 2008 ozone NAAQS also revoked the 1997 ozone NAAQS for transportation conformity purposes. The revocation is effective one year after the effective date of designations for the 2008 ozone standard (July 20, 2013). Therefore, transportation conformity for the 1997 ozone NAAQS is no longer required starting on that date. This revocation date also corresponds with the end of the one year conformity grace period for the planning process in ozone nonattainment and maintenance areas. EPA stated that no backsliding will result from the revocation for the purposes of transportation conformity, as areas designated nonattainment for the 2008 ozone NAAQS will be required to use any adequate or approved SIP motor vehicle emissions budgets for a prior ozone NAAQS when determining conformity for the 2008 ozone standard until budgets for the standard are either found adequate or are approved.

In 2014, EPA released the Motor Vehicle Emissions Simulator (MOVES) version 2014 (79 FR 194, October 7, 2014). With EPA’s official release of MOVES2014 they also granted a two year grace period for the requirement to use MOVES2014 in new regional emissions analyses and new hot-spot analyses for transportation conformity determinations.

MOVES2014 is the latest state-of-the-art upgrade to EPA's modeling tools for estimating emissions from cars, trucks, buses and motorcycles, based on the latest data and regulations.

The portion of Kenosha County (Wisconsin portion of the Chicago-Naperville, IL-IN-WI marginal ozone nonattainment area) currently demonstrates transportation conformity using the "Build No Greater than Baseline 2011 Emissions Test" (40 CFR 93.119). For the portion of Kenosha County east of I-94, VOCs cannot exceed 1.389 tons per hot summer day and NO_x cannot exceed 3.622 tons per hot summer day. The Sheboygan marginal ozone nonattainment area currently demonstrates transportation conformity using motor vehicle emissions budgets calculated using the MOBILE6.2 emissions model. For Sheboygan County, VOCs cannot exceed 2.01 tons per hot summer day after 2012 and cannot exceed 1.32 tons per hot summer day after 2020. In addition, NO_x cannot exceed 4.15 tons per hot summer day after 2012 and cannot exceed 1.79 tons per hot summer day after 2020. EPA's grace period for using the MOBILE6.2 model instead of the MOVES model to demonstrate conformity ended on March 2, 2013 (77 FR 11394, February 27, 2012). Because MOBILE 6.2 and MOVES2014 calculate emissions very differently, and emissions are generally higher using MOVES2014 (particularly NO_x emissions), it would be difficult to demonstrate conformity in the Sheboygan analysis that compares MOVES2014 emissions to motor vehicle emission budgets based on MOBILE6.2.

1.5 The State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan Nonattainment Areas

This plan establishes motor vehicle emission budgets to be used in regional transportation determinations for a portion of Kenosha County, the entire Sheboygan County, and a proposed adjustment to the Sheboygan County nonattainment area for the 2008 ozone NAAQS. Although the Sheboygan County nonattainment area has approved motor vehicle emissions budgets that have been used under the 1997 ozone standard, new budgets are needed due to EPA's transition from an older on-road mobile model source emissions model (MOBILE6.2) to the current model (MOVES2014).

The plan demonstrates progress towards attainment of the 2008 ozone NAAQS based on a comparison of ozone precursors (NO_x and VOC) in the base year of 2011 and the attainment year of 2015. This analysis shows substantial reductions in emissions are expected to occur over the 2011-2015 time period in Wisconsin's nonattainment areas as a result of state and federal control requirements that are in place in the areas. The new NO_x and VOC motor vehicle emissions budgets established in this plan are consistent with emission levels that provide for steady progress towards attainment of the 2008 ozone NAAQS.

2. Demonstration of Progress towards Attainment – Development and Comparison of Emissions Inventories for 2011 and 2015

Progress towards attainment is demonstrated if projected emissions by the December 31, 2015 attainment date are significantly less than emissions in the 2011 base year. In order to meet this requirement, the WDNR has developed a 2011 base year comprehensive inventory for NO_x and VOCs and projected the emissions inventory for these two pollutants to 2015 for the nonattainment areas under the 2008 ozone NAAQS (a portion of Kenosha County, the entire Sheboygan County, and the proposed adjustment to the Sheboygan County nonattainment area). Both the 2011 and 2015 emissions inventories include all point, area, on-road mobile, and off-road mobile source categories.

2.1 2011 Base Year Emissions

This section provides a brief description of the methods used to develop the 2011 base year inventory as well as a summary of the emissions. More detailed documentation of the development of the emissions inventories for point, area, on-road mobile and off-road mobile categories are in the appendices.

Point source emissions for NO_x and VOCs were compiled from Wisconsin's Air Reporting System (ARS) by using annually reported point source emissions for 2011. Area sources collectively represent individual sources of emissions that have not been inventoried as having specific point or mobile sources. These individual sources are treated collectively as nonpoint sources that are typically too small, numerous, or difficult to inventory using the methods for other classes of sources. On-road mobile source emissions were developed using MOVES2014. The key inputs used in the MOVES2014 model are as follows: vehicle age distributions based on registration data from the Wisconsin Department of Transportation (WisDOT), detailed transportation data (e.g., vehicle miles of travel [VMT] by vehicle class, road class and hour of day, and average speed distributions), and controls, including the Wisconsin Vehicle Inspection Program (WIVIP) and reformulated gasoline. The 2011 VMT data is summarized in Table 1 and Table 2. Off-road mobile source emissions other than emissions from aircraft, commercial marine engines, and locomotives were also estimated using the MOVES2014 model (20141021 version). This model was run for each month of 2011. Summer day estimates were obtained by dividing the emissions for the months of June, July and August by 92 (the number of days in the three months). Emission estimates for aircraft, commercial marine engines, and locomotives were obtained from the U.S. EPA's 2011 National Emissions Inventory (NEI), version 1, or U.S. EPA's 2011 Emissions Modeling Platform (Modeling Platform), version 6. For aircraft and locomotive emissions, the estimates in the NEI and Modeling Platform are equal. For commercial marine emissions, which all occur over Lake Michigan, the Modeling Platform has updated estimates that were provided by the Lake Michigan Air Directors Consortium

(LADCO). WDNR used these updated values, but allocated a portion of the total Lake Michigan emissions to the Kenosha and Sheboygan nonattainment areas based on the more detailed distributions of emissions in the NEI.

Table 1

2011 Annual Vehicle Miles Traveled (VMT) for Wisconsin's Ozone Nonattainment Areas

Area	2011 Annual VMT
Kenosha County (east of I-94)	907,935,808
Sheboygan County	957,303,020
Proposed Adjustment to Sheboygan County	559,736,039

Table 2

2011 Summer Day Vehicle Miles Traveled (VMT) for Wisconsin's Ozone Nonattainment Areas

Area	2011 Summer Day VMT
Kenosha County (east of I-94)	2,878,875
Sheboygan County	3,077,240
Proposed Adjustment to Sheboygan County	1,799,266

The 2011 emissions are in tons per hot summer day. In order to calculate the emissions in tons per summer day, The WDNR followed the methods summarized briefly in this section. The point source emissions inventory was created using annually reported point source emissions for 2011. Whenever feasible, federal, state and local controls were factored into the emission calculations. Emissions were estimated by collecting process-level information from each facility that qualifies for inclusion in the state's point source database. The WDNR is responsible for developing point source emissions inventories and maintaining the data. A table of detailed 2011 point source emissions is presented in Appendix A. The 2011 area source emissions inventory was created based on the Wisconsin 2011 base year emissions inventory submitted to the U.S. EPA in 2013. A table of 2011 area source emissions by county and source classification code (SCC) is located in Appendix B of this document. SCC is a process-level code that describes the equipment and/or operation that is emitting pollutants (40 CFR 51.50). For nonpoint and mobile sources, these codes comprise 10 digits. 2011 off-road mobile source emissions, other than aircraft, commercial marine engines and locomotives, were also estimated using the MOVES2014 model (20141021 version). This model was run for each month of 2011. Summer day estimates were obtained by dividing the emissions for the months of June, July and August by 92 (the number of days in the three months). For the commercial marine vessels, aircraft and locomotives (MAR) categories, annual emission estimates were obtained from U.S.

EPA's 2011 NEI or Modeling Platform and then summer day emissions were estimated by applying annual to summer day ratios for each of the three MAR categories provided in the LADCO modeling inventory for the year 2007. The other off-road and the on-road emissions reported in this document were estimated by the Motor Vehicle Emission Simulator (MOVES2014), the U.S. EPA's recommended on-road and off-road mobile source model. All estimates were made in accordance with the *MOVES2014 User Guide* (U.S. EPA, Office of Transportation and Air Quality, Assessment and Standards Division, July 2014, EPA 420-B-14-055) and *Using MOVES to Prepare Emission Inventories in State Implementation Plans and Transportation Conformity: Technical Guidance for MOVES2010, 2010a and 2010b* (U.S. EPA, Office of Transportation and Air Quality, Transportation and Climate Division, April 2012, EPA-420-B-12-028).

Table 3

2011 NO_x and VOC Emissions for Kenosha County (east of I-94) Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	8.80	0.70
Area Sources	1.09	4.78
On-Road Mobile Sources	5.14	2.38
Off-Road Mobile Sources	2.14	1.46
Total	17.17	9.32

Table 4

2011 NO_x and VOC Emissions for Sheboygan County Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	10.22	2.63
Area Sources	1.32	6.43
On-Road Mobile Sources	5.41	2.44
Off-Road Mobile Sources	3.61	3.03
Total	20.56	14.53

Table 5

2011 NO_x and VOC Emissions for Proposed Adjustment to Sheboygan Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	9.97	2.35
Area Sources	0.93	4.50
On-Road Mobile Sources	3.48	1.46
Off-Road Mobile Sources	1.94	1.54
Total	16.32	9.85

2.2 Control Measures

To project emissions from 2011 to 2015, the WDNR relied on growth factors and control measures where applicable. The control assumptions are based on measures implemented after the 2011 base year and in place in Wisconsin's ozone nonattainment areas in 2015. This section describes the controls predicted for 2015; more information on the development of the 2015 inventory is available in section 2.3.

The main control measures that were relied upon in this document are the federal motor vehicle standards for on-road and off-road mobile sources, including EPA's heavy duty diesel engine standards, EPA's heavy duty engine and vehicle greenhouse gas (GHG) regulations, Tier 2 motor vehicle standards, and Tier 4 off-road engine standards. These control measures and continued phase out of older, higher polluting mobile sources are incorporated into the MOVES2014 model that were used to develop both the base and future year mobile source emissions inventories. In addition to federal motor vehicle standards, reformulated gasoline requirements in Kenosha County and the Wisconsin Vehicle Inspection Program (WIVIP) in Kenosha and Sheboygan Counties were included when developing both the base and future on-road mobile source inventories.

For most point sources, the growth rate between base year 2011 and 2015 remain even. However, the Edgewater Electrical Generating Unit, located in the Sheboygan nonattainment area, has not operated boiler #23 for almost two years. Alliant Energy, owner of the unit, intends to retire boiler #23 permanently before 2015. Alliant Energy also recently installed a selective catalyst reduction (SCR) system on boiler #25 for NO_x control, as part of signed consent decree. According to the consent decree, the NO_x emission limit for the entire source is 2,500 tpy until 2018, with a further reduction of 1,100 tpy starting in 2019.

It should be noted that the emissions projections included in this plan do not reflect the reductions expected from a range of measures being implemented to reduce NO_x and VOC

emissions in the Wisconsin ozone nonattainment area. These measures have been funded through sources such as the following:

- U.S. EPA's Midwest Clean Diesel Initiative
- Congestion Mitigation and Air Quality Improvement (CMAQ) Program
- Diesel Emissions Reduction Act (DERA)
- Partners for Clean Air Activities
- Non-Motorized Bike Grant
- Various supplemental environmental projects

These projects include the installation of diesel oxidation catalysts on municipal vehicles, auxiliary power units for heavy duty trucks, traffic signal synchronization, and expanded transit services. These projects also include upgrading construction engines and locomotive engines to meet more stringent emissions standards. Many pedestrian and bike facility development and enhancements are providing an alternative to single occupancy vehicle (SOV) travel. It is anticipated that DERA and CMAQ funding will continue to support additional NO_x and VOC emissions reduction projects in the near future, which will contribute to further progress towards attainment of the 2008 ozone NAAQS.

In addition, there are several other federal control measures that have been proposed or promulgated that are not accounted for in the plan but are expected to reduce the amount of NO_x and VOC emissions in the Wisconsin nonattainment areas. The controls expected to have the greatest effect on NO_x and VOC emissions in the Wisconsin ozone nonattainment areas include the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT), mercury and air toxics standards for power plants (MATS), improved motor vehicle fuel efficiency standards, and the phase in of Tier 4 emission standards for off-road engines. The Boiler MACT and MATS were both written to address air pollutants, and will therefore lead to the greatest reductions in pollutants such as mercury, acid gases, and PM_{2.5}. However, if owners of boilers and EGUs subject to these new rules decide to improve plant efficiency or switch to cleaner fuels for compliance strategies, co-benefits for NO_x and VOC emissions are expected for these sources. The WDNR did not rely on any of these recently promulgated or proposed rules when developing the future year emissions inventory; however, the anticipated reductions from these new rules may also contribute to progress towards attainment of the 2008 ozone NAAQS for Wisconsin's nonattainment areas.

2.3 2015 Future Year Emissions

This section describes the development of the 2015 future year emissions inventory. Unless otherwise noted below, the projected point and area source emissions in the Wisconsin nonattainment areas for 2015 were estimated using growth factors appropriate for each source

category. Tables 6, 7, and 8 summarize the ozone season day NO_x and VOC emissions in Wisconsin's ozone nonattainment areas from all four source categories.

Table 6

2015 NO_x and VOC Emissions for Kenosha County (east of I-94) Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	8.80	0.70
Area Sources	1.09	4.72
On-Road Mobile Sources	4.40	1.99
Off-Road Mobile Sources	1.69	1.08
Total	15.98	8.49

Table 7

2015 NO_x and VOC Emissions for Sheboygan County Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	6.16	2.63
Area Sources	1.33	6.34
On-Road Mobile Sources	4.44	1.97
Off-Road Mobile Sources	2.76	2.33
Total	14.68	13.27

Table 8

2015 NO_x and VOC Emissions for Proposed Adjustment to Sheboygan Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	6.01	2.35
Area Sources	0.93	4.44
On-Road Mobile Sources	2.89	1.19
Off-Road Mobile Sources	1.46	1.13
Total	11.29	9.11

2.3.1 2015 Point Source Emissions

To forecast point source emissions from 2011 to 2015, WDNR used a “zero growth” projection that was recommended by U.S.EPA Region 5. However, specific reductions were made to the Edgewater Electrical Generating Unit in Sheboygan County, based on permit conditions. Table 9 shows the overall NO_x and VOC emissions for point sources in Wisconsin’s ozone nonattainment areas.

Table 9

2015 Point Source Emissions for Wisconsin’s Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	8.80	0.70
Sheboygan County	6.15	2.63
Proposed Adjustment to Sheboygan County	6.01	2.35

2.3.2 2015 Area Source Emissions

The 2015 area source emissions inventory was created by projecting the Wisconsin 2011 base year emissions inventory submitted to the U.S. EPA in 2014 for the National Emissions Inventory (NEI). The forecasting factors were primarily based on growth factors from the EGAS model. The “Default REMI 6.0 SCC Configuration” for EGAS was used. If growth factors were not available for a certain SCC, population based growth factors were derived from the Wisconsin Department of Administration’s Demographic Services Center population reports.

Table 10

2015 Area Source Emissions for Wisconsin’s Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	1.09	4.72
Sheboygan County	1.33	6.34
Proposed Adjustment to Sheboygan County	0.93	4.44

2.3.3 2015 On-Road Source Emissions

On-road mobile source emissions for 2015 were developed using the MOVES2014 model. The transportation modeling inputs to MOVES2014 for the Kenosha nonattainment area are based on data provided by SEWRPC on July 17, 2014. The transportation modeling inputs to MOVES2014 for the Sheboygan areas are based on data provided by WisDOT on October 24, 2014. The forecast for the Kenosha County transportation emissions are predicated on the high economic growth rate with an added 7.5 percent emissions safety margin. The forecast for the Sheboygan County transportation emissions are predicated on the official growth rate with an added 15 percent emissions safety margin. More information about the development of the 2015 on-road emissions inventory can be found in Appendix C of this document.

Table 11

2015 On-Road Source Emissions for Wisconsin's Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	4.40	1.99
Sheboygan County	4.44	1.97
Proposed Adjustment to Sheboygan County	2.89	1.19

Table 12

Projected 2015 Annual Vehicle Miles Traveled (VMT) for Wisconsin's Ozone Nonattainment Areas

Area	2015 Annual VMT
Kenosha County (east of I-94)	1,082,961,854
Sheboygan County	1,033,217,803
Proposed Adjustment to Sheboygan County	602,676,336

Table 13

Projected Summer Day Vehicle Miles Traveled (VMT) for Wisconsin's Ozone Nonattainment Areas

Area	2015 Summer Day VMT
Kenosha County (east of I-94)	3,433,872
Sheboygan County	3,321,266
Proposed Adjustment to Sheboygan County	1,937,297

2.3.4 2015 Off-Road Source Emissions

Off-road mobile source emissions projections for 2015, other than aircraft, commercial marine engines, and locomotives, were developed using the MOVES2014 model. The MOVES2014 model includes control measures for federal controls that have been promulgated. Aircraft, commercial marine engine, and locomotive emissions were developed from EPA's 2018 modeling platform by interpolating the difference between the base year of 2011 and 2018 to determine attainment year emissions for 2015. Detailed information about the development of the 2015 off-road emission inventory can be found in Appendix D and Appendix E of this document.

Table 14

2015 Off-Road Mobile Source Emissions for Wisconsin's Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	1.69	1.08
Sheboygan County	2.76	2.33
Proposed Adjustment to Sheboygan County	1.46	1.13

2.4 Emissions Comparison

Tables 15, 16, and 17 provide a comparison of ozone season day emissions for the years 2011 and 2015. The table shows the differences by source category with the total changes in emissions for each pollutant listed. As shown in the tables, NO_x and VOC emissions within the nonattainment areas are expected to decrease significantly between 2011 and 2015. These emission trends demonstrate that progress will be made towards attainment of the 2008 ozone NAAQS.

Table 15

Comparison of 2011 and 2015 NO_x and VOC Emissions for Kenosha County (east of I-94) Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	0	0
Area Sources	0	-0.06
On-Road Mobile Sources	-0.74	-0.39
Off-Road Mobile Sources	-0.45	-0.38
Total	-1.19	-0.83
Total Percent Reduction	7%	9%

Table 16

Comparison of 2011 and 2015 NO_x and VOC Emissions for Sheboygan County Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	-4.04	0
Area Sources	+0.01	-0.09
On-Road Mobile Sources	-0.97	-0.47
Off-Road Mobile Sources	-0.85	-0.7
Total	-5.85	-1.26
Total Percent Reduction	29%	9%

Table 17

Comparison of 2011 and 2015 NO_x and VOC Emissions for Proposed Adjustment to Sheboygan Ozone Nonattainment Area (Tons per Summer Day)

Source Category	NO_x	VOC
Point Sources	-3.96	0
Area Sources	0	-0.06
On-Road Mobile Sources	-0.59	-0.27
Off-Road Mobile Sources	-0.48	-0.41
Total	-5.03	-0.74
Total Percent Reduction	31%	8%

3. Transportation Conformity and Motor Vehicle Emission Budgets

This section establishes new NO_x and VOC motor vehicle emissions budgets for the 2015 attainment year to be used for transportation conformity purposes in Wisconsin's nonattainment areas after EPA determines budget adequacy. The budgets are set based on the on-road mobile source emissions in 2015 and are consistent with an overall level of emissions that assures progress toward attainment of the 2008 ozone NAAQS. These budgets were developed using MOVES2014. Appendix C contains key data used to develop inputs to MOVES2014 to create these budgets. (The complete set of inputs to MOVES2014 is too lengthy to include in this document. However, electronic copies of the inputs can be obtained from WDNR by email at christopher.bovee@wisconsin.gov or by phone at (608) 266-5542.)

For the Wisconsin 2008 ozone nonattainment areas, transportation conformity will be based on the submitted motor vehicle emission budgets after EPA determines that the budgets meet the adequacy criteria of the transportation conformity rule. Once these budgets are found adequate by EPA, they will replace the motor vehicle emissions budgets established for the redesignation and maintenance SIP for the 1997 ozone NAAQS. Table 18 identifies the 2015 motor vehicle emissions budgets for the Wisconsin 2008 ozone nonattainment areas for use in transportation conformity analyses.

Table 18

2015 Motor Vehicle Emissions Budgets for Wisconsin's Ozone Nonattainment Areas (Tons per Summer Day)

Area	NO _x	VOC
Kenosha County (east of I-94)	4.397	1.994
Sheboygan County	4.435	1.972
Proposed Adjustment to Sheboygan County	2.886	1.189

4. Public Participation

In accordance with section 110(a) (2) of the CAA, the WDNR is required to hold a public hearing prior to the adoption of this plan and subsequent submittal to the EPA. The Department will notify the public and other interested parties of an upcoming public hearing and public comment period 14 days prior to holding the hearing as follows:

- Notice of availability of the 2015 Motor Vehicle Emission Budgets for Transportation Conformity was posted on the Wisconsin Department of Natural Resources Air Management website on December 10, 2014:

<http://dnr.wi.gov/topic/AirQuality/Pollutants.html>

- The public hearing was scheduled for December 23, 2014 beginning at 1:30p.m. at the Wisconsin Department of Natural Resources Building, Conference Room 713, 101 South Webster Street, Madison, WI 53707
- The public comment period for the plan opened when it was posted on the Wisconsin Department of Natural Resources Air Management website on December 10, 2014, and closes on January 9, 2015, nineteen days after the public hearing.

Conclusion

This plan demonstrates progress towards attainment of the 2008 ozone NAAQS for Wisconsin's nonattainment areas. As shown in Tables 15, 16, and 17, the NO_x and VOC emissions reductions from 2011 to 2015 for Wisconsin's nonattainment areas range from 7 percent to 31 percent. These emission reductions were based on control measures that are permanent and enforceable and will continue to improve air quality in the region. Additionally, this plan establishes motor vehicle emission budgets for NO_x and VOC in the year 2015 that can be used in Wisconsin's nonattainment areas for regional transportation conformity determinations once the budgets are found adequate by EPA.

Appendix A: 2011 and 2015 Point Source Emissions

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
230006260	Wisconsin Electric Power Company, D/B/A We Energies-Pleasant Prairie Power Plant	Kenosha	NO _x	2498.49	8.72	2498.49	8.72
230008350	Kenosha Steel Castings	Kenosha	NO _x	2.13	0.01	2.13	0.01
230009450	Ocean Spray Cranberries Inc.	Kenosha	NO _x	8.83	0.02	8.83	0.02
230012530	Laminated Products, Inc.	Kenosha	NO _x	0.43	0	0.43	0
230035410	Mondi Akrosil Llc	Kenosha	NO _x	0.63	0.01	0.63	0.01
230058180	Wis Doa / Uw-Parkside Power Plant	Kenosha	NO _x	5.87	0.01	5.87	0.01
230059280	United Hospital Systems Inc./St Catherines	Kenosha	NO _x	4.26	0.01	4.26	0.01
230072040	Rust - Oleum Corp	Kenosha	NO _x	1.5	0	1.5	0
230094590	Kenosha Medical Center Campus	Kenosha	NO _x	3.81	0.01	3.81	0.01
230099100	Carthage College	Kenosha	NO _x	4.49	0.01	4.49	0.01
230141780	Horizon Milling Llc	Kenosha	NO _x	0.01	0	0.01	0
230167520	Iea, Inc. – Kenosha	Kenosha	NO _x	0.29	0	0.29	0
230198760	K & K Screw Products Llc	Kenosha	NO _x	0.07	0	0.07	0
460008120	Pemco Inc.	Sheboygan	NO _x	0.38	0	0.38	0
460008230	Georgia-Pacific Corrugated Llc	Sheboygan	NO _x	2.85	0.01	2.85	0.01
460012740	Old Wisconsin Sausage Co Plant 2	Sheboygan	NO _x	1.36	0	1.36	0
460013510	Curt G. Joa, Incorporated	Sheboygan	NO _x	0.4	0	0.4	0
460023520	Manning Lighting, Inc.	Sheboygan	NO _x	0.33	0	0.33	0
460023740	Lakeshore Display Co., Inc.	Sheboygan	NO _x	0.16	0	0.16	0
460027810	Aldrich Chemical Company	Sheboygan	NO _x	0.01	0	0.01	0
460029460	Nemschoff Chairs, Inc.	Sheboygan	NO _x	0.08	0	0.08	0
460029570	Nemschoff Chairs Inc.	Sheboygan	NO _x	1.16	0	1.16	0
460032760	Adell Corporation	Sheboygan	NO _x	11.79	0.03	11.79	0.03
460032870	Kohler Co-Metals Processing Complex	Sheboygan	NO _x	231.39	1.09	231.39	1.09
460033090	Wpl - Edgewater Generating Station	Sheboygan	NO _x	3297.64	9.86	1814.00	6.16
460033420	Johnsonville Foods	Sheboygan	NO _x	7.9	0.02	7.9	0.02
460034410	Bemis Mfg. Co. - Plant D	Sheboygan	NO _x	1.22	0	1.22	0
460034630	Bemis Mfg. Co. Plant B	Sheboygan	NO _x	3.78	0.01	3.78	0.01
460034740	Plastics Engineering Co N 15th St Plant	Sheboygan	NO _x	15.49	0.04	15.49	0.04
460034960	Austin Gray Iron Foundry	Sheboygan	NO _x	0.15	0	0.15	0
460035180	The Vollrath Company, Llc	Sheboygan	NO _x	4.1	0.01	4.1	0.01
460035730	Willman Industries	Sheboygan	NO _x	1.94	0.01	1.94	0.01
460036170	The Mayline Co.(Wood Plant)	Sheboygan	NO _x	0.45	0	0.45	0

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460036280	Aurora Sheboygan Memorial Medical Center	Sheboygan	NO _x	3.02	0.01	3.02	0.01
460037820	Sheboygan Co Highway Commission	Sheboygan	NO _x	6.46	0.05	6.46	0.05
460038700	Kohler Co - Town Of Mosel Plant	Sheboygan	NO _x	23.8	0.08	23.8	0.08
460040460	Anr Pipeline Co.(Kewaskum Comp. Station)	Sheboygan	NO _x	17.52	0.05	17.52	0.05
460041230	J. L. French Corp.	Sheboygan	NO _x	10.16	0.03	10.16	0.03
460041670	Momentive Specialty Chemicals Inc.	Sheboygan	NO _x	15.78	0.04	15.78	0.04
460061250	Richardson Yacht Interiors	Sheboygan	NO _x	0.36	0	0.36	0
460067190	Wpl - Sheboygan Falls Energy Facility	Sheboygan	NO _x	3.44	0.2	3.44	0.2
460086990	Times Printing Co Inc.	Sheboygan	NO _x	1.26	0	1.26	0
460094470	Bremer Manufacturing	Sheboygan	NO _x	0.75	0	0.75	0
460098760	Plymouth Foam Incorporated	Sheboygan	NO _x	2.41	0.01	2.41	0.01
460106570	American Excelsior	Sheboygan	NO _x	0.17	0	0.17	0
460119330	Bemis Wood Flour Mill	Sheboygan	NO _x	0.09	0	0.09	0
460141330	J.L. French Corporation, Gateway Plant	Sheboygan	NO _x	49.5	0.14	49.5	0.14
460141660	Lakeland College	Sheboygan	NO _x	1.89	0.01	1.89	0.01
460145840	The Mayline Co.(Steel Plant)	Sheboygan	NO _x	0.58	0	0.58	0
460147820	Kohler Company - Vitreous Plant	Sheboygan	NO _x	6.73	0.02	6.73	0.02
460147930	Kohler Co-Engine Plant	Sheboygan	NO _x	2.96	0.01	2.96	0.01
460153980	Aurora Medical System - Valley View Medical	Sheboygan	NO _x	0.7	0	0.7	0
230006260	Wisconsin Electric Power Company, D/B/A We Energies-Pleasant Prairie Power Plant	Kenosha	ROG	123.62	0.43	123.62	0.43
230008350	Kenosha Steel Castings	Kenosha	ROG	15.66	0.05	15.66	0.05
230009450	Ocean Spray Cranberries Inc.	Kenosha	ROG	1.32	0	1.32	0
230012530	Laminated Products, Inc.	Kenosha	ROG	3.29	0.01	3.29	0.01
230035410	Mondi Akrosil Llc	Kenosha	ROG	0.69	0.02	0.69	0.02
230058180	Wis Doa / Uw-Parkside Power Plant	Kenosha	ROG	0.32	0	0.32	0
230059280	United Hospital Systems Inc./St Catherines	Kenosha	ROG	0.22	0	0.22	0
230072040	Rust - Oleum Corp	Kenosha	ROG	14.6	0.05	14.6	0.05
230094590	Kenosha Medical Center Campus	Kenosha	ROG	0.23	0	0.23	0
230099100	Carthage College	Kenosha	ROG	0.25	0	0.25	0
230117580	Honeywell Automation And Control Solutions	Kenosha	ROG	1.2	0	1.2	0
230134960	Lmi Packaging Solutions	Kenosha	ROG	6.52	0.02	6.52	0.02
230135290	Five Star Fabricating, Incorporated	Kenosha	ROG	13.58	0.05	13.58	0.05
230141780	Horizon Milling Llc	Kenosha	ROG	0	0	0	0
230167520	Iea, Inc. – Kenosha	Kenosha	ROG	3.94	0.01	3.94	0.01
230198760	K & K Screw Products Llc	Kenosha	ROG	16.41	0.06	16.41	0.06
460008120	Pemco Inc.	Sheboygan	ROG	2.55	0.01	2.55	0.01
460008230	Georgia-Pacific Corrugated Llc	Sheboygan	ROG	3.82	0.01	3.82	0.01
460012740	Old Wisconsin Sausage Co Plant 2	Sheboygan	ROG	2.67	0.01	2.67	0.01

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460013510	Curt G. Joa, Incorporated	Sheboygan	ROG	3.34	0.01	3.34	0.01
460022530	Sheboygan Paperbox Co.	Sheboygan	ROG	27.71	0.12	27.71	0.12
460023520	Manning Lighting, Inc.	Sheboygan	ROG	0.45	0	0.45	0
460023740	Lakeshore Display Co., Inc.	Sheboygan	ROG	16.61	0.14	16.61	0.14
460027480	Kieffer & Co., Inc.	Sheboygan	ROG	2.11	0.01	2.11	0.01
460027810	Aldrich Chemical Company	Sheboygan	ROG	23.8	0.07	23.8	0.07
460029460	Nemschoff Chairs, Inc.	Sheboygan	ROG	11.74	0.05	11.74	0.05
460029570	Nemschoff Chairs Inc.	Sheboygan	ROG	14.36	0.05	14.36	0.05
460032760	Adell Corporation	Sheboygan	ROG	0.72	0	0.72	0
460032870	Kohler Co-Metals Processing Complex	Sheboygan	ROG	56.78	0.2	56.78	0.2
460033090	Wpl - Edgewater Generating Station	Sheboygan	ROG	110.32	0.33	110.32	0.33
460033420	Johnsonville Foods	Sheboygan	ROG	5.24	0.02	5.24	0.02
460034410	Bemis Mfg. Co. - Plant D	Sheboygan	ROG	5.61	0.03	5.61	0.03
460034630	Bemis Mfg. Co. Plant B	Sheboygan	ROG	171.05	0.48	171.05	0.48
460034740	Plastics Engineering Co N 15th St Plant	Sheboygan	ROG	7.43	0.02	7.43	0.02
460034960	Austin Gray Iron Foundry	Sheboygan	ROG	2.98	0.01	2.98	0.01
460035180	The Vollrath Company, Llc	Sheboygan	ROG	0.23	0	0.23	0
460035730	Willman Industries	Sheboygan	ROG	25.71	0.1	25.71	0.1
460036170	The Mayline Co.(Wood Plant)	Sheboygan	ROG	0.44	0	0.44	0
460036280	Aurora Sheboygan Memorial Medical Center	Sheboygan	ROG	0.17	0	0.17	0
460037820	Sheboygan Co Highway Commission	Sheboygan	ROG	0.44	0	0.44	0
460038700	Kohler Co - Town Of Mosel Plant	Sheboygan	ROG	9.42	0.03	9.42	0.03
460038810	Sheboygan Paint Co.	Sheboygan	ROG	57.5	0.24	57.5	0.24
460039470	Poly Vinyl Company Inc.	Sheboygan	ROG	3.24	0.02	3.24	0.02
460040460	Anr Pipeline Co.(Kewaskum Comp. Station)	Sheboygan	ROG	0.34	0	0.34	0
460041230	J. L. French Corp.	Sheboygan	ROG	4.08	0.01	4.08	0.01
460041670	Momentive Specialty Chemicals Inc.	Sheboygan	ROG	22.87	0.06	22.87	0.06
460061250	Richardson Yacht Interiors	Sheboygan	ROG	4.39	0.02	4.39	0.02
460067190	Wpl - Sheboygan Falls Energy Facility	Sheboygan	ROG	0.31	0.02	0.31	0.02
460086990	Times Printing Co Inc.	Sheboygan	ROG	12.26	0.05	12.26	0.05
460094470	Bremer Manufacturing	Sheboygan	ROG	0.02	0	0.02	0
460098760	Plymouth Foam Incorporated	Sheboygan	ROG	54.17	0.15	54.17	0.15
460100080	Ajs & Associates, Inc.	Sheboygan	ROG	2.4	0.01	2.4	0.01
460106570	American Excelsior	Sheboygan	ROG	9.07	0.04	9.07	0.04
460119330	Bemis Wood Flour Mill	Sheboygan	ROG	0	0	0	0
460120760	Lakeland Sports Center	Sheboygan	ROG	2.15	0.01	2.15	0.01
460130440	Saco Polymers Inc.	Sheboygan	ROG	7.45	0.02	7.45	0.02
460141330	J.L. French Corporation, Gateway Plant	Sheboygan	ROG	18.03	0.05	18.03	0.05
460141660	Lakeland College	Sheboygan	ROG	0.1	0	0.1	0
460145730	Westshore Industries	Sheboygan	ROG	6.43	0.03	6.43	0.03
460145840	The Mayline Co.(Steel Plant)	Sheboygan	ROG	17.3	0.06	17.3	0.06

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460147820	Kohler Company - Vitreous Plant	Sheboygan	ROG	0.43	0	0.43	0
460147930	Kohler Co-Engine Plant	Sheboygan	ROG	23.07	0.06	23.07	0.06
460148150	Universal Lithographers	Sheboygan	ROG	3.99	0.02	3.99	0.02
460153980	Aurora Medical System - Valley View Medical	Sheboygan	ROG	0.04	0	0.04	0
460157500	Certain Teed	Sheboygan	ROG	3.3	0.02	3.3	0.02
460169600	Franzen Lithoscreen Inc.	Sheboygan	ROG	11.19	0.04	11.19	0.04

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460008120	Pemco Inc.	Proposed Adjustment to Sheboygan	NO _x	0.38	0	0.38	0
460008230	Georgia-Pacific Corrugated Llc	Proposed Adjustment to Sheboygan	NO _x	2.85	0.01	2.85	0.01
460012740	Old Wisconsin Sausage Co Plant 2	Proposed Adjustment to Sheboygan	NO _x	1.36	0	1.36	0
460013510	Curt G. Joa, Incorporated	Proposed Adjustment to Sheboygan	NO _x	0.4	0	0.4	0
460023520	Manning Lighting, Inc.	Proposed Adjustment to Sheboygan	NO _x	0.33	0	0.33	0
460023740	Lakeshore Display Co., Inc.	Proposed Adjustment to Sheboygan	NO _x	0.16	0	0.16	0
460027810	Aldrich Chemical Company	Proposed Adjustment to Sheboygan	NO _x	0.01	0	0.01	0
460029460	Nemschoff Chairs, Inc.	Proposed Adjustment to Sheboygan	NO _x	0.08	0	0.08	0
460029570	Nemschoff Chairs Inc.	Proposed Adjustment to Sheboygan	NO _x	1.16	0	1.16	0
460032760	Adell Corporation	Proposed Adjustment to Sheboygan	NO _x	11.79	0.03	11.79	0.03
460032870	Kohler Co-Metals Processing Complex	Proposed Adjustment to Sheboygan	NO _x	231.39	1.09	231.39	1.09
460033090	Wpl - Edgewater Generating Station	Proposed Adjustment to Sheboygan	NO _x	3297.64	9.86	1814.00	6.16
460034410	Bemis Mfg. Co. - Plant D	Proposed Adjustment to Sheboygan	NO _x	1.22	0	1.22	0
460034630	Bemis Mfg. Co. Plant B	Proposed Adjustment to Sheboygan	NO _x	3.78	0.01	3.78	0.01
460034740	Plastics Engineering Co N 15th St Plant	Proposed Adjustment to Sheboygan	NO _x	15.49	0.04	15.49	0.04
460034960	Austin Gray Iron Foundry	Proposed Adjustment to Sheboygan	NO _x	0.15	0	0.15	0
460035180	The Vollrath Company, Llc	Proposed Adjustment to Sheboygan	NO _x	4.1	0.01	4.1	0.01
460035730	Willman Industries	Proposed Adjustment to Sheboygan	NO _x	1.94	0.01	1.94	0.01
460036170	The Mayline Co.(Wood Plant)	Proposed Adjustment to Sheboygan	NO _x	0.45	0	0.45	0
460036280	Aurora Sheboygan Memorial Medical Center	Proposed Adjustment to Sheboygan	NO _x	3.02	0.01	3.02	0.01
460037820	Sheboygan Co Highway Commission	Proposed Adjustment to Sheboygan	NO _x	6.46	0.05	6.46	0.05
460038700	Kohler Co - Town Of Mosel Plant	Proposed Adjustment to Sheboygan	NO _x	23.8	0.08	23.8	0.08
460041230	J. L. French Corp.	Proposed Adjustment to Sheboygan	NO _x	10.16	0.03	10.16	0.03
460041670	Momentive Specialty Chemicals Inc.	Proposed Adjustment to Sheboygan	NO _x	15.78	0.04	15.78	0.04
460061250	Richardson Yacht Interiors	Proposed Adjustment to Sheboygan	NO _x	0.36	0	0.36	0
460067190	Wpl - Sheboygan Falls Energy Facility	Proposed Adjustment to Sheboygan	NO _x	3.44	0.2	3.44	0.2

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460086990	Times Printing Co Inc.	Proposed Adjustment to Sheboygan	NO _x	1.26	0	1.26	0
460094470	Bremer Manufacturing	Proposed Adjustment to Sheboygan	NO _x	0.75	0	0.75	0
460106570	American Excelsior	Proposed Adjustment to Sheboygan	NO _x	0.17	0	0.17	0
460119330	Bemis Wood Flour Mill	Proposed Adjustment to Sheboygan	NO _x	0.09	0	0.09	0
460141330	J.L. French Corporation, Gateway Plant	Proposed Adjustment to Sheboygan	NO _x	49.5	0.14	49.5	0.14
460145840	The Mayline Co.(Steel Plant)	Proposed Adjustment to Sheboygan	NO _x	0.58	0	0.58	0
460147820	Kohler Company - Vitreous Plant	Proposed Adjustment to Sheboygan	NO _x	6.73	0.02	6.73	0.02
460147930	Kohler Co-Engine Plant	Proposed Adjustment to Sheboygan	NO _x	2.96	0.01	2.96	0.01
460153980	Aurora Medical System - Valley View Medical	Proposed Adjustment to Sheboygan	NO _x	0.7	0	0.7	0
460008120	Pemco Inc.	Proposed Adjustment to Sheboygan	ROG	2.55	0.01	2.55	0.01
460008230	Georgia-Pacific Corrugated Llc	Proposed Adjustment to Sheboygan	ROG	3.82	0.01	3.82	0.01
460012740	Old Wisconsin Sausage Co Plant 2	Proposed Adjustment to Sheboygan	ROG	2.67	0.01	2.67	0.01
460013510	Curt G. Joa, Incorporated	Proposed Adjustment to Sheboygan	ROG	3.34	0.01	3.34	0.01
460022530	Sheboygan Paperbox Co.	Proposed Adjustment to Sheboygan	ROG	27.71	0.12	27.71	0.12
460023520	Manning Lighting, Inc.	Proposed Adjustment to Sheboygan	ROG	0.45	0	0.45	0
460023740	Lakeshore Display Co., Inc.	Proposed Adjustment to Sheboygan	ROG	16.61	0.14	16.61	0.14
460027480	Kieffer & Co., Inc.	Proposed Adjustment to Sheboygan	ROG	2.11	0.01	2.11	0.01
460027810	Aldrich Chemical Company	Proposed Adjustment to Sheboygan	ROG	23.8	0.07	23.8	0.07
460029460	Nemschoff Chairs, Inc.	Proposed Adjustment to Sheboygan	ROG	11.74	0.05	11.74	0.05
460029570	Nemschoff Chairs Inc.	Proposed Adjustment to Sheboygan	ROG	14.36	0.05	14.36	0.05
460032760	Adell Corporation	Proposed Adjustment to Sheboygan	ROG	0.72	0	0.72	0
460032870	Kohler Co-Metals Processing Complex	Proposed Adjustment to Sheboygan	ROG	56.78	0.2	56.78	0.2
460033090	Wpl - Edgewater Generating Station	Proposed Adjustment to Sheboygan	ROG	110.32	0.33	103.00	0.28
460034410	Bemis Mfg. Co. - Plant D	Proposed Adjustment to Sheboygan	ROG	5.61	0.03	5.61	0.03
460034630	Bemis Mfg. Co. Plant B	Proposed Adjustment to Sheboygan	ROG	171.05	0.48	171.05	0.48
460034740	Plastics Engineering Co N 15th St Plant	Proposed Adjustment to Sheboygan	ROG	7.43	0.02	7.43	0.02
460034960	Austin Gray Iron Foundry	Proposed Adjustment to Sheboygan	ROG	2.98	0.01	2.98	0.01
460035180	The Vollrath Company, Llc	Proposed Adjustment to Sheboygan	ROG	0.23	0	0.23	0
460035730	Willman Industries	Proposed Adjustment to Sheboygan	ROG	25.71	0.1	25.71	0.1
460036170	The Mayline Co.(Wood Plant)	Proposed Adjustment to Sheboygan	ROG	0.44	0	0.44	0
460036280	Aurora Sheboygan Memorial Medical Center	Proposed Adjustment to Sheboygan	ROG	0.17	0	0.17	0
460037820	Sheboygan Co Highway Commission	Proposed Adjustment to Sheboygan	ROG	0.44	0	0.44	0
460038700	Kohler Co - Town Of Mosel Plant	Proposed Adjustment to Sheboygan	ROG	9.42	0.03	9.42	0.03
460038810	Sheboygan Paint Co.	Proposed Adjustment to Sheboygan	ROG	57.5	0.24	57.5	0.24
460039470	Poly Vinyl Company Inc.	Proposed Adjustment to Sheboygan	ROG	3.24	0.02	3.24	0.02
460041230	J. L. French Corp.	Proposed Adjustment to Sheboygan	ROG	4.08	0.01	4.08	0.01
460041670	Momentive Specialty Chemicals Inc.	Proposed Adjustment to Sheboygan	ROG	22.87	0.06	22.87	0.06
460061250	Richardson Yacht Interiors	Proposed Adjustment to Sheboygan	ROG	4.39	0.02	4.39	0.02
460067190	Wpl - Sheboygan Falls Energy Facility	Proposed Adjustment to Sheboygan	ROG	0.31	0.02	0.31	0.02

FID	Facility Name	County	Pollutant	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
460086990	Times Printing Co Inc.	Proposed Adjustment to Sheboygan	ROG	12.26	0.05	12.26	0.05
460094470	Bremer Manufacturing	Proposed Adjustment to Sheboygan	ROG	0.02	0	0.02	0
460100080	Ajs & Associates, Inc.	Proposed Adjustment to Sheboygan	ROG	2.4	0.01	2.4	0.01
460106570	American Excelsior	Proposed Adjustment to Sheboygan	ROG	9.07	0.04	9.07	0.04
460119330	Bemis Wood Flour Mill	Proposed Adjustment to Sheboygan	ROG	0	0	0	0
460130440	Saco Polymers Inc.	Proposed Adjustment to Sheboygan	ROG	7.45	0.02	7.45	0.02
460141330	J.L. French Corporation, Gateway Plant	Proposed Adjustment to Sheboygan	ROG	18.03	0.05	18.03	0.05
460145730	Westshore Industries	Proposed Adjustment to Sheboygan	ROG	6.43	0.03	6.43	0.03
460145840	The Mayline Co.(Steel Plant)	Proposed Adjustment to Sheboygan	ROG	17.3	0.06	17.3	0.06
460147820	Kohler Company - Vitreous Plant	Proposed Adjustment to Sheboygan	ROG	0.43	0	0.43	0
460147930	Kohler Co-Engine Plant	Proposed Adjustment to Sheboygan	ROG	23.07	0.06	23.07	0.06
460148150	Universal Lithographers	Proposed Adjustment to Sheboygan	ROG	3.99	0.02	3.99	0.02
460153980	Aurora Medical System - Valley View Medical	Proposed Adjustment to Sheboygan	ROG	0.04	0	0.04	0
460169600	Franzen Lithoscreen Inc.	Proposed Adjustment to Sheboygan	ROG	11.19	0.04	11.19	0.04

Appendix B: 2011 and 2015 Nonpoint (Area) Source Emissions

Table B-1

Sheboygan County Nonattainment Area VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2102002000	Fuel Comb - Industrial Boilers, ICes - Bituminous/Subbituminous Coal	0.000	TON	0.050	LB	TON	0.000	0.000	0.000	0.000
2102004001	Fuel Comb - Industrial Boilers, ICes - Distillate Oil	81.098	GAL	0.200	LB	GAL	0.008	0.000	0.008	0.000
2102005000	Fuel Comb - Industrial Boilers, ICes - Residual Oil	17.100	GAL	0.280	LB	GAL	0.002	0.000	0.002	0.000
2102006000	Fuel Comb - Industrial Boilers, ICes - Natural Gas	977.185	FT3	5.500	LB	FT3	2.687	0.007	2.576	0.007
2102007000	Fuel Comb - Industrial Boilers, ICes - LPG	18.054	GAL	0.520	LB	GAL	0.005	0.000	0.005	0.000
2102008000	Fuel Comb - Industrial Boilers, ICes - Wood	0.000	TON	0.017	LB	TON	0.000	0.000	0.000	0.000
2102011000	Fuel Comb - Industrial Boilers, ICes - Kerosene	4.018	GAL	0.190	LB	GAL	0.000	0.000	0.000	0.000
2103002000	Fuel Comb - Commercial/Institutional - Bituminous Coal	999.956	TON	0.050	LB	TON	0.025	0.000	0.025	0.000
2103004001	Fuel Comb - Commercial/Institutional - Distillate Oil	292.303	GAL	0.340	LB	GAL	0.050	0.000	0.050	0.000
2103005000	Fuel Comb - Commercial/Institutional - Residual Oil	0.000	GAL	1.130	LB	GAL	0.000	0.000	0.000	0.000
2103006000	Fuel Comb - Commercial/Institutional - Natural Gas	1391.737	FT3	5.500	LB	FT3	3.827	0.010	3.669	0.000
2103007000	Fuel Comb - Commercial/Institutional - LPG	800.384	GAL	0.520	LB	GAL	0.208	0.001	.2081	0.001
2103008000	Fuel Comb - Commercial/Institutional - Wood	422.109	TON	0.017	LB	TON	0.004	0.000	0.004	0.000
2103011000	Fuel Comb - Commercial/Institutional - Kerosene	2.300	GAL	0.330	LB	GAL	0.000	0.000	0.000	0.000
2104004000	Fuel Comb - Residential - Distillate Oil	810.659	GAL	0.700	LB	GAL	0.284	0.001	0.284	0.001
2104006000	Fuel Comb - Residential - Natural Gas	3130.944	FT3	5.500	LB	FT3	8.610	0.024	8.610	0.024
2104007000	Fuel Comb - Residential - LPG	98.825	BBL	21.911	LB	BBL	1.083	0.003	1.083	0.003
2104008100	Fuel Comb - Residential - Wood Fireplace: General	3631.231	TON	18.900	LB	TON	34.315	0.094	35.727	0.098
2104008210	Fuel Comb - Residential - Woodstove: fireplace inserts; non-EPA certified	2253.650	TON	53.000	LB	TON	59.722	0.164	56.207	0.154
2104008220	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; non-catalytic	953.711	TON	12.000	LB	TON	5.722	0.016	6.314	0.017
2104008230	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; catalytic	306.968	TON	15.000	LB	TON	2.302	0.006	2.540	0.007
2104008310	Fuel Comb - Residential - Woodstove: freestanding, non-EPA certified	9883.757	TON	53.000	LB	TON	261.92	0.718	258.93	0.709
2104008320	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, non-catalytic	3122.506	TON	12.000	LB	TON	18.735	0.051	20.672	0.057
2104008330	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, catalytic	3455.334	TON	15.000	LB	TON	25.915	0.071	28.595	0.078
2104008400	Fuel Comb - Residential - Woodstove: pellet-fired, general (freestanding or FP insert)	723.091	TON	0.041	LB	TON	0.015	0.000	0.020	0.000
2104008510	Fuel Comb - Residential - Wood Furnace: Indoor, cordwood-fired, non-EPA certified	4241.937	TON	11.700	LB	TON	25.027	0.069	26.500	0.073

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2104008610	Fuel Comb - Residential - Wood Hydronic heater: outdoor	1340.050	TON	67.400	LB	TON	45.160	0.124	45.160	0.124
2104008700	Fuel Comb - Residential - Outdoor wood burning device, NEC (fire-pits, chimneys, etc)	6085.485	TON	18.900	LB	TON	57.508	0.158	59.874	0.164
2104009000	Fuel Comb - Residential - Firelog	24.795	TON	39.560	LB	TON	0.490	0.001	.5106	0.001
2104011000	Fuel Comb - Residential - Kerosene	0.413	BBL	28.350	LB	BBL	0.006	0.000	0.006	0.000
2302002100	Commercial Cooking:Conveyorized Charbroiling	115507.000	EACH	0.012	LB	EACH	0.908	0.002	0.908	0.002
2302002200	Commercial Cooking:Under-fired Charbroiling	115507.000	EACH	0.041	LB	EACH	2.497	0.007	2.497	0.007
2302003000	Commercial Cooking:Deep Fat Frying	115507.000	EACH	0.013	LB	EACH	0.432	0.001	0.432	0.001
2302003100	Commercial Cooking:Flat Griddle Frying	115507.000	EACH	0.006	LB	EACH	0.335	0.001	0.335	0.001
2302003200	Commercial Cooking:Clamshell Griddle Frying	115507.000	EACH	0.000	LB	EACH	0.011	0.000	0.011	0.000
2401001000	Solvent - Non-Industrial Surface Coating:Architectural Coatings	115507.000	EACH	2.340	LB	EACH	135.14	0.370	135.14	0.370
2401005000	Solvent - Industrial Surface Coating & Solvent Use:Auto Refinishing	753.999	EACH	94.690	LB	EACH	35.698	0.098	35.698	0.098
2401008000	Solvent - Industrial Surface Coating & Solvent Use:Traffic Markings	1570.098	EACH	0.290	LB	EACH	0.228	0.001	0.228	0.001
2401015000	Solvent - Industrial Surface Coating & Solvent Use:Factory Finished Wood	169.000	EACH	48.070	LB	EACH	4.062	0.011	4.062	0.011
2401020000	Solvent - Industrial Surface Coating & Solvent Use:Wood Furniture	330.659	EACH	524.125	LB	EACH	86.653	0.237	86.653	0.237
2401025000	Solvent - Industrial Surface Coating & Solvent Use:Metal Furniture	391.067	EACH	887.803	LB	EACH	173.59	0.476	173.59	0.476
2401055000	Solvent - Industrial Surface Coating & Solvent Use:Machinery and Equipment	633.285	EACH	51.640	LB	EACH	16.351	0.045	16.351	0.045
2401065000	Solvent - Industrial Surface Coating & Solvent Use:Electronic and Other Electrical	62.000	EACH	31.920	LB	EACH	0.984	0.003	0.984	0.003
2401070000	Solvent - Industrial Surface Coating & Solvent Use:Motor Vehicles	62.000	EACH	194.000	LB	EACH	6.014	0.016	6.014	0.016
2401075000	Solvent - Industrial Surface Coating & Solvent Use:Aircraft	8.000	EACH	12.980	LB	EACH	0.049	0.000	0.049	0.000
2401090000	Solvent - Industrial Surface Coating & Solvent Use:Miscellaneous Manufacturing	638.523	EACH	92.421	LB	EACH	29.506	0.081	29.506	0.081
2401100000	Solvent - Industrial Surface Coating & Solvent Use:Industrial Maintenance Coatings	115507.000	EACH	0.603	LB	EACH	34.832	0.095	34.832	0.095
2401200000	Solvent - Industrial Surface Coating & Solvent Use:Other Special Purpose Coatings	115507.000	EACH	0.064	LB	EACH	3.696	0.010	3.696	0.010
2415000000	Solvent - Degreasing	8472.649	EACH	37.000	LB	EACH	156.74	0.429	156.74	0.429
2420000000	Solvent - Dry Cleaning	0.024	EACH	10.000	LB	EACH	0.000	0.000	0.000	0.000
2425000000	Solvent - Graphic Arts	381.206	EACH	201.000	LB	EACH	38.311	0.105	38.311	0.105
2460100000	Solvent - Consumer & Commercial Solvent Use:All Personal Care Products	115507.000	EACH	1.900	LB	EACH	109.73	0.301	109.73	0.301
2460200000	Solvent - Consumer & Commercial Solvent Use:All Household Products	115507.000	EACH	1.800	LB	EACH	103.96	0.285	103.96	0.285

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2460400000	Solvent - Consumer & Commercial Solvent Use:All Automotive Aftermarket Products	115507.000	EACH	1.360	LB	EACH	78.545	0.215	78.545	0.215
2460500000	Solvent - Consumer & Commercial Solvent Use:All Coatings and Related Products	115507.000	EACH	0.950	LB	EACH	54.866	0.150	54.866	0.150
2460600000	Solvent - Consumer & Commercial Solvent Use:All Adhesives and Sealants	115507.000	EACH	0.570	LB	EACH	32.919	0.090	32.919	0.090
2460800000	Solvent - Consumer & Commercial Solvent Use:All FIFRA Related Products	115507.000	EACH	1.780	LB	EACH	102.80	0.282	102.80	0.282
2460900000	Solvent - Consumer & Commercial Solvent Use:Other Miscellaneous Products	115507.000	EACH	0.070	LB	EACH	4.043	0.011	4.043	0.011
2461021000	Solvent - Consumer & Commercial Solvent Use:Cutback Asphalt	925.645	BBL	88.000	LB	BBL	40.728	0.112	40.728	0.112
2461022000	Solvent - Consumer & Commercial Solvent Use:Emulsified Asphalt	2139.451	BBL	9.200	LB	BBL	9.841	0.027	9.841	0.027
2461850000	Solvent - Consumer & Commercial Solvent Use:Pesticide Application: Agricultural	215599.813	LB	0.751	LB	LB	81.004	0.222	81.004	0.222
2501011011	Residential Portable Fuel Containers (PFCs):Permeation						14.998	0.041	8.136	0.022
2501011012	Residential Portable Fuel Containers (PFCs):Evaporation (includes Diurnal losses)						29.284	0.080	14.466	0.040
2501011013	Residential Portable Fuel Containers (PFCs):Spillage During Transport						4.275	0.012	1.832	0.005
2501011014	Residential Portable Fuel Containers (PFCs):Refilling at the Pump - Vapor Displacement						1.270	0.003	0.901	0.002
2501011015	Residential Portable Fuel Containers (PFCs):Refilling at the Pump - Spillage						0.118	0.000	0.0506	0.000
2501012011	Commercial Portable Fuel Containers (PFCs):Permeation						0.479	0.001	.2799	0.001
2501012012	Commercial Portable Fuel Containers (PFCs):Evaporation (includes Diurnal losses)						0.935	0.003	0.462	0.001
2501012013	Commercial Portable Fuel Containers (PFCs):Spillage During Transport						5.832	0.016	2.499	0.007
2501012014	Commercial Portable Fuel Containers (PFCs):Refilling at the Pump - Vapor Displacement						2.448	0.007	2.076	0.006
2501012015	Commercial Portable Fuel Containers (PFCs):Refilling at the Pump - Spillage						0.227	0.001	0.0973	0.000
2501050120	Bulk Gasoline Terminals:All Evaporative Losses	65.000	EACH	5485.385	LB	EACH	178.27	0.488	173.72	0.476
2501055120	Bulk Gasoline Plants:All Evaporative Losses	65.000	EACH	1722.169	LB	EACH	55.971	0.153	54.540	0.149
2501060051	Gas Stations:Gasoline Service Stations: Stage 1 Submerged Filling	0.000	GAL				0.000	0.000	0.000	0.000
2501060052	Gas Stations:Gasoline Service Stations: Stage 1 Splash Filling	0.000	GAL				0.000	0.000	0.000	0.000
2501060053	Gas Stations:Gasoline Service Stations:Stage 1 Balanced Submerged Filling	48919.712	GAL	0.872	LB	GAL	21.324	0.058	20.86	0.057
2501060201	Gas Stations:Gasoline Service Stations:Underground Tank Breathing and Emptying	48919.711	GAL	1.000	LB	GAL	24.460	0.067	23.927	0.065
2501080050	Gas Stations:Airports : Aviation Gasoline:Stage 1 Total	5180.760	GAL	6.156	LB	GAL	15.946	0.044	15.946	0.044
2501080100	Gas Stations:Airports : Aviation Gasoline:Stage 2 Total	121.683	GAL	13.600	LB	GAL	0.827	0.002	0.827	0.002

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2505030120	Industrial Processes - Gasoline Storage and Transfer:Truck	53322.485	GAL	0.060	LB	GAL	1.600	0.004	1.600	0.004
2505040120	Industrial Processes - Gasoline Storage and Transfer:Pipeline	65.000	EACH	1880.363	LB	EACH	61.112	0.167	59.551	0.163
2610000100	Waste Disposal:Yard Waste - Leaf Species Unspecified	74.221	TON	28.000	LB	TON	1.039	0.003	1.039	0.003
2610000400	Waste Disposal:Yard Waste - Brush Species Unspecified	74.221	TON	19.000	LB	TON	0.705	0.002	.705	0.002
2610000500	Waste Disposal:Land Clearing Debris	2335.017	TON	11.600	LB	TON	13.543	0.037	13.543	0.037
2610030000	Waste Disposal:Household Waste	3244.574	TON	8.560	LB	TON	13.887	0.038	13.887	0.038
2801500000	Fires - Agricultural Field Burning						0.001	0.000	0.001	0.000
2810060100	Miscellaneous Non-Industrial NEC: Human Cremation	31.500	TON	0.083	LB	TON	0.001	0.000	0.001	0.000
Sheboygan County : 2011 & 2015 Total VOC Emissions							2346.676	6.429	2312.98	6.337

Note: Activity data and emission factors for source categories associated with portable fuel containers (PFCs) and agricultural field burning are not listed in the table. The emission estimates for these categories were directly adopted from EPA estimates in 2011 NEI v2.

Table B-2

Sheboygan County Nonattainment Area NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2102002000	Fuel Comb - Industrial Boilers, ICes - Bituminous/Subbituminous Coal	0.000	TON	11.000	LB	TON	0.000	0.000	0.000	0.000
2102004001	Fuel Comb - Industrial Boilers, ICes - Distillate Oil:All Boiler Types	81.098	GAL	20.000	LB	GAL	0.811	0.002	0.811	0.002
2102004002	Fuel Comb - Industrial Boilers, ICes - Distillate Oil: All IC Engine Types	14.961	GAL	604.000	LB	GAL	4.518	0.012	4.518	0.012
2102005000	Fuel Comb - Industrial Boilers, ICes - Residual Oil	17.100	GAL	55.000	LB	GAL	0.470	0.001	0.470	0.001
2102006000	Fuel Comb - Industrial Boilers, ICes - Natural Gas	977.185	FT3	100.000	LB	FT3	48.859	0.134	48.58	0.133
2102007000	Fuel Comb - Industrial Boilers, ICes - LPG	18.054	GAL	14.230	LB	GAL	0.128	0.000	0.128	0.000
2102008000	Fuel Comb - Industrial Boilers, ICes - Wood	0.000	TON	0.220	LB	TON	0.000	0.000	0.000	0.000
2102011000	Fuel Comb - Industrial Boilers, ICes - Kerosene	4.018	GAL	19.290	LB	GAL	0.039	0.000	0.039	0.000
2103002000	Fuel Comb - Commercial/Institutional - Bituminous/Subbituminous Coal	999.956	TON	11.000	LB	TON	5.500	0.015	5.500	0.015
2103004001	Fuel Comb - Commercial/Institutional - Distillate Oil:All Boiler Types	292.303	GAL	20.000	LB	GAL	2.923	0.008	2.923	0.008
2103004002	Fuel Comb - Commercial/Institutional - Distillate Oil: All IC Engine Types	327.931	GAL	604.000	LB	GAL	99.035	0.271	99.035	0.271
2103005000	Fuel Comb - Commercial/Institutional - Residual Oil	0.000	GAL	55.000	LB	GAL	0.000	0.000	0.000	0.000
2103006000	Fuel Comb - Commercial/Institutional - Natural Gas	1391.737	FT3	100.000	LB	FT3	69.587	0.191	69.189	0.190
2103007000	Fuel Comb - Commercial/Institutional - LPG	800.384	GAL	14.230	LB	GAL	5.695	0.016	5.695	0.016
2103008000	Fuel Comb - Commercial/Institutional - Wood	422.109	TON	0.220	LB	TON	0.046	0.000	0.046	0.000
2103011000	Fuel Comb - Commercial/Institutional - Kerosene	0.001	GAL	19.290	LB	GAL	0.000	0.000	0.000	0.000
2104004000	Fuel Comb - Residential - Distillate Oil	810.659	GAL	18.000	LB	GAL	7.296	0.020	7.296	0.020
2104006000	Fuel Comb - Residential - Natural Gas	3130.944	FT3	94.000	LB	FT3	147.154	0.403	147.154	0.403
2104007000	Fuel Comb - Residential - LPG	104.936	BBL	562.800	LB	BBL	29.529	0.081	29.529	0.081
2104008100	Fuel Comb - Residential - Wood Fireplace: General	3631.231	TON	2.600	LB	TON	4.721	0.013	4.915	0.013
2104008210	Fuel Comb - Residential - Woodstove: fireplace inserts; non-EPA certified	2253.650	TON	2.800	LB	TON	3.155	0.009	2.969	0.008
2104008220	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; non-catalytic	953.711	TON	2.280	LB	TON	1.087	0.003	1.199	0.003
2104008230	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; catalytic	306.968	TON	2.000	LB	TON	0.307	0.001	0.339	0.001
2104008310	Fuel Comb - Residential - Woodstove: freestanding, non-EPA certified	9883.757	TON	2.800	LB	TON	13.837	0.038	13.679	0.037
2104008320	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, non-catalytic	3122.506	TON	2.280	LB	TON	3.560	0.010	3.927	0.011
2104008330	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, catalytic	3455.334	TON	2.000	LB	TON	3.455	0.009	3.812	0.010
2104008400	Fuel Comb - Residential - Woodstove: pellet-fired, general (freestanding or FP insert)	723.091	TON	3.800	LB	TON	1.374	0.004	1.880	0.005

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 (tpy)	2011 (tpsd)	2015 (tpy)	2015 (tpsd)
2104008510	Fuel Comb – Residential – Wood Furnace: Indoor, cordwood-fired, non-EPA certified	4339.333	TON	1.800	LB	TON	3.905	0.011	4.135	0.011
2104008610	Fuel Comb - Residential - Wood Hydronic heater: outdoor	1370.822	TON	1.800	LB	TON	1.234	0.003	1.234	0.003
2104008700	Fuel Comb - Residential - Outdoor Wood Burning Device, NEC (fire-pits, chimeas, etc)	6085.485	TON	2.600	LB	TON	7.911	0.022	8.237	0.026
2104009000	Fuel Comb - Residential – Firelog	24.795	TON	7.684	LB	TON	0.095	0.000	0.099	0.000
2104011000	Fuel Comb - Residential – Kerosene	0.413	BBL	729.000	LB	BBL	0.151	0.000	0.151	0.000
2610000100	Waste Disposal:Yard Waste - Leaf Species Unspecified	74.221	TON	6.200	LB	TON	0.230	0.001	0.230	0.001
2610000400	Waste Disposal:Yard Waste - Brush Species Unspecified	74.221	TON	5.000	LB	TON	0.186	0.001	0.186	0.001
2610000500	Waste Disposal:Land Clearing Debris	2335.017	TON	5.000	LB	TON	5.838	0.016	5.838	0.016
2610030000	Waste Disposal:Household Waste	3244.574	TON	6.000	LB	TON	9.734	0.027	9.734	0.027
2801500000	Fires - Agricultural Field Burning						0.000	0.000	0.000	0.000
2810060100	Miscellaneous Non-Industrial NEC: Human Cremation	31.500	TON	23.810	LB	TON	0.375	0.001	0.375	0.001
Sheboygan County : 2011 Total NO_x Emissions							482.745	1.323	483.854	1.326

Note: Activity data and emission factors for source categories associated with agricultural field burning are not listed in the table. The emission estimates for this category were directly adopted from EPA estimates in 2011 NEI v2.

Table B-3

Kenosha County Nonattainment Area VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2102002000	Fuel Comb - Industrial Boilers, ICes - Bituminous/Subbituminous Coal	0.000	TON	0.050	LB	TON	0.000	0.000	0.000	0.000
2102004001	Fuel Comb - Industrial Boilers, ICes - Distillate Oil	47.704	GAL	0.200	LB	GAL	0.004	0.000	0.005	0.000
2102005000	Fuel Comb - Industrial Boilers, ICes - Residual Oil	10.059	GAL	0.280	LB	GAL	0.001	0.000	0.001	0.000
2102006000	Fuel Comb - Industrial Boilers, ICes - Natural Gas	574.807	FT3	5.500	LB	FT3	1.221	0.003	1.581	0.004
2102007000	Fuel Comb - Industrial Boilers, ICes - LPG	10.620	GAL	0.520	LB	GAL	0.002	0.000	0.003	0.003
2102008000	Fuel Comb - Industrial Boilers, ICes - Wood	0.000	TON	0.017	LB	TON	0.000	0.000	0.000	0.000
2102011000	Fuel Comb - Industrial Boilers, ICes - Kerosene	2.363	GAL	0.190	LB	GAL	0.000	0.000	0.000	0.000
2103002000	Fuel Comb - Commercial/Institutional - Bituminous Coal	1100.657	TON	0.050	LB	TON	0.021	0.000	0.028	0.000
2103004001	Fuel Comb - Commercial/Institutional - Distillate Oil	321.740	GAL	0.340	LB	GAL	0.042	0.000	0.055	0.000
2103005000	Fuel Comb - Commercial/Institutional - Residual Oil	0.000	GAL	1.130	LB	GAL	0.000	0.000	0.000	0.000
2103006000	Fuel Comb - Commercial/Institutional - Natural Gas	1531.893	FT3	5.500	LB	FT3	3.254	0.009	4.213	0.016
2103007000	Fuel Comb - Commercial/Institutional - LPG	880.987	GAL	0.520	LB	GAL	0.177	0.000	0.229	0.000
2103008000	Fuel Comb - Commercial/Institutional - Wood	464.618	TON	0.017	LB	TON	0.003	0.000	0.004	0.000
2103011000	Fuel Comb - Commercial/Institutional - Kerosene	2.532	GAL	0.330	LB	GAL	0.000	0.000	0.000	0.000
2104004000	Fuel Comb - Residential - Distillate Oil	495.515	GAL	0.700	LB	GAL	0.134	0.000	0.173	0.000
2104006000	Fuel Comb - Residential - Natural Gas	4516.649	FT3	5.500	LB	FT3	9.595	0.026	12.421	0.034
2104007000	Fuel Comb - Residential - LPG	26.541	BBL	21.911	LB	BBL	0.225	0.001	0.291	0.001
2104008100	Fuel Comb - Residential - Wood Fireplace:General	5114.380	TON	18.900	LB	TON	37.337	0.102	48.331	0.132
2104008210	Fuel Comb - Residential - Woodstove: fireplace inserts; non-EPA certified	3178.591	TON	53.000	LB	TON	65.073	0.178	84.233	0.231
2104008220	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; non-catalytic	1341.643	TON	12.000	LB	TON	6.219	0.017	8.050	0.022
2104008230	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; catalytic	434.332	TON	15.000	LB	TON	2.517	0.007	3.257	0.009
2104008310	Fuel Comb - Residential - Woodstove: freestanding, non-EPA certified	13921.172	TON	53.000	LB	TON	284.996	0.781	368.911	1.011
2104008320	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, non-catalytic	4398.555	TON	12.000	LB	TON	20.388	0.056	26.391	0.072
2104008330	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, catalytic	4867.652	TON	15.000	LB	TON	28.203	0.077	36.507	0.100
2104008400	Fuel Comb - Residential - Woodstove: pellet-fired, general (freestanding or FP insert)	968.152	TON	0.041	LB	TON	0.015	0.000	0.020	0.000
2104008510	Fuel Comb - Residential - Wood Furnace: Indoor, cordwood-fired, non-EPA certified	0.000	TON	11.700	LB	TON	0.000	0.000	0.000	0.000
2104008610	Fuel Comb - Residential - Wood Hydronic heater: outdoor	0.000	TON	67.400	LB	TON	0.000	0.000	0.000	0.000

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2104008700	Fuel Comb - Residential - Outdoor wood burning device, NEC (fire-pits, chimneas, etc)	8571.181	TON	18.900	LB	TON	62.574	0.171	80.998	0.222
2104009000	Fuel Comb - Residential – Firelog	33.611	TON	39.560	LB	TON	0.514	0.001	0.665	0.002
2104011000	Fuel Comb - Residential – Kerosene	0.252	BBL	28.350	LB	BBL	0.003	0.000	0.004	0.000
2302002100	Commercial Cooking:Conveyorized Charbroiling	166426.000	EACH	0.012	LB	EACH	1.026	0.003	1.328	0.004
2302002200	Commercial Cooking:Under-fired Charbroiling	166426.000	EACH	0.041	LB	EACH	2.840	0.008	3.676	0.010
2302003000	Commercial Cooking:Deep Fat Fying	166426.000	EACH	0.013	LB	EACH	0.495	0.001	0.641	0.002
2302003100	Commercial Cooking:Flat Griddle Frying	166426.000	EACH	0.006	LB	EACH	0.372	0.001	0.481	0.001
2302003200	Commercial Cooking:Clamshell Griddle Frying	166426.000	EACH	0.000	LB	EACH	0.018	0.000	0.023	0.000
2401001000	Solvent - Non-Industrial Surface Coating:Architectural Coatings	166426.000	EACH	2.340	LB	EACH	150.427	0.412	194.719	0.533
2401005000	Solvent - Industrial Surface Coating & Solvent Use:Auto Refinishing	660.000	EACH	94.690	LB	EACH	24.140	0.066	31.248	0.086
2401008000	Solvent - Industrial Surface Coating & Solvent Use:Traffic Markings	1100.942	MILE	0.290	LB	MILE	0.123	0.000	0.160	0.000
2401015000	Solvent - Industrial Surface Coating & Solvent Use:Factory Finished Wood	49.945	EACH	48.070	LB	EACH	0.927	0.003	1.200	0.003
2401020000	Solvent - Industrial Surface Coating & Solvent Use:Wood Furniture	165.706	EACH	524.125	LB	EACH	33.548	0.092	43.425	0.119
2401025000	Solvent - Industrial Surface Coating & Solvent Use:Metal Furniture	24.243	EACH	887.803	LB	EACH	8.314	0.023	10.761	0.029
2401055000	Solvent - Industrial Surface Coating & Solvent Use:Machinery and Equipment	36.000	EACH	51.640	LB	EACH	0.718	0.002	0.930	0.003
2401065000	Solvent - Industrial Surface Coating & Solvent Use:Electronic and Other Electrical	180.000	EACH	31.920	LB	EACH	2.217	0.006	2.869	0.008
2401070000	Solvent - Industrial Surface Coating & Solvent Use:Motor Vehicles	713.559	EACH	194.000	LB	EACH	53.747	0.147	69.572	0.191
2401080000	Solvent - Industrial Surface Coating & Solvent Use:Marine	10.050	EACH	225.399	LB	EACH	0.875	0.002	1.133	0.003
2401090000	Solvent - Industrial Surface Coating & Solvent Use:Miscellaneous Manufacturing	79.360	EACH	92.421	LB	EACH	2.833	0.008	3.667	0.010
2401100000	Solvent - Industrial Surface Coating & Solvent Use:Industrial Maintenance Coatings	166426.000	EACH	0.603	LB	EACH	38.772	0.106	50.188	0.138
2401200000	Solvent - Industrial Surface Coating & Solvent Use:Other Special Purpose Coatings	166426.000	EACH	0.064	LB	EACH	4.114	0.011	5.326	0.146
2415000000	Solvent – Degreasing	6122.213	EACH	37.000	LB	EACH	102.515	0.281	132.700	0.364
2420000000	Solvent - Dry Cleaning	54.000	EACH	10.000	LB	EACH	0.000	0.000	0.000	0.000
2425000000	Solvent - Graphic Arts	606.417	EACH	201.000	LB	EACH	43.319	0.119	56.074	0.154
2460100000	Solvent - Consumer & Commercial Solvent Use:All Personal Care Products	166426.000	EACH	1.900	LB	EACH	122.141	0.335	158.105	0.433
2460200000	Solvent - Consumer & Commercial Solvent Use:All Household Products	166426.000	EACH	1.800	LB	EACH	115.713	0.317	149.784	0.410
2460400000	Solvent - Consumer & Commercial Solvent Use:All Automotive Aftermarket Products	166426.000	EACH	1.360	LB	EACH	87.427	0.240	113.170	0.310

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2460500000	Solvent - Consumer & Commercial Solvent Use:All Coatings and Related Products	166426.000	EACH	0.950	LB	EACH	61.071	0.167	79.052	0.217
2460600000	Solvent - Consumer & Commercial Solvent Use:All Adhesives and Sealants	166426.000	EACH	0.570	LB	EACH	36.642	0.100	47.431	0.130
2460800000	Solvent - Consumer & Commercial Solvent Use:All FIFRA Related Products	166426.000	EACH	1.780	LB	EACH	114.427	0.313	148.119	0.406
2460900000	Solvent - Consumer & Commercial Solvent Use:Other Miscellaneous Products	166426.000	EACH	0.070	LB	EACH	4.500	0.012	5.825	0.016
2461021000	Solvent - Consumer & Commercial Solvent Use:Cutback Asphalt	985.327	BBL	88.000	LB	BBL	33.493	0.092	43.354	0.119
2461022000	Solvent - Consumer & Commercial Solvent Use:Emulsified Asphalt	2277.395	BBL	9.200	LB	BBL	8.093	0.022	10.476	0.029
2461850000	Solvent - Consumer & Commercial Solvent Use:Pesticide Application: Agricultural	115308.178	LB	0.751	LB	LB	33.468	0.092	43.323	0.119
2501011011	Residential Portable Fuel Containers (PFCs):Permeation						13.458	0.037	17.421	0.048
2501011012	Residential Portable Fuel Containers (PFCs):Evaporation (includes Diurnal losses)						26.277	0.072	34.014	0.093
2501011013	Residential Portable Fuel Containers (PFCs):Spillage During Transport						3.836	0.011	4.966	0.014
2501011014	Residential Portable Fuel Containers (PFCs):Refilling at the Pump - Vapor Displacement						1.140	0.003	1.475	0.004
2501011015	Residential Portable Fuel Containers (PFCs):Refilling at the Pump - Spillage						0.106	0.000	0.137	0.000
2501012011	Commercial Portable Fuel Containers (PFCs):Permeation						0.430	0.001	0.556	0.002
2501012012	Commercial Portable Fuel Containers (PFCs):Evaporation (includes Diurnal losses)						0.839	0.002	1.086	0.003
2501012013	Commercial Portable Fuel Containers (PFCs):Spillage During Transport						5.233	0.014	6.774	0.019
2501012014	Commercial Portable Fuel Containers (PFCs):Refilling at the Pump - Vapor Displacement						2.196	0.006	2.843	0.008
2501012015	Commercial Portable Fuel Containers (PFCs):Refilling at the Pump - Spillage						0.204	0.001	0.264	0.001
2501050120	Bulk Gasoline Terminals:All Evaporative Losses	6.014	EACH	5485.390	LB	EACH	12.743	0.035	16.495	0.045
2501055120	Bulk Gasoline Plants:All Evaporative Losses	6.014	EACH	1722.167	LB	EACH	4.001	0.011	5.179	0.014
2501060051	Gas Stations:Gasoline Service Stations: Stage 1 Submerged Filling	0.000	GAL				0.000	0.000	0.000	0.000
2501060052	Gas Stations:Gasoline Service Stations: Stage 1 Splash Filling	0.000	GAL				0.000	0.000	0.000	0.000
2501060053	Gas Stations:Gasoline Service Stations:Stage 1 Balanced Submerged Filling	52729.952	GAL	0.732	LB	GAL	14.913	0.041	19.304	0.053
2501060201	Gas Stations:Gasoline Service Stations:Underground Tank Breathing and Emptying	52729.952	GAL	1.000	LB	GAL	20.368	0.056	26.365	0.072

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2501080050	Gas Stations:Airports : Aviation Gasoline:Stage 1 Total	7802.968	GAL	6.156	LB	GAL	18.554	0.051	24.017	0.066
2501080100	Gas Stations:Airports : Aviation Gasoline:Stage 2 Total	183.272	GAL	13.600	LB	GAL	0.963	0.003	1.246	0.003
2505030120	Industrial Processes - Gasoline Storage and Transfer:Truck	57475.647	GAL	0.060	LB	GAL	1.332	0.004	1.724	0.005
2505040120	Industrial Processes - Gasoline Storage and Transfer:Pipeline	6.014	EACH	1880.363	LB	EACH	4.368	0.012	5.654	0.015
2630020000	Waste Disposal:Public Owned Wastewater Treatment	7341.371	GAL	0.850	LB	GAL	2.410	0.007	3.120	0.009
2801500000	Fires - Agricultural Field Burning						0.000	0.000	0.000	0.000
2810060100	Miscellaneous Non-Industrial NEC: Human Cremation	45.276	TON	0.083	LB	TON	0.001	0.000	0.002	0.000
Kenosha (Partial) County : 2011 Total VOC Emissions							1744.206	4.779	1721.454	4.716

Note: Activity data and emission factors for source categories associated with portable fuel containers (PFCs) and agricultural field burning are not listed in the table. The emission estimates for these categories were directly adopted from EPA estimates in 2011 NEI v2.

Table B-4

Kenosha County Nonattainment Area NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2102002000	Fuel Comb - Industrial Boilers, ICEs - Bituminous/Subbituminous Coal	0.000	TON	11.000	LB	TON	0.000	0.000	0.000	0.000
2102004001	Fuel Comb - Industrial Boilers, ICEs - Distillate Oil: All Boiler Types	47.704	GAL	20.000	LB	GAL	0.369	0.001	0.369	0.001
2102004002	Fuel Comb - Industrial Boilers, ICEs - Distillate Oil: All IC Engine Types	8.801	GAL	604.000	LB	GAL	2.053	0.006	2.055	0.006
2102005000	Fuel Comb - Industrial Boilers, ICEs - Residual Oil	10.059	GAL	55.000	LB	GAL	0.214	0.001	0.214	0.001
2102006000	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	574.807	FT3	100.000	LB	FT3	22.203	0.061	22.100	0.061
2102007000	Fuel Comb - Industrial Boilers, ICEs - LPG	10.620	GAL	14.230	LB	GAL	0.058	0.000	0.058	0.000
2102008000	Fuel Comb - Industrial Boilers, ICEs - Wood	0.000	TON	0.220	LB	TON	0.000	0.000	0.000	0.000
2102011000	Fuel Comb - Industrial Boilers, ICEs - Kerosene	2.363	GAL	19.290	LB	GAL	0.018	0.000	0.018	0.000
2103002000	Fuel Comb - Commercial/Institutional - Bituminous/Subbituminous Coal	1100.657	TON	11.000	LB	TON	4.677	0.013	4.682	0.013
2103004001	Fuel Comb - Commercial/Institutional - Distillate Oil: All Boiler Types	321.740	GAL	20.000	LB	GAL	2.486	0.007	2.488	0.007
2103004002	Fuel Comb - Commercial/Institutional - Distillate Oil: All IC Engine Types	360.955	GAL	604.000	LB	GAL	84.212	0.231	84.304	0.231
2103005000	Fuel Comb - Commercial/Institutional - Residual Oil	0.000	GAL	55.000	LB	GAL	0.000	0.000	0.000	0.000
2103006000	Fuel Comb - Commercial/Institutional - Natural Gas	1531.893	FT3	100.000	LB	FT3	59.172	0.162	58.898	0.161
2103007000	Fuel Comb - Commercial/Institutional - LPG	880.987	GAL	14.230	LB	GAL	4.842	0.013	4.848	0.013
2103008000	Fuel Comb - Commercial/Institutional - Wood	464.618	TON	0.220	LB	TON	0.039	0.000	0.039	0.000
2103011000	Fuel Comb - Commercial/Institutional - Kerosene	2.532	GAL	19.290	LB	GAL	0.000	0.000	0.000	0.000
2104004000	Fuel Comb - Residential - Distillate Oil	495.515	GAL	18.000	LB	GAL	3.445	0.009	3.449	0.009
2104006000	Fuel Comb - Residential - Natural Gas	4516.649	FT3	94.000	LB	FT3	163.995	0.449	164.174	0.449
2104007000	Fuel Comb - Residential - LPG	26.541	BBL	562.800	LB	BBL	6.127	0.017	6.133	0.017
2104008100	Fuel Comb - Residential - Wood Fireplace: General	5114.380	TON	2.600	LB	TON	5.136	0.014	5.354	0.015
2104008210	Fuel Comb - Residential - Woodstove: fireplace inserts; non-EPA certified	3178.591	TON	2.800	LB	TON	3.438	0.009	3.239	0.009
2104008220	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; non-catalytic	1341.643	TON	2.280	LB	TON	1.182	0.003	1.305	0.004
2104008230	Fuel Comb - Residential - Woodstove: fireplace inserts; EPA certified; catalytic	434.332	TON	2.000	LB	TON	0.336	0.001	0.371	0.001
2104008310	Fuel Comb - Residential - Woodstove: freestanding, non-EPA certified	13921.172	TON	2.800	LB	TON	15.056	0.041	14.901	0.041
2104008320	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, non-catalytic	4398.555	TON	2.280	LB	TON	3.874	0.011	4.279	0.012

SCC	Category Description	Activity	Activity Unit	Factor Numeric Value	Factor Unit Numerator	Factor Unit Denominator	2011 Partial County (tpy)	2011 Partial County (tpsd)	2015 Partial County (tpy)	2015 Partial County (tpsd)
2104008330	Fuel Comb - Residential - Woodstove: freestanding, EPA certified, catalytic	4867.652	TON	2.000	LB	TON	3.760	0.010	4.154	0.011
2104008400	Fuel Comb - Residential - Woodstove: pellet-fired, general (freestanding or FP insert)	968.152	TON	3.800	LB	TON	1.421	0.004	1.947	0.005
2104008510	Fuel Comb - Residential - Wood Furnace: Indoor, cordwood-fired, non-EPA certified	0.000	TON	1.800	LB	TON	0.000	0.000	0.000	0.000
2104008610	Fuel Comb - Residential - Wood Hydronic heater: outdoor	0.000	TON	1.800	LB	TON	0.000	0.000	0.000	0.000
2104008700	Fuel Comb - Residential - Outdoor Wood Burning Device, NEC (fire-pits, chimeas, etc)	8571.181	TON	2.600	LB	TON	8.608	0.024	8.972	0.026
2104009000	Fuel Comb - Residential – Firelog	33.611	TON	7.684	LB	TON	0.100	0.000	0.104	0.000
2104011000	Fuel Comb - Residential – Kerosene	0.252	BBL	729.000	LB	BBL	0.071	0.000	0.071	0.000
2801500000	Fires - Agricultural Field Burning						0.000	0.000	0.000	0.000
2810060100	Miscellaneous Non-Industrial NEC: Human Cremation	45.276	TON	23.810	LB	TON	0.416	0.001	0.416	0.001
Kenosha (Partial) County : 2011 Total NO_x Emissions							397.308	1.089	398.942	1.093

Note: Activity data and emission factors for source categories associated with agricultural field burning are not listed in the table. The emission estimates for this category were directly adopted from EPA estimates in 2011 NEI v2.

Appendix C: 2011 and 2015 On-Road Mobile Source Emissions

Table C-1

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2011 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0001	0.0006	0.0347	0.0353
Motorcycle	Gasoline	Rural Restricted	0.0015	0.0015	0.0005	0.0020
Motorcycle	Gasoline	Rural Unrestricted	0.0033	0.0044	0.0020	0.0065
Motorcycle	Gasoline	Urban Restricted	0.0002	0.0002	0.0001	0.0003
Motorcycle	Gasoline	Urban Unrestricted	0.0063	0.0126	0.0071	0.0196
Passenger Car	Gasoline	Off-Network	0.1981	0.2129	0.2581	0.4709
Passenger Car	Gasoline	Rural Restricted	0.1653	0.0317	0.0090	0.0407
Passenger Car	Gasoline	Rural Unrestricted	0.1099	0.0248	0.0118	0.0366
Passenger Car	Gasoline	Urban Restricted	0.0205	0.0040	0.0012	0.0052
Passenger Car	Gasoline	Urban Unrestricted	0.2786	0.0743	0.0407	0.1150
Passenger Car	Diesel	Off-Network	0.0009	0.0018	0.0000	0.0018
Passenger Car	Diesel	Rural Restricted	0.0007	0.0003	0.0000	0.0003
Passenger Car	Diesel	Rural Unrestricted	0.0005	0.0003	0.0000	0.0003
Passenger Car	Diesel	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Car	Diesel	Urban Unrestricted	0.0012	0.0009	0.0000	0.0009
Passenger Car	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.3141	0.3648	0.1690	0.5338
Passenger Truck	Gasoline	Rural Restricted	0.3284	0.0605	0.0066	0.0671
Passenger Truck	Gasoline	Rural Unrestricted	0.1987	0.0433	0.0086	0.0519
Passenger Truck	Gasoline	Urban Restricted	0.0405	0.0074	0.0009	0.0083
Passenger Truck	Gasoline	Urban Unrestricted	0.4772	0.1265	0.0299	0.1564
Passenger Truck	Diesel	Off-Network	0.0047	0.0035	0.0000	0.0035
Passenger Truck	Diesel	Rural Restricted	0.0138	0.0024	0.0000	0.0024
Passenger Truck	Diesel	Rural Unrestricted	0.0111	0.0023	0.0000	0.0023
Passenger Truck	Diesel	Urban Restricted	0.0017	0.0003	0.0000	0.0003
Passenger Truck	Diesel	Urban Unrestricted	0.0330	0.0069	0.0000	0.0069
Passenger Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.1498	0.1742	0.0968	0.2710
Light Commercial Truck	Gasoline	Rural Restricted	0.1398	0.0289	0.0039	0.0328
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0917	0.0246	0.0051	0.0297
Light Commercial Truck	Gasoline	Urban Restricted	0.0174	0.0036	0.0005	0.0041
Light Commercial Truck	Gasoline	Urban Unrestricted	0.2210	0.0752	0.0177	0.0930
Light Commercial Truck	Diesel	Off-Network	0.0060	0.0050	0.0000	0.0050
Light Commercial Truck	Diesel	Rural Restricted	0.0164	0.0032	0.0000	0.0032
Light Commercial Truck	Diesel	Rural Unrestricted	0.0136	0.0032	0.0000	0.0032
Light Commercial Truck	Diesel	Urban Restricted	0.0021	0.0004	0.0000	0.0004
Light Commercial Truck	Diesel	Urban Unrestricted	0.0419	0.0097	0.0000	0.0097

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0092	0.0005	0.0000	0.0005
Intercity Bus	Diesel	Rural Unrestricted	0.0087	0.0007	0.0000	0.0007
Intercity Bus	Diesel	Urban Restricted	0.0012	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Urban Unrestricted	0.0231	0.0020	0.0000	0.0020
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0025	0.0001	0.0000	0.0001
Transit Bus	Diesel	Rural Unrestricted	0.0018	0.0001	0.0000	0.0001
Transit Bus	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000
Transit Bus	Diesel	Urban Unrestricted	0.0044	0.0004	0.0000	0.0004
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0001	0.0002	0.0001	0.0002
School Bus	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0001
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0046	0.0004	0.0000	0.0004
School Bus	Diesel	Rural Unrestricted	0.0034	0.0006	0.0000	0.0006
School Bus	Diesel	Urban Restricted	0.0006	0.0001	0.0000	0.0001
School Bus	Diesel	Urban Unrestricted	0.0083	0.0016	0.0000	0.0016
Refuse Truck	Gasoline	Off-Network	0.0000	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0074	0.0003	0.0000	0.0003
Refuse Truck	Diesel	Rural Unrestricted	0.0051	0.0003	0.0000	0.0003
Refuse Truck	Diesel	Urban Restricted	0.0009	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Urban Unrestricted	0.0137	0.0010	0.0000	0.0010
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0216	0.0207	0.0184	0.0392
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0258	0.0044	0.0004	0.0048
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0180	0.0047	0.0005	0.0052
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0033	0.0006	0.0000	0.0006
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0434	0.0176	0.0015	0.0191
Single Unit Short-haul Truck	Diesel	Off-Network	0.0060	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.1092	0.0125	0.0000	0.0125
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0841	0.0139	0.0000	0.0139
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0138	0.0017	0.0000	0.0017

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.2477	0.0417	0.0000	0.0417
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0020	0.0020	0.0018	0.0038
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0033	0.0006	0.0001	0.0007
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0023	0.0007	0.0001	0.0007
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0004	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0053	0.0024	0.0003	0.0027
Single Unit Long-haul Truck	Diesel	Off-Network	0.0006	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0201	0.0027	0.0000	0.0027
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0159	0.0030	0.0000	0.0030
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0026	0.0004	0.0000	0.0004
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0468	0.0089	0.0000	0.0089
Motor Home	Gasoline	Off-Network	0.0012	0.0016	0.0039	0.0055
Motor Home	Gasoline	Rural Restricted	0.0027	0.0006	0.0001	0.0007
Motor Home	Gasoline	Rural Unrestricted	0.0017	0.0005	0.0001	0.0006
Motor Home	Gasoline	Urban Restricted	0.0003	0.0001	0.0000	0.0001
Motor Home	Gasoline	Urban Unrestricted	0.0041	0.0019	0.0002	0.0021
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0024	0.0002	0.0000	0.0002
Motor Home	Diesel	Rural Unrestricted	0.0015	0.0003	0.0000	0.0003
Motor Home	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000
Motor Home	Diesel	Urban Unrestricted	0.0045	0.0008	0.0000	0.0008
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Rural Restricted	0.1266	0.0057	0.0000	0.0057
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0234	0.0015	0.0000	0.0015
Combination Short-haul Truck	Diesel	Urban Restricted	0.0161	0.0007	0.0000	0.0007
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0613	0.0043	0.0000	0.0043
Combination Long-haul Truck	Diesel	Off-Network	0.4676	0.1225	0.0000	0.1225
Combination Long-haul Truck	Diesel	Rural Restricted	0.4081	0.0188	0.0000	0.0188
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0790	0.0049	0.0000	0.0049
Combination Long-haul Truck	Diesel	Urban Restricted	0.0519	0.0024	0.0000	0.0024
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.2075	0.0143	0.0000	0.0143
ALL	ALL	ALL	5.1397	1.6457	0.7316	2.3773
Motorcycle	ALL	ALL	0.0113	0.0193	0.0443	0.0637
Passenger Car	ALL	ALL	0.7759	0.3511	0.3207	0.6718
Passenger Truck	ALL	ALL	1.4233	0.6180	0.2150	0.8330
Light Commercial Truck	ALL	ALL	0.6997	0.3281	0.1241	0.4522
Intercity Bus	ALL	ALL	0.0422	0.0032	0.0000	0.0032
Transit Bus	ALL	ALL	0.0096	0.0008	0.0000	0.0008
School Bus	ALL	ALL	0.0171	0.0029	0.0001	0.0030
Refuse Truck	ALL	ALL	0.0277	0.0019	0.0000	0.0020
Single Unit Short-haul Truck	ALL	ALL	0.5730	0.1182	0.0208	0.1391
Single Unit Long-haul Truck	ALL	ALL	0.0993	0.0208	0.0022	0.0230
Motor Home	ALL	ALL	0.0189	0.0061	0.0043	0.0104
Combination Short-haul Truck	ALL	ALL	0.2274	0.0123	0.0000	0.0123
Combination Long-haul Truck	ALL	ALL	1.2143	0.1630	0.0000	0.1630
ALL	ALL	ALL	5.1397	1.6457	0.7316	2.3773

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
ALL	Gasoline	ALL	2.8986	1.3352	0.7316	2.0668
ALL	Diesel	ALL	2.2402	0.3103	0.0000	0.3103
ALL	CNG	ALL	0.0007	0.0001	0.0000	0.0001
ALL	Ethanol (E-85)	ALL	0.0002	0.0000	0.0000	0.0000
ALL	ALL	ALL	5.1397	1.6457	0.7316	2.3773
ALL	ALL	Off-Network	1.1731	0.9104	0.5828	1.4932
ALL	ALL	Rural Restricted	1.3883	0.1756	0.0205	0.1961
ALL	ALL	Rural Unrestricted	0.6740	0.1342	0.0282	0.1624
ALL	ALL	Urban Restricted	0.1743	0.0222	0.0027	0.0249
ALL	ALL	Urban Unrestricted	1.7300	0.4032	0.0975	0.5007
ALL	ALL	ALL	5.1397	1.6457	0.7316	2.3773

Table C-2

Sheboygan Whole County Nonattainment Area 2011 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0001	0.0005	0.0368	0.0374
Motorcycle	Gasoline	Rural Restricted	0.0028	0.0028	0.0011	0.0039
Motorcycle	Gasoline	Rural Unrestricted	0.0068	0.0086	0.0050	0.0136
Motorcycle	Gasoline	Urban Restricted	0.0024	0.0025	0.0011	0.0037
Motorcycle	Gasoline	Urban Unrestricted	0.0022	0.0032	0.0019	0.0051
Passenger Car	Gasoline	Off-Network	0.2954	0.3218	0.4013	0.7231
Passenger Car	Gasoline	Rural Restricted	0.1813	0.0352	0.0110	0.0463
Passenger Car	Gasoline	Rural Unrestricted	0.3079	0.0716	0.0368	0.1085
Passenger Car	Gasoline	Urban Restricted	0.1700	0.0345	0.0134	0.0479
Passenger Car	Gasoline	Urban Unrestricted	0.1440	0.0358	0.0193	0.0551
Passenger Car	Diesel	Off-Network	0.0012	0.0026	0.0000	0.0026
Passenger Car	Diesel	Rural Restricted	0.0008	0.0004	0.0000	0.0004
Passenger Car	Diesel	Rural Unrestricted	0.0013	0.0008	0.0000	0.0008
Passenger Car	Diesel	Urban Restricted	0.0007	0.0004	0.0000	0.0004
Passenger Car	Diesel	Urban Unrestricted	0.0006	0.0004	0.0000	0.0004
Passenger Car	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.3064	0.3596	0.1745	0.5341
Passenger Truck	Gasoline	Rural Restricted	0.2277	0.0422	0.0051	0.0473
Passenger Truck	Gasoline	Rural Unrestricted	0.4056	0.0897	0.0196	0.1094
Passenger Truck	Gasoline	Urban Restricted	0.1873	0.0357	0.0056	0.0413
Passenger Truck	Gasoline	Urban Unrestricted	0.1515	0.0362	0.0083	0.0446
Passenger Truck	Diesel	Off-Network	0.0044	0.0033	0.0000	0.0033
Passenger Truck	Diesel	Rural Restricted	0.0092	0.0016	0.0000	0.0016
Passenger Truck	Diesel	Rural Unrestricted	0.0219	0.0046	0.0000	0.0046
Passenger Truck	Diesel	Urban Restricted	0.0082	0.0016	0.0000	0.0016
Passenger Truck	Diesel	Urban Unrestricted	0.0086	0.0019	0.0000	0.0019
Passenger Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.1065	0.1263	0.0671	0.1934
Light Commercial Truck	Gasoline	Rural Restricted	0.0721	0.0151	0.0022	0.0174
Light Commercial Truck	Gasoline	Rural Unrestricted	0.1374	0.0378	0.0086	0.0464
Light Commercial Truck	Gasoline	Urban Restricted	0.0605	0.0135	0.0024	0.0159
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0510	0.0155	0.0036	0.0191
Light Commercial Truck	Diesel	Off-Network	0.0040	0.0034	0.0000	0.0034
Light Commercial Truck	Diesel	Rural Restricted	0.0081	0.0016	0.0000	0.0016
Light Commercial Truck	Diesel	Rural Unrestricted	0.0196	0.0047	0.0000	0.0047
Light Commercial Truck	Diesel	Urban Restricted	0.0072	0.0016	0.0000	0.0016
Light Commercial Truck	Diesel	Urban Unrestricted	0.0076	0.0019	0.0000	0.0019
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0035	0.0002	0.0000	0.0002
Intercity Bus	Diesel	Rural Unrestricted	0.0058	0.0004	0.0000	0.0004
Intercity Bus	Diesel	Urban Restricted	0.0041	0.0002	0.0000	0.0002
Intercity Bus	Diesel	Urban Unrestricted	0.0030	0.0002	0.0000	0.0002
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0063	0.0003	0.0000	0.0003
Transit Bus	Diesel	Rural Unrestricted	0.0081	0.0006	0.0000	0.0006
Transit Bus	Diesel	Urban Restricted	0.0073	0.0005	0.0000	0.0005
Transit Bus	Diesel	Urban Unrestricted	0.0041	0.0003	0.0000	0.0003
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0005	0.0001	0.0000	0.0001
Transit Bus	CNG	Rural Unrestricted	0.0006	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Restricted	0.0006	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0001	0.0001	0.0000	0.0001
School Bus	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0001	0.0001	0.0000	0.0001
School Bus	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0084	0.0008	0.0000	0.0008
School Bus	Diesel	Rural Unrestricted	0.0109	0.0018	0.0000	0.0018
School Bus	Diesel	Urban Restricted	0.0096	0.0012	0.0000	0.0012
School Bus	Diesel	Urban Unrestricted	0.0057	0.0010	0.0000	0.0010
Refuse Truck	Gasoline	Off-Network	0.0001	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0003	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Unrestricted	0.0003	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Urban Restricted	0.0002	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0134	0.0006	0.0000	0.0006
Refuse Truck	Diesel	Rural Unrestricted	0.0130	0.0008	0.0000	0.0008
Refuse Truck	Diesel	Urban Restricted	0.0105	0.0006	0.0000	0.0006
Refuse Truck	Diesel	Urban Unrestricted	0.0047	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0141	0.0136	0.0109	0.0246
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0146	0.0024	0.0002	0.0026
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0235	0.0059	0.0006	0.0065
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0175	0.0031	0.0003	0.0034
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0103	0.0031	0.0003	0.0034
Single Unit Short-haul Truck	Diesel	Off-Network	0.0037	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0605	0.0071	0.0000	0.0071
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.1044	0.0170	0.0000	0.0170
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0686	0.0094	0.0000	0.0094
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.0493	0.0080	0.0000	0.0080
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0004	0.0004	0.0003	0.0008
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0006	0.0001	0.0000	0.0001

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0010	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0007	0.0001	0.0000	0.0002
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0004	0.0001	0.0000	0.0002
Single Unit Long-haul Truck	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0035	0.0005	0.0000	0.0005
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0062	0.0012	0.0000	0.0012
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0040	0.0006	0.0000	0.0006
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0029	0.0005	0.0000	0.0005
Motor Home	Gasoline	Off-Network	0.0008	0.0011	0.0031	0.0042
Motor Home	Gasoline	Rural Restricted	0.0013	0.0003	0.0000	0.0003
Motor Home	Gasoline	Rural Unrestricted	0.0024	0.0007	0.0001	0.0008
Motor Home	Gasoline	Urban Restricted	0.0018	0.0004	0.0001	0.0005
Motor Home	Gasoline	Urban Unrestricted	0.0012	0.0004	0.0001	0.0005
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0011	0.0001	0.0000	0.0001
Motor Home	Diesel	Rural Unrestricted	0.0021	0.0004	0.0000	0.0004
Motor Home	Diesel	Urban Restricted	0.0014	0.0002	0.0000	0.0002
Motor Home	Diesel	Urban Unrestricted	0.0011	0.0002	0.0000	0.0002
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.1313	0.0055	0.0000	0.0055
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.1250	0.0077	0.0000	0.0077
Combination Short-haul Truck	Diesel	Urban Restricted	0.1016	0.0051	0.0000	0.0051
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0444	0.0028	0.0000	0.0028
Combination Long-haul Truck	Diesel	Off-Network	0.4202	0.1073	0.0000	0.1073
Combination Long-haul Truck	Diesel	Rural Restricted	0.3782	0.0162	0.0000	0.0162
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.3563	0.0216	0.0000	0.0216
Combination Long-haul Truck	Diesel	Urban Restricted	0.2904	0.0146	0.0000	0.0146
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.1230	0.0077	0.0000	0.0077
ALL	ALL	ALL	5.4143	1.5958	0.8414	2.4372
Motorcycle	ALL	ALL	0.0143	0.0177	0.0460	0.0637
Passenger Car	ALL	ALL	1.1032	0.5036	0.4819	0.9854
Passenger Truck	ALL	ALL	1.3308	0.5763	0.2132	0.7895
Light Commercial Truck	ALL	ALL	0.4740	0.2212	0.0841	0.3053
Intercity Bus	ALL	ALL	0.0164	0.0011	0.0000	0.0011
Transit Bus	ALL	ALL	0.0279	0.0021	0.0000	0.0021
School Bus	ALL	ALL	0.0351	0.0050	0.0001	0.0050
Refuse Truck	ALL	ALL	0.0424	0.0026	0.0001	0.0026
Single Unit Short-haul Truck	ALL	ALL	0.3665	0.0700	0.0124	0.0824
Single Unit Long-haul Truck	ALL	ALL	0.0198	0.0039	0.0004	0.0043
Motor Home	ALL	ALL	0.0133	0.0038	0.0033	0.0071
Combination Short-haul Truck	ALL	ALL	0.4024	0.0213	0.0000	0.0213
Combination Long-haul Truck	ALL	ALL	1.5682	0.1673	0.0000	0.1673
ALL	ALL	ALL	5.4143	1.5958	0.8414	2.4372
ALL	Gasoline	ALL	2.9110	1.3210	0.8414	2.1624
ALL	Diesel	ALL	2.5011	0.2744	0.0000	0.2744

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
ALL	CNG	ALL	0.0020	0.0003	0.0000	0.0003
ALL	Ethanol (E-85)	ALL	0.0002	0.0000	0.0000	0.0000
ALL	ALL	ALL	5.4143	1.5958	0.8414	2.4372
ALL	ALL	Off-Network	1.1577	0.9405	0.6943	1.6348
ALL	ALL	Rural Restricted	1.1256	0.1330	0.0198	0.1528
ALL	ALL	Rural Unrestricted	1.5602	0.2764	0.0708	0.3473
ALL	ALL	Urban Restricted	0.9548	0.1260	0.0229	0.1489
ALL	ALL	Urban Unrestricted	0.6161	0.1198	0.0336	0.1534
ALL	ALL	ALL	5.4143	1.5958	0.8414	2.4372

Table C-3

Sheboygan Proposed Sub-County Nonattainment Area 2011 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0001	0.0003	0.0214	0.0217
Motorcycle	Gasoline	Rural Restricted	0.0027	0.0026	0.0010	0.0037
Motorcycle	Gasoline	Rural Unrestricted	0.0022	0.0029	0.0017	0.0046
Motorcycle	Gasoline	Urban Restricted	0.0013	0.0013	0.0005	0.0018
Motorcycle	Gasoline	Urban Unrestricted	0.0020	0.0030	0.0018	0.0049
Passenger Car	Gasoline	Off-Network	0.1714	0.1867	0.2332	0.4199
Passenger Car	Gasoline	Rural Restricted	0.1668	0.0323	0.0098	0.0421
Passenger Car	Gasoline	Rural Unrestricted	0.0976	0.0232	0.0121	0.0353
Passenger Car	Gasoline	Urban Restricted	0.0895	0.0178	0.0060	0.0237
Passenger Car	Gasoline	Urban Unrestricted	0.1284	0.0320	0.0173	0.0493
Passenger Car	Diesel	Off-Network	0.0007	0.0015	0.0000	0.0015
Passenger Car	Diesel	Rural Restricted	0.0007	0.0003	0.0000	0.0003
Passenger Car	Diesel	Rural Unrestricted	0.0004	0.0003	0.0000	0.0003
Passenger Car	Diesel	Urban Restricted	0.0004	0.0002	0.0000	0.0002
Passenger Car	Diesel	Urban Unrestricted	0.0005	0.0004	0.0000	0.0004
Passenger Car	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.1778	0.2086	0.1014	0.3101
Passenger Truck	Gasoline	Rural Restricted	0.2170	0.0401	0.0047	0.0448
Passenger Truck	Gasoline	Rural Unrestricted	0.1317	0.0299	0.0067	0.0366
Passenger Truck	Gasoline	Urban Restricted	0.1040	0.0196	0.0026	0.0221
Passenger Truck	Gasoline	Urban Unrestricted	0.1393	0.0334	0.0077	0.0411
Passenger Truck	Diesel	Off-Network	0.0025	0.0019	0.0000	0.0019
Passenger Truck	Diesel	Rural Restricted	0.0086	0.0015	0.0000	0.0015
Passenger Truck	Diesel	Rural Unrestricted	0.0073	0.0015	0.0000	0.0015
Passenger Truck	Diesel	Urban Restricted	0.0043	0.0008	0.0000	0.0008
Passenger Truck	Diesel	Urban Unrestricted	0.0079	0.0017	0.0000	0.0017
Passenger Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.0618	0.0733	0.0390	0.1123
Light Commercial Truck	Gasoline	Rural Restricted	0.0684	0.0142	0.0021	0.0163
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0446	0.0127	0.0029	0.0156
Light Commercial Truck	Gasoline	Urban Restricted	0.0329	0.0071	0.0011	0.0082
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0469	0.0143	0.0034	0.0176
Light Commercial Truck	Diesel	Off-Network	0.0023	0.0020	0.0000	0.0020
Light Commercial Truck	Diesel	Rural Restricted	0.0076	0.0015	0.0000	0.0015
Light Commercial Truck	Diesel	Rural Unrestricted	0.0065	0.0016	0.0000	0.0016
Light Commercial Truck	Diesel	Urban Restricted	0.0038	0.0008	0.0000	0.0008
Light Commercial Truck	Diesel	Urban Unrestricted	0.0070	0.0017	0.0000	0.0017
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0034	0.0002	0.0000	0.0002
Intercity Bus	Diesel	Rural Unrestricted	0.0020	0.0002	0.0000	0.0002
Intercity Bus	Diesel	Urban Restricted	0.0025	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Urban Unrestricted	0.0028	0.0002	0.0000	0.0002
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0060	0.0003	0.0000	0.0003
Transit Bus	Diesel	Rural Unrestricted	0.0028	0.0002	0.0000	0.0002
Transit Bus	Diesel	Urban Restricted	0.0045	0.0003	0.0000	0.0003
Transit Bus	Diesel	Urban Unrestricted	0.0039	0.0003	0.0000	0.0003
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0005	0.0001	0.0000	0.0001
Transit Bus	CNG	Rural Unrestricted	0.0002	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Restricted	0.0004	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0000	0.0001	0.0000	0.0001
School Bus	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0081	0.0007	0.0000	0.0007
School Bus	Diesel	Rural Unrestricted	0.0038	0.0006	0.0000	0.0006
School Bus	Diesel	Urban Restricted	0.0060	0.0006	0.0000	0.0006
School Bus	Diesel	Urban Unrestricted	0.0054	0.0009	0.0000	0.0009
Refuse Truck	Gasoline	Off-Network	0.0000	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0003	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0124	0.0005	0.0000	0.0005
Refuse Truck	Diesel	Rural Unrestricted	0.0044	0.0003	0.0000	0.0003
Refuse Truck	Diesel	Urban Restricted	0.0062	0.0003	0.0000	0.0003
Refuse Truck	Diesel	Urban Unrestricted	0.0042	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0090	0.0087	0.0070	0.0156
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0139	0.0023	0.0002	0.0025
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0082	0.0022	0.0002	0.0025
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0099	0.0018	0.0002	0.0019
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0096	0.0029	0.0003	0.0032
Single Unit Short-haul Truck	Diesel	Off-Network	0.0024	0.0002	0.0000	0.0002
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0582	0.0067	0.0000	0.0067
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0376	0.0061	0.0000	0.0061
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0409	0.0051	0.0000	0.0051
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.0462	0.0075	0.0000	0.0075
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0003	0.0003	0.0002	0.0005
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0006	0.0001	0.0000	0.0001

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0003	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0004	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0004	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0033	0.0005	0.0000	0.0005
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0022	0.0004	0.0000	0.0004
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0024	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0028	0.0005	0.0000	0.0005
Motor Home	Gasoline	Off-Network	0.0005	0.0007	0.0020	0.0027
Motor Home	Gasoline	Rural Restricted	0.0012	0.0003	0.0000	0.0003
Motor Home	Gasoline	Rural Unrestricted	0.0009	0.0003	0.0000	0.0003
Motor Home	Gasoline	Urban Restricted	0.0011	0.0003	0.0000	0.0003
Motor Home	Gasoline	Urban Unrestricted	0.0012	0.0004	0.0001	0.0005
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0011	0.0001	0.0000	0.0001
Motor Home	Diesel	Rural Unrestricted	0.0008	0.0001	0.0000	0.0001
Motor Home	Diesel	Urban Restricted	0.0009	0.0001	0.0000	0.0001
Motor Home	Diesel	Urban Unrestricted	0.0011	0.0002	0.0000	0.0002
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.1217	0.0050	0.0000	0.0050
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0426	0.0027	0.0000	0.0027
Combination Short-haul Truck	Diesel	Urban Restricted	0.0605	0.0027	0.0000	0.0027
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0401	0.0025	0.0000	0.0025
Combination Long-haul Truck	Diesel	Off-Network	0.3841	0.0981	0.0000	0.0981
Combination Long-haul Truck	Diesel	Rural Restricted	0.3477	0.0146	0.0000	0.0146
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.1207	0.0074	0.0000	0.0074
Combination Long-haul Truck	Diesel	Urban Restricted	0.1690	0.0077	0.0000	0.0077
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.1105	0.0069	0.0000	0.0069
ALL	ALL	ALL	3.4824	0.9756	0.4866	1.4622
Motorcycle	ALL	ALL	0.0082	0.0102	0.0265	0.0367
Passenger Car	ALL	ALL	0.6564	0.2947	0.2783	0.5729
Passenger Truck	ALL	ALL	0.8006	0.3391	0.1230	0.4621
Light Commercial Truck	ALL	ALL	0.2818	0.1290	0.0485	0.1775
Intercity Bus	ALL	ALL	0.0107	0.0007	0.0000	0.0007
Transit Bus	ALL	ALL	0.0186	0.0013	0.0000	0.0013
School Bus	ALL	ALL	0.0237	0.0031	0.0000	0.0031
Refuse Truck	ALL	ALL	0.0278	0.0016	0.0000	0.0016
Single Unit Short-haul Truck	ALL	ALL	0.2359	0.0434	0.0079	0.0513
Single Unit Long-haul Truck	ALL	ALL	0.0127	0.0024	0.0003	0.0027
Motor Home	ALL	ALL	0.0087	0.0024	0.0021	0.0046
Combination Short-haul Truck	ALL	ALL	0.2651	0.0130	0.0000	0.0130
Combination Long-haul Truck	ALL	ALL	1.1320	0.1348	0.0000	0.1348
ALL	ALL	ALL	3.4824	0.9756	0.4866	1.4622
ALL	Gasoline	ALL	1.7447	0.7762	0.4866	1.2628
ALL	Diesel	ALL	1.7362	0.1992	0.0000	0.1992

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2011			
			NO _x Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
ALL	CNG	ALL	0.0013	0.0002	0.0000	0.0002
ALL	Ethanol (E-85)	ALL	0.0001	0.0000	0.0000	0.0000
ALL	ALL	ALL	3.4824	0.9756	0.4866	1.4622
ALL	ALL	Off-Network	0.8132	0.5824	0.4042	0.9866
ALL	ALL	Rural Restricted	1.0506	0.1240	0.0178	0.1417
ALL	ALL	Rural Unrestricted	0.5170	0.0928	0.0237	0.1165
ALL	ALL	Urban Restricted	0.5409	0.0670	0.0104	0.0773
ALL	ALL	Urban Unrestricted	0.5607	0.1095	0.0305	0.1400
ALL	ALL	ALL	3.4824	0.9756	0.4866	1.4622

Table C-4

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2015 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0002	0.0010	0.0456	0.0466
Motorcycle	Gasoline	Rural Restricted	0.0018	0.0017	0.0006	0.0023
Motorcycle	Gasoline	Rural Unrestricted	0.0039	0.0045	0.0024	0.0069
Motorcycle	Gasoline	Urban Restricted	0.0002	0.0002	0.0001	0.0003
Motorcycle	Gasoline	Urban Unrestricted	0.0065	0.0112	0.0074	0.0185
Passenger Car	Gasoline	Off-Network	0.1588	0.1764	0.2124	0.3887
Passenger Car	Gasoline	Rural Restricted	0.1222	0.0227	0.0070	0.0296
Passenger Car	Gasoline	Rural Unrestricted	0.0753	0.0155	0.0081	0.0236
Passenger Car	Gasoline	Urban Restricted	0.0148	0.0027	0.0009	0.0036
Passenger Car	Gasoline	Urban Unrestricted	0.1636	0.0397	0.0245	0.0642
Passenger Car	Diesel	Off-Network	0.0008	0.0013	0.0000	0.0013
Passenger Car	Diesel	Rural Restricted	0.0007	0.0002	0.0000	0.0002
Passenger Car	Diesel	Rural Unrestricted	0.0004	0.0002	0.0000	0.0002
Passenger Car	Diesel	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Car	Diesel	Urban Unrestricted	0.0010	0.0005	0.0000	0.0005
Passenger Car	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.2273	0.2527	0.1455	0.3982
Passenger Truck	Gasoline	Rural Restricted	0.2545	0.0439	0.0056	0.0495
Passenger Truck	Gasoline	Rural Unrestricted	0.1385	0.0267	0.0064	0.0331
Passenger Truck	Gasoline	Urban Restricted	0.0307	0.0052	0.0007	0.0059
Passenger Truck	Gasoline	Urban Unrestricted	0.2856	0.0666	0.0196	0.0862
Passenger Truck	Diesel	Off-Network	0.0052	0.0023	0.0000	0.0023
Passenger Truck	Diesel	Rural Restricted	0.0128	0.0019	0.0000	0.0019
Passenger Truck	Diesel	Rural Unrestricted	0.0098	0.0017	0.0000	0.0017
Passenger Truck	Diesel	Urban Restricted	0.0016	0.0002	0.0000	0.0002
Passenger Truck	Diesel	Urban Unrestricted	0.0254	0.0043	0.0000	0.0043
Passenger Truck	Ethanol (E-85)	Off-Network	0.0002	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0002	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.1341	0.1598	0.0867	0.2465
Light Commercial Truck	Gasoline	Rural Restricted	0.1255	0.0245	0.0034	0.0279
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0760	0.0184	0.0040	0.0224
Light Commercial Truck	Gasoline	Urban Restricted	0.0152	0.0029	0.0004	0.0034
Light Commercial Truck	Gasoline	Urban Unrestricted	0.1588	0.0492	0.0120	0.0612
Light Commercial Truck	Diesel	Off-Network	0.0064	0.0046	0.0000	0.0046
Light Commercial Truck	Diesel	Rural Restricted	0.0154	0.0028	0.0000	0.0028
Light Commercial Truck	Diesel	Rural Unrestricted	0.0119	0.0025	0.0000	0.0025
Light Commercial Truck	Diesel	Urban Restricted	0.0019	0.0003	0.0000	0.0003
Light Commercial Truck	Diesel	Urban Unrestricted	0.0317	0.0067	0.0000	0.0067
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0001	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0001	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
				Total	Exhaust	Evaporative
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0087	0.0004	0.0000	0.0004
Intercity Bus	Diesel	Rural Unrestricted	0.0079	0.0005	0.0000	0.0005
Intercity Bus	Diesel	Urban Restricted	0.0011	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Urban Unrestricted	0.0181	0.0014	0.0000	0.0014
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0022	0.0001	0.0000	0.0001
Transit Bus	Diesel	Rural Unrestricted	0.0016	0.0001	0.0000	0.0001
Transit Bus	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000
Transit Bus	Diesel	Urban Unrestricted	0.0032	0.0003	0.0000	0.0003
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0001	0.0001	0.0000	0.0001
School Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0034	0.0004	0.0000	0.0004
School Bus	Diesel	Rural Unrestricted	0.0025	0.0004	0.0000	0.0004
School Bus	Diesel	Urban Restricted	0.0004	0.0000	0.0000	0.0000
School Bus	Diesel	Urban Unrestricted	0.0053	0.0010	0.0000	0.0010
Refuse Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0001	0.0000	0.0001
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0046	0.0002	0.0000	0.0002
Refuse Truck	Diesel	Rural Unrestricted	0.0030	0.0002	0.0000	0.0002
Refuse Truck	Diesel	Urban Restricted	0.0006	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Urban Unrestricted	0.0070	0.0005	0.0000	0.0005
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0184	0.0176	0.0173	0.0349
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0227	0.0034	0.0004	0.0038
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0152	0.0036	0.0004	0.0040
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0028	0.0004	0.0000	0.0005
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0315	0.0120	0.0011	0.0131
Single Unit Short-haul Truck	Diesel	Off-Network	0.0073	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0814	0.0091	0.0000	0.0091
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0604	0.0091	0.0000	0.0091
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0099	0.0011	0.0000	0.0011
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.1544	0.0239	0.0000	0.0239

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0018	0.0018	0.0020	0.0038
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0023	0.0004	0.0001	0.0005
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0015	0.0004	0.0001	0.0005
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0003	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0031	0.0014	0.0002	0.0016
Single Unit Long-haul Truck	Diesel	Off-Network	0.0008	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0168	0.0021	0.0000	0.0021
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0129	0.0021	0.0000	0.0021
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0021	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0331	0.0055	0.0000	0.0055
Motor Home	Gasoline	Off-Network	0.0010	0.0014	0.0037	0.0051
Motor Home	Gasoline	Rural Restricted	0.0028	0.0006	0.0001	0.0006
Motor Home	Gasoline	Rural Unrestricted	0.0017	0.0005	0.0001	0.0006
Motor Home	Gasoline	Urban Restricted	0.0003	0.0001	0.0000	0.0001
Motor Home	Gasoline	Urban Unrestricted	0.0035	0.0016	0.0002	0.0018
Motor Home	Diesel	Off-Network	0.0002	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0025	0.0003	0.0000	0.0003
Motor Home	Diesel	Rural Unrestricted	0.0015	0.0003	0.0000	0.0003
Motor Home	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000
Motor Home	Diesel	Urban Unrestricted	0.0039	0.0007	0.0000	0.0007
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Rural Restricted	0.0960	0.0042	0.0000	0.0042
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0168	0.0010	0.0000	0.0010
Combination Short-haul Truck	Diesel	Urban Restricted	0.0119	0.0005	0.0000	0.0005
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0385	0.0025	0.0000	0.0025
Combination Long-haul Truck	Diesel	Off-Network	0.5703	0.1324	0.0000	0.1324
Combination Long-haul Truck	Diesel	Rural Restricted	0.3887	0.0174	0.0000	0.0174
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0707	0.0041	0.0000	0.0041
Combination Long-haul Truck	Diesel	Urban Restricted	0.0480	0.0021	0.0000	0.0021
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.1621	0.0106	0.0000	0.0106
ALL	ALL	ALL	4.0900	1.2365	0.6188	1.8553
Motorcycle	ALL	ALL	0.0127	0.0185	0.0561	0.0746
Passenger Car	ALL	ALL	0.5379	0.2592	0.2528	0.5120
Passenger Truck	ALL	ALL	0.9920	0.4057	0.1777	0.5835
Light Commercial Truck	ALL	ALL	0.5770	0.2719	0.1065	0.3784
Intercity Bus	ALL	ALL	0.0358	0.0024	0.0000	0.0024
Transit Bus	ALL	ALL	0.0079	0.0007	0.0000	0.0007
School Bus	ALL	ALL	0.0119	0.0020	0.0000	0.0020
Refuse Truck	ALL	ALL	0.0154	0.0010	0.0000	0.0010
Single Unit Short-haul Truck	ALL	ALL	0.4039	0.0806	0.0192	0.0998
Single Unit Long-haul Truck	ALL	ALL	0.0745	0.0142	0.0024	0.0165
Motor Home	ALL	ALL	0.0177	0.0053	0.0040	0.0094
Combination Short-haul Truck	ALL	ALL	0.1632	0.0083	0.0000	0.0083
Combination Long-haul Truck	ALL	ALL	1.2398	0.1667	0.0000	0.1667
ALL	ALL	ALL	4.0900	1.2365	0.6188	1.8553

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
ALL	Gasoline	ALL	2.1030	0.9709	0.6188	1.5898
ALL	Diesel	ALL	1.9852	0.2651	0.0000	0.2651
ALL	CNG	ALL	0.0006	0.0001	0.0000	0.0001
ALL	Ethanol (E-85)	ALL	0.0011	0.0003	0.0000	0.0003
ALL	ALL	ALL	4.0900	1.2365	0.6188	1.8553
ALL	ALL	Off-Network	1.1329	0.7520	0.5132	1.2652
ALL	ALL	Rural Restricted	1.1656	0.1363	0.0170	0.1534
ALL	ALL	Rural Unrestricted	0.5119	0.0921	0.0214	0.1135
ALL	ALL	Urban Restricted	0.1425	0.0165	0.0021	0.0186
ALL	ALL	Urban Unrestricted	1.1370	0.2396	0.0651	0.3047
ALL	ALL	ALL	4.0900	1.2365	0.6188	1.8553
Safety Margin			7½%			7½%
Emissions Budget			4.397			1.994

Table C-5

Sheboygan Whole County Nonattainment Area 2015 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0001	0.0007	0.0389	0.0395
Motorcycle	Gasoline	Rural Restricted	0.0030	0.0026	0.0012	0.0038
Motorcycle	Gasoline	Rural Unrestricted	0.0067	0.0075	0.0052	0.0127
Motorcycle	Gasoline	Urban Restricted	0.0029	0.0026	0.0014	0.0040
Motorcycle	Gasoline	Urban Unrestricted	0.0023	0.0029	0.0021	0.0050
Passenger Car	Gasoline	Off-Network	0.2193	0.2406	0.3047	0.5452
Passenger Car	Gasoline	Rural Restricted	0.1138	0.0211	0.0067	0.0278
Passenger Car	Gasoline	Rural Unrestricted	0.1768	0.0378	0.0211	0.0589
Passenger Car	Gasoline	Urban Restricted	0.1159	0.0222	0.0091	0.0313
Passenger Car	Gasoline	Urban Unrestricted	0.0855	0.0194	0.0114	0.0307
Passenger Car	Diesel	Off-Network	0.0010	0.0017	0.0000	0.0017
Passenger Car	Diesel	Rural Restricted	0.0006	0.0002	0.0000	0.0002
Passenger Car	Diesel	Rural Unrestricted	0.0010	0.0004	0.0000	0.0004
Passenger Car	Diesel	Urban Restricted	0.0007	0.0002	0.0000	0.0002
Passenger Car	Diesel	Urban Unrestricted	0.0005	0.0002	0.0000	0.0002
Passenger Car	Ethanol (E-85)	Off-Network	0.0001	0.0001	0.0000	0.0001
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.1970	0.2157	0.1310	0.3467
Passenger Truck	Gasoline	Rural Restricted	0.1451	0.0246	0.0032	0.0278
Passenger Truck	Gasoline	Rural Unrestricted	0.2268	0.0443	0.0117	0.0560
Passenger Truck	Gasoline	Urban Restricted	0.1273	0.0220	0.0039	0.0259
Passenger Truck	Gasoline	Urban Unrestricted	0.0881	0.0184	0.0051	0.0235
Passenger Truck	Diesel	Off-Network	0.0042	0.0019	0.0000	0.0019
Passenger Truck	Diesel	Rural Restricted	0.0069	0.0010	0.0000	0.0010
Passenger Truck	Diesel	Rural Unrestricted	0.0158	0.0027	0.0000	0.0027
Passenger Truck	Diesel	Urban Restricted	0.0069	0.0011	0.0000	0.0011
Passenger Truck	Diesel	Urban Unrestricted	0.0065	0.0011	0.0000	0.0011
Passenger Truck	Ethanol (E-85)	Off-Network	0.0001	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0002	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.0867	0.1040	0.0548	0.1588
Light Commercial Truck	Gasoline	Rural Restricted	0.0542	0.0106	0.0015	0.0122
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0941	0.0238	0.0055	0.0293
Light Commercial Truck	Gasoline	Urban Restricted	0.0492	0.0102	0.0019	0.0121
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0364	0.0101	0.0024	0.0125
Light Commercial Truck	Diesel	Off-Network	0.0039	0.0028	0.0000	0.0028
Light Commercial Truck	Diesel	Rural Restricted	0.0063	0.0011	0.0000	0.0011
Light Commercial Truck	Diesel	Rural Unrestricted	0.0145	0.0031	0.0000	0.0031
Light Commercial Truck	Diesel	Urban Restricted	0.0062	0.0012	0.0000	0.0012
Light Commercial Truck	Diesel	Urban Unrestricted	0.0058	0.0013	0.0000	0.0013
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
				Total	Exhaust	Evaporative
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0028	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Rural Unrestricted	0.0043	0.0003	0.0000	0.0003
Intercity Bus	Diesel	Urban Restricted	0.0036	0.0002	0.0000	0.0002
Intercity Bus	Diesel	Urban Unrestricted	0.0024	0.0002	0.0000	0.0002
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0050	0.0003	0.0000	0.0003
Transit Bus	Diesel	Rural Unrestricted	0.0059	0.0004	0.0000	0.0004
Transit Bus	Diesel	Urban Restricted	0.0063	0.0004	0.0000	0.0004
Transit Bus	Diesel	Urban Unrestricted	0.0032	0.0002	0.0000	0.0002
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0004	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Unrestricted	0.0005	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Restricted	0.0006	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0001
School Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0054	0.0006	0.0000	0.0006
School Bus	Diesel	Rural Unrestricted	0.0067	0.0011	0.0000	0.0011
School Bus	Diesel	Urban Restricted	0.0070	0.0009	0.0000	0.0009
School Bus	Diesel	Urban Unrestricted	0.0037	0.0006	0.0000	0.0006
Refuse Truck	Gasoline	Off-Network	0.0001	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Rural Unrestricted	0.0002	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Urban Restricted	0.0002	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0094	0.0004	0.0000	0.0004
Refuse Truck	Diesel	Rural Unrestricted	0.0085	0.0005	0.0000	0.0005
Refuse Truck	Diesel	Urban Restricted	0.0081	0.0004	0.0000	0.0004
Refuse Truck	Diesel	Urban Unrestricted	0.0032	0.0002	0.0000	0.0002
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0133	0.0127	0.0114	0.0241
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0116	0.0017	0.0002	0.0019
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0172	0.0041	0.0005	0.0046
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0154	0.0025	0.0003	0.0028
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0079	0.0022	0.0002	0.0025
Single Unit Short-haul Truck	Diesel	Off-Network	0.0050	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0415	0.0045	0.0000	0.0045
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0670	0.0100	0.0000	0.0100
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0522	0.0066	0.0000	0.0066
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.0332	0.0049	0.0000	0.0049

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0004	0.0004	0.0004	0.0008
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0003	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0005	0.0001	0.0000	0.0002
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0005	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Diesel	Off-Network	0.0002	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0024	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0041	0.0007	0.0000	0.0007
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0031	0.0004	0.0000	0.0004
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0020	0.0003	0.0000	0.0003
Motor Home	Gasoline	Off-Network	0.0007	0.0010	0.0031	0.0041
Motor Home	Gasoline	Rural Restricted	0.0012	0.0002	0.0000	0.0003
Motor Home	Gasoline	Rural Unrestricted	0.0021	0.0006	0.0001	0.0007
Motor Home	Gasoline	Urban Restricted	0.0019	0.0004	0.0001	0.0005
Motor Home	Gasoline	Urban Unrestricted	0.0011	0.0004	0.0001	0.0004
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0010	0.0001	0.0000	0.0001
Motor Home	Diesel	Rural Unrestricted	0.0018	0.0003	0.0000	0.0003
Motor Home	Diesel	Urban Restricted	0.0015	0.0002	0.0000	0.0002
Motor Home	Diesel	Urban Unrestricted	0.0010	0.0002	0.0000	0.0002
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.0834	0.0033	0.0000	0.0033
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0743	0.0044	0.0000	0.0044
Combination Short-haul Truck	Diesel	Urban Restricted	0.0710	0.0034	0.0000	0.0034
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0279	0.0017	0.0000	0.0017
Combination Long-haul Truck	Diesel	Off-Network	0.4155	0.0940	0.0000	0.0940
Combination Long-haul Truck	Diesel	Rural Restricted	0.2937	0.0120	0.0000	0.0120
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.2573	0.0149	0.0000	0.0149
Combination Long-haul Truck	Diesel	Urban Restricted	0.2480	0.0120	0.0000	0.0120
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0940	0.0056	0.0000	0.0056
ALL	ALL	ALL	3.8568	1.0759	0.6393	1.7152
Motorcycle	ALL	ALL	0.0150	0.0162	0.0488	0.0650
Passenger Car	ALL	ALL	0.7153	0.3438	0.3530	0.6968
Passenger Truck	ALL	ALL	0.8252	0.3330	0.1550	0.4879
Light Commercial Truck	ALL	ALL	0.3576	0.1684	0.0661	0.2345
Intercity Bus	ALL	ALL	0.0132	0.0008	0.0000	0.0008
Transit Bus	ALL	ALL	0.0222	0.0017	0.0000	0.0017
School Bus	ALL	ALL	0.0230	0.0033	0.0000	0.0033
Refuse Truck	ALL	ALL	0.0297	0.0017	0.0001	0.0018
Single Unit Short-haul Truck	ALL	ALL	0.2642	0.0496	0.0125	0.0622
Single Unit Long-haul Truck	ALL	ALL	0.0138	0.0025	0.0005	0.0030
Motor Home	ALL	ALL	0.0125	0.0035	0.0033	0.0068
Combination Short-haul Truck	ALL	ALL	0.2566	0.0129	0.0000	0.0129
Combination Long-haul Truck	ALL	ALL	1.3084	0.1385	0.0000	0.1385
ALL	ALL	ALL	3.8568	1.0759	0.6393	1.7152

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
ALL	Gasoline	ALL	1.9065	0.8680	0.6393	1.5073
ALL	Diesel	ALL	1.9475	0.2074	0.0000	0.2074
ALL	CNG	ALL	0.0018	0.0003	0.0000	0.0003
ALL	Ethanol (E-85)	ALL	0.0010	0.0003	0.0000	0.0003
ALL	ALL	ALL	3.8568	1.0759	0.6393	1.7152
ALL	ALL	Off-Network	0.9477	0.6763	0.5442	1.2206
ALL	ALL	Rural Restricted	0.7887	0.0849	0.0129	0.0978
ALL	ALL	Rural Unrestricted	0.9864	0.1573	0.0441	0.2014
ALL	ALL	Urban Restricted	0.7285	0.0873	0.0167	0.1040
ALL	ALL	Urban Unrestricted	0.4054	0.0701	0.0213	0.0914
ALL	ALL	ALL	3.8568	1.0759	0.6393	1.7152
Safety Margin			15%			15%
Emissions Budget			4.435			1.972

Table C-6

Sheboygan Proposed Sub-County Nonattainment Area 2015 NO_x and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
				Total	Exhaust	Evaporative
Motorcycle	Gasoline	Off-Network	0.0001	0.0004	0.0225	0.0229
Motorcycle	Gasoline	Rural Restricted	0.0028	0.0024	0.0011	0.0035
Motorcycle	Gasoline	Rural Unrestricted	0.0023	0.0027	0.0019	0.0046
Motorcycle	Gasoline	Urban Restricted	0.0013	0.0012	0.0006	0.0017
Motorcycle	Gasoline	Urban Unrestricted	0.0021	0.0027	0.0020	0.0047
Passenger Car	Gasoline	Off-Network	0.1270	0.1393	0.1766	0.3159
Passenger Car	Gasoline	Rural Restricted	0.1041	0.0193	0.0059	0.0252
Passenger Car	Gasoline	Rural Unrestricted	0.0599	0.0131	0.0074	0.0205
Passenger Car	Gasoline	Urban Restricted	0.0557	0.0105	0.0036	0.0141
Passenger Car	Gasoline	Urban Unrestricted	0.0764	0.0173	0.0102	0.0275
Passenger Car	Diesel	Off-Network	0.0006	0.0010	0.0000	0.0010
Passenger Car	Diesel	Rural Restricted	0.0006	0.0002	0.0000	0.0002
Passenger Car	Diesel	Rural Unrestricted	0.0003	0.0001	0.0000	0.0001
Passenger Car	Diesel	Urban Restricted	0.0003	0.0001	0.0000	0.0001
Passenger Car	Diesel	Urban Unrestricted	0.0004	0.0002	0.0000	0.0002
Passenger Car	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.1140	0.1249	0.0760	0.2009
Passenger Truck	Gasoline	Rural Restricted	0.1371	0.0233	0.0029	0.0262
Passenger Truck	Gasoline	Rural Unrestricted	0.0783	0.0157	0.0042	0.0199
Passenger Truck	Gasoline	Urban Restricted	0.0651	0.0112	0.0016	0.0128
Passenger Truck	Gasoline	Urban Unrestricted	0.0807	0.0169	0.0047	0.0216
Passenger Truck	Diesel	Off-Network	0.0025	0.0011	0.0000	0.0011
Passenger Truck	Diesel	Rural Restricted	0.0064	0.0009	0.0000	0.0009
Passenger Truck	Diesel	Rural Unrestricted	0.0056	0.0009	0.0000	0.0009
Passenger Truck	Diesel	Urban Restricted	0.0032	0.0005	0.0000	0.0005
Passenger Truck	Diesel	Urban Unrestricted	0.0059	0.0010	0.0000	0.0010
Passenger Truck	Ethanol (E-85)	Off-Network	0.0001	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Light Commercial Truck	Gasoline	Off-Network	0.0502	0.0602	0.0317	0.0920
Light Commercial Truck	Gasoline	Rural Restricted	0.0508	0.0099	0.0014	0.0113
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0325	0.0085	0.0020	0.0105
Light Commercial Truck	Gasoline	Urban Restricted	0.0243	0.0049	0.0008	0.0056
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0333	0.0092	0.0022	0.0114
Light Commercial Truck	Diesel	Off-Network	0.0023	0.0016	0.0000	0.0016
Light Commercial Truck	Diesel	Rural Restricted	0.0059	0.0010	0.0000	0.0010
Light Commercial Truck	Diesel	Rural Unrestricted	0.0051	0.0011	0.0000	0.0011
Light Commercial Truck	Diesel	Urban Restricted	0.0029	0.0005	0.0000	0.0005
Light Commercial Truck	Diesel	Urban Unrestricted	0.0054	0.0012	0.0000	0.0012
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
				Total	Exhaust	Evaporative
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted	0.0027	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Rural Unrestricted	0.0017	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Urban Restricted	0.0020	0.0001	0.0000	0.0001
Intercity Bus	Diesel	Urban Unrestricted	0.0022	0.0002	0.0000	0.0002
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0047	0.0003	0.0000	0.0003
Transit Bus	Diesel	Rural Unrestricted	0.0022	0.0002	0.0000	0.0002
Transit Bus	Diesel	Urban Restricted	0.0035	0.0002	0.0000	0.0002
Transit Bus	Diesel	Urban Unrestricted	0.0030	0.0002	0.0000	0.0002
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0004	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Unrestricted	0.0002	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Restricted	0.0003	0.0000	0.0000	0.0000
Transit Bus	CNG	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0052	0.0005	0.0000	0.0005
School Bus	Diesel	Rural Unrestricted	0.0026	0.0004	0.0000	0.0004
School Bus	Diesel	Urban Restricted	0.0039	0.0004	0.0000	0.0004
School Bus	Diesel	Urban Unrestricted	0.0035	0.0006	0.0000	0.0006
Refuse Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck	Diesel	Rural Restricted	0.0086	0.0004	0.0000	0.0004
Refuse Truck	Diesel	Rural Unrestricted	0.0032	0.0002	0.0000	0.0002
Refuse Truck	Diesel	Urban Restricted	0.0043	0.0002	0.0000	0.0002
Refuse Truck	Diesel	Urban Unrestricted	0.0029	0.0002	0.0000	0.0002
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0084	0.0080	0.0072	0.0152
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0109	0.0016	0.0002	0.0018
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0065	0.0017	0.0002	0.0019
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0078	0.0013	0.0001	0.0014
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0074	0.0021	0.0002	0.0023
Single Unit Short-haul Truck	Diesel	Off-Network	0.0031	0.0002	0.0000	0.0002
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0393	0.0041	0.0000	0.0041
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0262	0.0039	0.0000	0.0039
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0278	0.0032	0.0000	0.0032
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.0310	0.0046	0.0000	0.0046

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
				Total	Exhaust	Evaporative
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0002	0.0002	0.0002	0.0005
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0003	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0002	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0002	0.0000	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0023	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0016	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0017	0.0002	0.0000	0.0002
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0019	0.0003	0.0000	0.0003
Motor Home	Gasoline	Off-Network	0.0005	0.0006	0.0020	0.0026
Motor Home	Gasoline	Rural Restricted	0.0011	0.0002	0.0000	0.0003
Motor Home	Gasoline	Rural Unrestricted	0.0008	0.0003	0.0000	0.0003
Motor Home	Gasoline	Urban Restricted	0.0010	0.0002	0.0000	0.0002
Motor Home	Gasoline	Urban Unrestricted	0.0010	0.0004	0.0000	0.0004
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home	Diesel	Rural Restricted	0.0010	0.0001	0.0000	0.0001
Motor Home	Diesel	Rural Unrestricted	0.0007	0.0001	0.0000	0.0001
Motor Home	Diesel	Urban Restricted	0.0009	0.0001	0.0000	0.0001
Motor Home	Diesel	Urban Unrestricted	0.0010	0.0002	0.0000	0.0002
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.0765	0.0030	0.0000	0.0030
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0277	0.0016	0.0000	0.0016
Combination Short-haul Truck	Diesel	Urban Restricted	0.0381	0.0016	0.0000	0.0016
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0253	0.0015	0.0000	0.0015
Combination Long-haul Truck	Diesel	Off-Network	0.3755	0.0849	0.0000	0.0849
Combination Long-haul Truck	Diesel	Rural Restricted	0.2671	0.0106	0.0000	0.0106
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0952	0.0056	0.0000	0.0056
Combination Long-haul Truck	Diesel	Urban Restricted	0.1302	0.0057	0.0000	0.0057
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0846	0.0051	0.0000	0.0051
ALL	ALL	ALL	2.5095	0.6640	0.3695	1.0335
Motorcycle	ALL	ALL	0.0086	0.0093	0.0281	0.0374
Passenger Car	ALL	ALL	0.4255	0.2011	0.2036	0.4048
Passenger Truck	ALL	ALL	0.4993	0.1965	0.0893	0.2859
Light Commercial Truck	ALL	ALL	0.2128	0.0983	0.0381	0.1363
Intercity Bus	ALL	ALL	0.0085	0.0005	0.0000	0.0005
Transit Bus	ALL	ALL	0.0146	0.0011	0.0000	0.0011
School Bus	ALL	ALL	0.0152	0.0020	0.0000	0.0020
Refuse Truck	ALL	ALL	0.0193	0.0011	0.0000	0.0011
Single Unit Short-haul Truck	ALL	ALL	0.1684	0.0307	0.0079	0.0386
Single Unit Long-haul Truck	ALL	ALL	0.0088	0.0016	0.0003	0.0018
Motor Home	ALL	ALL	0.0081	0.0022	0.0021	0.0043
Combination Short-haul Truck	ALL	ALL	0.1676	0.0078	0.0000	0.0078
Combination Long-haul Truck	ALL	ALL	0.9526	0.1119	0.0000	0.1119
ALL	ALL	ALL	2.5095	0.6640	0.3695	1.0335

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area – Year 2015			
			NO _x Emissions (tpswd)	VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total
ALL	Gasoline	ALL	1.1456	0.5105	0.3695	0.8800
ALL	Diesel	ALL	1.3621	0.1531	0.0000	0.1531
ALL	CNG	ALL	0.0012	0.0002	0.0000	0.0002
ALL	Ethanol (E-85)	ALL	0.0006	0.0002	0.0000	0.0002
ALL	ALL	ALL	2.5095	0.6640	0.3695	1.0335
ALL	ALL	Off-Network	0.6847	0.4229	0.3163	0.7392
ALL	ALL	Rural Restricted	0.7284	0.0783	0.0114	0.0898
ALL	ALL	Rural Unrestricted	0.3530	0.0566	0.0158	0.0724
ALL	ALL	Urban Restricted	0.3748	0.0422	0.0067	0.0488
ALL	ALL	Urban Unrestricted	0.3686	0.0640	0.0194	0.0834
ALL	ALL	ALL	2.5095	0.6640	0.3695	1.0335
Safety Margin			15%			15%
Emissions Budget			2.886			1.189

Table C-7

Kenosha Sub-County Nonattainment Area (I-94 and to the East) Vehicle Activity Data Output from the MOVES2014 Model

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Motorcycle	Gasoline	Off-Network	3,556	4,735		
Motorcycle	Gasoline	Rural Restricted			1,984	2,537
Motorcycle	Gasoline	Rural Unrestricted			5,066	6,134
Motorcycle	Gasoline	Urban Restricted			254	313
Motorcycle	Gasoline	Urban Unrestricted			11,874	12,571
Passenger Car	Gasoline	Off-Network	29,281	33,762		
Passenger Car	Gasoline	Rural Restricted			264,346	344,747
Passenger Car	Gasoline	Rural Unrestricted			207,366	251,962
Passenger Car	Gasoline	Urban Restricted			33,837	42,518
Passenger Car	Gasoline	Urban Unrestricted			485,583	516,457
Passenger Car	Diesel	Off-Network	124	213		
Passenger Car	Diesel	Rural Restricted			1,079	2,318
Passenger Car	Diesel	Rural Unrestricted			846	1,694
Passenger Car	Diesel	Urban Restricted			138	286
Passenger Car	Diesel	Urban Unrestricted			1,981	3,473
Passenger Car	Ethanol (E-85)	Off-Network	2	17		
Passenger Car	Ethanol (E-85)	Rural Restricted			23	195
Passenger Car	Ethanol (E-85)	Rural Unrestricted			18	142
Passenger Car	Ethanol (E-85)	Urban Restricted			3	24
Passenger Car	Ethanol (E-85)	Urban Unrestricted			43	292
Passenger Truck	Gasoline	Off-Network	31,223	37,328		
Passenger Truck	Gasoline	Rural Restricted			327,523	441,186
Passenger Truck	Gasoline	Rural Unrestricted			256,937	322,482
Passenger Truck	Gasoline	Urban Restricted			41,924	54,415
Passenger Truck	Gasoline	Urban Unrestricted			601,622	660,990
Passenger Truck	Diesel	Off-Network	526	696		
Passenger Truck	Diesel	Rural Restricted			5,724	8,419
Passenger Truck	Diesel	Rural Unrestricted			4,490	6,154
Passenger Truck	Diesel	Urban Restricted			733	1,038
Passenger Truck	Diesel	Urban Unrestricted			10,514	12,614
Passenger Truck	Ethanol (E-85)	Off-Network	7	64		
Passenger Truck	Ethanol (E-85)	Rural Restricted			83	835
Passenger Truck	Ethanol (E-85)	Rural Unrestricted			65	610
Passenger Truck	Ethanol (E-85)	Urban Restricted			11	103
Passenger Truck	Ethanol (E-85)	Urban Unrestricted			152	1,251
Light Commercial Truck	Gasoline	Off-Network	10,041	12,028		
Light Commercial Truck	Gasoline	Rural Restricted			98,053	130,187
Light Commercial Truck	Gasoline	Rural Unrestricted			76,921	95,159
Light Commercial Truck	Gasoline	Urban Restricted			12,551	16,057
Light Commercial Truck	Gasoline	Urban Unrestricted			180,112	195,048
Light Commercial Truck	Diesel	Off-Network	567	680		
Light Commercial Truck	Diesel	Rural Restricted			5,603	7,370
Light Commercial Truck	Diesel	Rural Unrestricted			4,395	5,387
Light Commercial Truck	Diesel	Urban Restricted			717	909
Light Commercial Truck	Diesel	Urban Unrestricted			10,291	11,043
Light Commercial Truck	Ethanol (E-85)	Off-Network	2	15		
Light Commercial Truck	Ethanol (E-85)	Rural Restricted			21	196
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted			16	143
Light Commercial Truck	Ethanol (E-85)	Urban Restricted			3	24

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted			38	294
Intercity Bus	Diesel	Off-Network	44	49		
Intercity Bus	Diesel	Rural Restricted			689	923
Intercity Bus	Diesel	Rural Unrestricted			721	900
Intercity Bus	Diesel	Urban Restricted			88	114
Intercity Bus	Diesel	Urban Unrestricted			1,623	1,762
Transit Bus	Gasoline	Off-Network	0	0		
Transit Bus	Gasoline	Rural Restricted			3	4
Transit Bus	Gasoline	Rural Unrestricted			3	4
Transit Bus	Gasoline	Urban Restricted			0	1
Transit Bus	Gasoline	Urban Unrestricted			6	8
Transit Bus	Diesel	Off-Network	21	22		
Transit Bus	Diesel	Rural Restricted			179	224
Transit Bus	Diesel	Rural Unrestricted			188	219
Transit Bus	Diesel	Urban Restricted			23	28
Transit Bus	Diesel	Urban Unrestricted			423	428
Transit Bus	CNG	Off-Network	3	3		
Transit Bus	CNG	Rural Restricted			24	34
Transit Bus	CNG	Rural Unrestricted			25	33
Transit Bus	CNG	Urban Restricted			3	4
Transit Bus	CNG	Urban Unrestricted			57	65
School Bus	Gasoline	Off-Network	5	4		
School Bus	Gasoline	Rural Restricted			13	12
School Bus	Gasoline	Rural Unrestricted			14	12
School Bus	Gasoline	Urban Restricted			2	1
School Bus	Gasoline	Urban Unrestricted			32	23
School Bus	Diesel	Off-Network	292	327		
School Bus	Diesel	Rural Restricted			758	1,023
School Bus	Diesel	Rural Unrestricted			793	998
School Bus	Diesel	Urban Restricted			97	126
School Bus	Diesel	Urban Unrestricted			1,787	1,953
Refuse Truck	Gasoline	Off-Network	2	1		
Refuse Truck	Gasoline	Rural Restricted			28	16
Refuse Truck	Gasoline	Rural Unrestricted			21	11
Refuse Truck	Gasoline	Urban Restricted			4	2
Refuse Truck	Gasoline	Urban Unrestricted			47	22
Refuse Truck	Diesel	Off-Network	32	29		
Refuse Truck	Diesel	Rural Restricted			639	675
Refuse Truck	Diesel	Rural Unrestricted			471	464
Refuse Truck	Diesel	Urban Restricted			82	83
Refuse Truck	Diesel	Urban Unrestricted			1,063	910
Single Unit Short-haul Truck	Gasoline	Off-Network	822	889		
Single Unit Short-haul Truck	Gasoline	Rural Restricted			9,029	12,146
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted			6,664	8,356
Single Unit Short-haul Truck	Gasoline	Urban Restricted			1,156	1,498
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted			15,033	16,385
Single Unit Short-haul Truck	Diesel	Off-Network	1,624	1,820		
Single Unit Short-haul Truck	Diesel	Rural Restricted			20,524	27,012
Single Unit Short-haul Truck	Diesel	Rural Unrestricted			15,147	18,584
Single Unit Short-haul Truck	Diesel	Urban Restricted			2,627	3,332
Single Unit Short-haul Truck	Diesel	Urban Unrestricted			34,172	36,441
Single Unit Long-haul Truck	Gasoline	Off-Network	85	77		
Single Unit Long-haul Truck	Gasoline	Rural Restricted			955	658
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted			705	453
Single Unit Long-haul Truck	Gasoline	Urban Restricted			122	81

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted			1,590	888
Single Unit Long-haul Truck	Diesel	Off-Network	240	320		
Single Unit Long-haul Truck	Diesel	Rural Restricted			4,149	6,834
Single Unit Long-haul Truck	Diesel	Rural Unrestricted			3,062	4,702
Single Unit Long-haul Truck	Diesel	Urban Restricted			531	843
Single Unit Long-haul Truck	Diesel	Urban Unrestricted			6,908	9,220
Motor Home	Gasoline	Off-Network	372	391		
Motor Home	Gasoline	Rural Restricted			664	850
Motor Home	Gasoline	Rural Unrestricted			490	585
Motor Home	Gasoline	Urban Restricted			85	105
Motor Home	Gasoline	Urban Unrestricted			1,105	1,146
Motor Home	Diesel	Off-Network	198	249		
Motor Home	Diesel	Rural Restricted			353	543
Motor Home	Diesel	Rural Unrestricted			260	373
Motor Home	Diesel	Urban Restricted			45	67
Motor Home	Diesel	Urban Unrestricted			587	732
Combination Short-haul Truck	Gasoline	Off-Network	0	0		
Combination Short-haul Truck	Gasoline	Rural Restricted			4	2
Combination Short-haul Truck	Gasoline	Rural Unrestricted			1	0
Combination Short-haul Truck	Gasoline	Urban Restricted			0	0
Combination Short-haul Truck	Gasoline	Urban Unrestricted			2	1
Combination Short-haul Truck	Diesel	Off-Network	249	267		
Combination Short-haul Truck	Diesel	Rural Restricted			9,933	13,734
Combination Short-haul Truck	Diesel	Rural Unrestricted			1,946	2,503
Combination Short-haul Truck	Diesel	Urban Restricted			1,271	1,694
Combination Short-haul Truck	Diesel	Urban Unrestricted			4,384	4,906
Combination Long-haul Truck	Diesel	Off-Network	305	352		
Combination Long-haul Truck	Diesel	Rural Restricted			41,083	54,449
Combination Long-haul Truck	Diesel	Rural Unrestricted			8,050	9,923
Combination Long-haul Truck	Diesel	Urban Restricted			5,258	6,716
Combination Long-haul Truck	Diesel	Urban Unrestricted			18,134	19,450
ALL	ALL	ALL	79,622	94,341	2,878,875	3,433,872
Motorcycle	ALL	ALL	3,556	4,735	19,177	21,556
Passenger Car	ALL	ALL	29,407	33,993	995,264	1,164,109
Passenger Truck	ALL	ALL	31,756	38,088	1,249,777	1,510,097
Light Commercial Truck	ALL	ALL	10,609	12,724	388,722	461,818
Intercity Bus	ALL	ALL	44	49	3,120	3,699
Transit Bus	ALL	ALL	24	26	934	1,051
School Bus	ALL	ALL	297	331	3,496	4,148
Refuse Truck	ALL	ALL	34	30	2,355	2,184
Single Unit Short-haul Truck	ALL	ALL	2,446	2,709	104,351	123,755
Single Unit Long-haul Truck	ALL	ALL	325	397	18,023	23,679
Motor Home	ALL	ALL	570	640	3,590	4,400
Combination Short-haul Truck	ALL	ALL	249	267	17,541	22,839
Combination Long-haul Truck	ALL	ALL	305	352	72,525	90,537
ALL	ALL	ALL	79,622	94,341	2,878,875	3,433,872
ALL	Gasoline	ALL	75,388	89,216	2,643,730	3,136,034
ALL	Diesel	ALL	4,220	5,025	234,560	293,591
ALL	CNG	ALL	3	3	110	136
ALL	Ethanol (E-85)	ALL	11	97	476	4,110

Source Type	Fuel Type	Road Type	Kenosha Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
ALL	ALL	ALL	79,622	94,341	2,878,875	3,433,872
ALL	ALL	Off-Network	79,622	94,341		
ALL	ALL	Rural Restricted			793,463	1,057,129
ALL	ALL	Rural Unrestricted			594,682	737,989
ALL	ALL	Urban Restricted			101,565	130,382
ALL	ALL	Urban Unrestricted			1,389,165	1,508,372
ALL	ALL	ALL	79,622	94,341	2,878,875	3,433,872

Table C-8

Sheboygan Whole County Nonattainment Area Vehicle Activity Data Output from the MOVES2014 Model

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Motorcycle	Gasoline	Off-Network	2,937	3,122		
Motorcycle	Gasoline	Rural Restricted			3,690	4,039
Motorcycle	Gasoline	Rural Unrestricted			9,979	10,267
Motorcycle	Gasoline	Urban Restricted			3,219	3,889
Motorcycle	Gasoline	Urban Unrestricted			3,533	3,788
Passenger Car	Gasoline	Off-Network	41,444	43,831		
Passenger Car	Gasoline	Rural Restricted			281,379	304,948
Passenger Car	Gasoline	Rural Unrestricted			561,010	571,781
Passenger Car	Gasoline	Urban Restricted			289,169	346,063
Passenger Car	Gasoline	Urban Unrestricted			266,087	282,541
Passenger Car	Diesel	Off-Network	175	277		
Passenger Car	Diesel	Rural Restricted			1,148	2,051
Passenger Car	Diesel	Rural Unrestricted			2,289	3,845
Passenger Car	Diesel	Urban Restricted			1,180	2,327
Passenger Car	Diesel	Urban Unrestricted			1,086	1,900
Passenger Car	Ethanol (E-85)	Off-Network	3	23		
Passenger Car	Ethanol (E-85)	Rural Restricted			25	172
Passenger Car	Ethanol (E-85)	Rural Unrestricted			50	323
Passenger Car	Ethanol (E-85)	Urban Restricted			26	196
Passenger Car	Ethanol (E-85)	Urban Unrestricted			24	160
Passenger Truck	Gasoline	Off-Network	28,846	30,333		
Passenger Truck	Gasoline	Rural Restricted			220,612	238,088
Passenger Truck	Gasoline	Rural Unrestricted			509,355	516,959
Passenger Truck	Gasoline	Urban Restricted			205,096	244,420
Passenger Truck	Gasoline	Urban Unrestricted			195,252	206,457
Passenger Truck	Diesel	Off-Network	486	566		
Passenger Truck	Diesel	Rural Restricted			3,855	4,544
Passenger Truck	Diesel	Rural Unrestricted			8,901	9,865
Passenger Truck	Diesel	Urban Restricted			3,584	4,664
Passenger Truck	Diesel	Urban Unrestricted			3,412	3,940
Passenger Truck	Ethanol (E-85)	Off-Network	7	52		
Passenger Truck	Ethanol (E-85)	Rural Restricted			56	450
Passenger Truck	Ethanol (E-85)	Rural Unrestricted			129	978
Passenger Truck	Ethanol (E-85)	Urban Restricted			52	462
Passenger Truck	Ethanol (E-85)	Urban Unrestricted			49	391
Light Commercial Truck	Gasoline	Off-Network	6,787	7,348		
Light Commercial Truck	Gasoline	Rural Restricted			48,647	53,171
Light Commercial Truck	Gasoline	Rural Unrestricted			111,465	114,576
Light Commercial Truck	Gasoline	Urban Restricted			44,892	54,183
Light Commercial Truck	Gasoline	Urban Unrestricted			42,583	45,602
Light Commercial Truck	Diesel	Off-Network	383	416		
Light Commercial Truck	Diesel	Rural Restricted			2,780	3,010
Light Commercial Truck	Diesel	Rural Unrestricted			6,369	6,487
Light Commercial Truck	Diesel	Urban Restricted			2,565	3,068
Light Commercial Truck	Diesel	Urban Unrestricted			2,433	2,582
Light Commercial Truck	Ethanol (E-85)	Off-Network	1	9		
Light Commercial Truck	Ethanol (E-85)	Rural Restricted			10	80
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted			23	173
Light Commercial Truck	Ethanol (E-85)	Urban Restricted			9	82

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted			9	69
Intercity Bus	Diesel	Off-Network	4	5		
Intercity Bus	Diesel	Rural Restricted			258	291
Intercity Bus	Diesel	Rural Unrestricted			470	486
Intercity Bus	Diesel	Urban Restricted			320	396
Intercity Bus	Diesel	Urban Unrestricted			239	261
Transit Bus	Gasoline	Off-Network	0	0		
Transit Bus	Gasoline	Rural Restricted			7	9
Transit Bus	Gasoline	Rural Unrestricted			12	16
Transit Bus	Gasoline	Urban Restricted			8	13
Transit Bus	Gasoline	Urban Unrestricted			6	8
Transit Bus	Diesel	Off-Network	14	17		
Transit Bus	Diesel	Rural Restricted			452	487
Transit Bus	Diesel	Rural Unrestricted			839	827
Transit Bus	Diesel	Urban Restricted			569	673
Transit Bus	Diesel	Urban Unrestricted			428	447
Transit Bus	CNG	Off-Network	2	2		
Transit Bus	CNG	Rural Restricted			61	74
Transit Bus	CNG	Rural Unrestricted			113	126
Transit Bus	CNG	Urban Restricted			77	102
Transit Bus	CNG	Urban Unrestricted			58	68
School Bus	Gasoline	Off-Network	3	2		
School Bus	Gasoline	Rural Restricted			25	18
School Bus	Gasoline	Rural Unrestricted			46	31
School Bus	Gasoline	Urban Restricted			31	26
School Bus	Gasoline	Urban Unrestricted			23	17
School Bus	Diesel	Off-Network	144	173		
School Bus	Diesel	Rural Restricted			1,383	1,566
School Bus	Diesel	Rural Unrestricted			2,564	2,661
School Bus	Diesel	Urban Restricted			1,740	2,165
School Bus	Diesel	Urban Unrestricted			1,308	1,438
Refuse Truck	Gasoline	Off-Network	3	3		
Refuse Truck	Gasoline	Rural Restricted			51	33
Refuse Truck	Gasoline	Rural Unrestricted			53	31
Refuse Truck	Gasoline	Urban Restricted			42	30
Refuse Truck	Gasoline	Urban Unrestricted			18	11
Refuse Truck	Diesel	Off-Network	45	57		
Refuse Truck	Diesel	Rural Restricted			1,145	1,350
Refuse Truck	Diesel	Rural Unrestricted			1,185	1,279
Refuse Truck	Diesel	Urban Restricted			957	1,239
Refuse Truck	Diesel	Urban Unrestricted			409	468
Single Unit Short-haul Truck	Gasoline	Off-Network	510	606		
Single Unit Short-haul Truck	Gasoline	Rural Restricted			5,149	6,131
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted			8,241	8,992
Single Unit Short-haul Truck	Gasoline	Urban Restricted			5,860	7,664
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted			3,598	4,162
Single Unit Short-haul Truck	Diesel	Off-Network	1,006	1,242		
Single Unit Short-haul Truck	Diesel	Rural Restricted			11,705	13,636
Single Unit Short-haul Truck	Diesel	Rural Unrestricted			18,734	19,998
Single Unit Short-haul Truck	Diesel	Urban Restricted			13,320	17,045
Single Unit Short-haul Truck	Diesel	Urban Unrestricted			8,179	9,257
Single Unit Long-haul Truck	Gasoline	Off-Network	17	15		
Single Unit Long-haul Truck	Gasoline	Rural Restricted			173	96
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted			276	140
Single Unit Long-haul Truck	Gasoline	Urban Restricted			196	119

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted			120	65
Single Unit Long-haul Truck	Diesel	Off-Network	47	63		
Single Unit Long-haul Truck	Diesel	Rural Restricted			749	994
Single Unit Long-haul Truck	Diesel	Rural Unrestricted			1,197	1,455
Single Unit Long-haul Truck	Diesel	Urban Restricted			851	1,240
Single Unit Long-haul Truck	Diesel	Urban Unrestricted			522	672
Motor Home	Gasoline	Off-Network	239	273		
Motor Home	Gasoline	Rural Restricted			308	346
Motor Home	Gasoline	Rural Unrestricted			654	674
Motor Home	Gasoline	Urban Restricted			446	550
Motor Home	Gasoline	Urban Unrestricted			329	359
Motor Home	Diesel	Off-Network	127	174		
Motor Home	Diesel	Rural Restricted			163	221
Motor Home	Diesel	Rural Unrestricted			348	430
Motor Home	Diesel	Urban Restricted			237	351
Motor Home	Diesel	Urban Unrestricted			175	229
Combination Short-haul Truck	Gasoline	Off-Network	1	0		
Combination Short-haul Truck	Gasoline	Rural Restricted			3	2
Combination Short-haul Truck	Gasoline	Rural Unrestricted			4	2
Combination Short-haul Truck	Gasoline	Urban Restricted			3	2
Combination Short-haul Truck	Gasoline	Urban Unrestricted			1	1
Combination Short-haul Truck	Diesel	Off-Network	327	363		
Combination Short-haul Truck	Diesel	Rural Restricted			9,711	11,149
Combination Short-haul Truck	Diesel	Rural Unrestricted			10,271	10,803
Combination Short-haul Truck	Diesel	Urban Restricted			8,191	10,328
Combination Short-haul Truck	Diesel	Urban Unrestricted			3,531	3,938
Combination Long-haul Truck	Diesel	Off-Network	346	403		
Combination Long-haul Truck	Diesel	Rural Restricted			35,955	38,630
Combination Long-haul Truck	Diesel	Rural Unrestricted			35,833	35,275
Combination Long-haul Truck	Diesel	Urban Restricted			29,291	34,566
Combination Long-haul Truck	Diesel	Urban Unrestricted			11,985	12,509
ALL	ALL	ALL	83,902	89,374	3,077,240	3,321,266
Motorcycle	ALL	ALL	2,937	3,122	20,421	21,983
Passenger Car	ALL	ALL	41,622	44,130	1,403,472	1,516,307
Passenger Truck	ALL	ALL	29,338	30,951	1,150,354	1,231,219
Light Commercial Truck	ALL	ALL	7,171	7,773	261,786	283,081
Intercity Bus	ALL	ALL	4	5	1,288	1,434
Transit Bus	ALL	ALL	16	20	2,629	2,850
School Bus	ALL	ALL	146	175	7,119	7,923
Refuse Truck	ALL	ALL	48	59	3,860	4,441
Single Unit Short-haul Truck	ALL	ALL	1,516	1,848	74,788	86,884
Single Unit Long-haul Truck	ALL	ALL	64	78	4,084	4,781
Motor Home	ALL	ALL	365	447	2,660	3,161
Combination Short-haul Truck	ALL	ALL	328	363	31,715	36,224
Combination Long-haul Truck	ALL	ALL	346	403	113,064	120,980
ALL	ALL	ALL	83,902	89,374	3,077,240	3,321,266
ALL	Gasoline	ALL	80,784	85,533	2,821,652	3,030,318
ALL	Diesel	ALL	3,105	3,755	254,818	287,042
ALL	CNG	ALL	2	2	308	370
ALL	Ethanol (E-85)	ALL	11	84	462	3,536

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
ALL	ALL	ALL	83,902	89,374	3,077,240	3,321,266
ALL	ALL	Off-Network	83,902	89,374		
ALL	ALL	Rural Restricted			629,502	685,586
ALL	ALL	Rural Unrestricted			1,290,409	1,318,478
ALL	ALL	Urban Restricted			611,932	735,863
ALL	ALL	Urban Unrestricted			545,398	581,339
ALL	ALL	ALL	83,902	89,374	3,077,240	3,321,266

Table C-9

Sheboygan Proposed Sub-County Nonattainment Area Vehicle Activity Data Output from the MOVES2014 Model

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Motorcycle	Gasoline	Off-Network	1,704	1,808		
Motorcycle	Gasoline	Rural Restricted			3,538	3,788
Motorcycle	Gasoline	Rural Unrestricted			3,321	3,621
Motorcycle	Gasoline	Urban Restricted			1,669	1,789
Motorcycle	Gasoline	Urban Unrestricted			3,323	3,531
Passenger Car	Gasoline	Off-Network	24,050	25,379		
Passenger Car	Gasoline	Rural Restricted			255,385	273,867
Passenger Car	Gasoline	Rural Unrestricted			176,776	193,114
Passenger Car	Gasoline	Urban Restricted			141,946	152,461
Passenger Car	Gasoline	Urban Unrestricted			236,944	252,187
Passenger Car	Diesel	Off-Network	102	160		
Passenger Car	Diesel	Rural Restricted			1,042	1,842
Passenger Car	Diesel	Rural Unrestricted			721	1,299
Passenger Car	Diesel	Urban Restricted			579	1,025
Passenger Car	Diesel	Urban Unrestricted			967	1,696
Passenger Car	Ethanol (E-85)	Off-Network	2	13		
Passenger Car	Ethanol (E-85)	Rural Restricted			23	155
Passenger Car	Ethanol (E-85)	Rural Unrestricted			16	109
Passenger Car	Ethanol (E-85)	Urban Restricted			13	86
Passenger Car	Ethanol (E-85)	Urban Unrestricted			21	143
Passenger Truck	Gasoline	Off-Network	16,739	17,564		
Passenger Truck	Gasoline	Rural Restricted			206,739	219,442
Passenger Truck	Gasoline	Rural Unrestricted			165,716	179,188
Passenger Truck	Gasoline	Urban Restricted			103,949	110,511
Passenger Truck	Gasoline	Urban Unrestricted			179,517	189,120
Passenger Truck	Diesel	Off-Network	282	328		
Passenger Truck	Diesel	Rural Restricted			3,613	4,188
Passenger Truck	Diesel	Rural Unrestricted			2,896	3,419
Passenger Truck	Diesel	Urban Restricted			1,817	2,109
Passenger Truck	Diesel	Urban Unrestricted			3,137	3,609
Passenger Truck	Ethanol (E-85)	Off-Network	4	30		
Passenger Truck	Ethanol (E-85)	Rural Restricted			52	415
Passenger Truck	Ethanol (E-85)	Rural Unrestricted			42	339
Passenger Truck	Ethanol (E-85)	Urban Restricted			26	209
Passenger Truck	Ethanol (E-85)	Urban Unrestricted			45	358
Light Commercial Truck	Gasoline	Off-Network	3,938	4,255		
Light Commercial Truck	Gasoline	Rural Restricted			45,562	48,981
Light Commercial Truck	Gasoline	Rural Unrestricted			36,244	39,693
Light Commercial Truck	Gasoline	Urban Restricted			22,740	24,485
Light Commercial Truck	Gasoline	Urban Unrestricted			39,129	41,750
Light Commercial Truck	Diesel	Off-Network	222	241		
Light Commercial Truck	Diesel	Rural Restricted			2,603	2,773
Light Commercial Truck	Diesel	Rural Unrestricted			2,071	2,247
Light Commercial Truck	Diesel	Urban Restricted			1,299	1,386
Light Commercial Truck	Diesel	Urban Unrestricted			2,236	2,364
Light Commercial Truck	Ethanol (E-85)	Off-Network	1	5		
Light Commercial Truck	Ethanol (E-85)	Rural Restricted			10	74
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted			8	60

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Light Commercial Truck	Ethanol (E-85)	Urban Restricted			5	37
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted			8	63
Intercity Bus	Diesel	Off-Network	3	3		
Intercity Bus	Diesel	Rural Restricted			246	273
Intercity Bus	Diesel	Rural Unrestricted			164	184
Intercity Bus	Diesel	Urban Restricted			186	206
Intercity Bus	Diesel	Urban Unrestricted			223	243
Transit Bus	Gasoline	Off-Network	0	0		
Transit Bus	Gasoline	Rural Restricted			6	9
Transit Bus	Gasoline	Rural Unrestricted			4	6
Transit Bus	Gasoline	Urban Restricted			5	7
Transit Bus	Gasoline	Urban Unrestricted			6	8
Transit Bus	Diesel	Off-Network	9	11		
Transit Bus	Diesel	Rural Restricted			431	457
Transit Bus	Diesel	Rural Unrestricted			293	313
Transit Bus	Diesel	Urban Restricted			331	351
Transit Bus	Diesel	Urban Unrestricted			400	417
Transit Bus	CNG	Off-Network	1	1		
Transit Bus	CNG	Rural Restricted			58	69
Transit Bus	CNG	Rural Unrestricted			39	48
Transit Bus	CNG	Urban Restricted			45	53
Transit Bus	CNG	Urban Unrestricted			54	63
School Bus	Gasoline	Off-Network	2	1		
School Bus	Gasoline	Rural Restricted			23	17
School Bus	Gasoline	Rural Unrestricted			16	12
School Bus	Gasoline	Urban Restricted			18	13
School Bus	Gasoline	Urban Unrestricted			22	16
School Bus	Diesel	Off-Network	91	109		
School Bus	Diesel	Rural Restricted			1,319	1,468
School Bus	Diesel	Rural Unrestricted			895	1,009
School Bus	Diesel	Urban Restricted			1,014	1,130
School Bus	Diesel	Urban Unrestricted			1,224	1,341
Refuse Truck	Gasoline	Off-Network	2	2		
Refuse Truck	Gasoline	Rural Restricted			47	30
Refuse Truck	Gasoline	Rural Unrestricted			18	11
Refuse Truck	Gasoline	Urban Restricted			24	15
Refuse Truck	Gasoline	Urban Unrestricted			16	10
Refuse Truck	Diesel	Off-Network	29	36		
Refuse Truck	Diesel	Rural Restricted			1,051	1,223
Refuse Truck	Diesel	Rural Unrestricted			398	469
Refuse Truck	Diesel	Urban Restricted			536	625
Refuse Truck	Diesel	Urban Unrestricted			368	422
Single Unit Short-haul Truck	Gasoline	Off-Network	324	383		
Single Unit Short-haul Truck	Gasoline	Rural Restricted			4,902	5,744
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted			2,871	3,408
Single Unit Short-haul Truck	Gasoline	Urban Restricted			3,407	3,998
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted			3,363	3,878
Single Unit Short-haul Truck	Diesel	Off-Network	640	785		
Single Unit Short-haul Truck	Diesel	Rural Restricted			11,143	12,776
Single Unit Short-haul Truck	Diesel	Rural Unrestricted			6,527	7,579
Single Unit Short-haul Truck	Diesel	Urban Restricted			7,744	8,891
Single Unit Short-haul Truck	Diesel	Urban Unrestricted			7,644	8,625
Single Unit Long-haul Truck	Gasoline	Off-Network	11	10		
Single Unit Long-haul Truck	Gasoline	Rural Restricted			164	90

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted			96	53
Single Unit Long-haul Truck	Gasoline	Urban Restricted			114	62
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted			112	60
Single Unit Long-haul Truck	Diesel	Off-Network	30	40		
Single Unit Long-haul Truck	Diesel	Rural Restricted			713	931
Single Unit Long-haul Truck	Diesel	Rural Unrestricted			417	551
Single Unit Long-haul Truck	Diesel	Urban Restricted			495	647
Single Unit Long-haul Truck	Diesel	Urban Unrestricted			488	626
Motor Home	Gasoline	Off-Network	152	172		
Motor Home	Gasoline	Rural Restricted			298	329
Motor Home	Gasoline	Rural Unrestricted			232	259
Motor Home	Gasoline	Urban Restricted			264	291
Motor Home	Gasoline	Urban Unrestricted			313	340
Motor Home	Diesel	Off-Network	81	110		
Motor Home	Diesel	Rural Restricted			158	210
Motor Home	Diesel	Rural Unrestricted			123	166
Motor Home	Diesel	Urban Restricted			140	186
Motor Home	Diesel	Urban Unrestricted			166	217
Combination Short-haul Truck	Gasoline	Off-Network	0	0		
Combination Short-haul Truck	Gasoline	Rural Restricted			3	1
Combination Short-haul Truck	Gasoline	Rural Unrestricted			1	1
Combination Short-haul Truck	Gasoline	Urban Restricted			2	1
Combination Short-haul Truck	Gasoline	Urban Unrestricted			1	1
Combination Short-haul Truck	Diesel	Off-Network	208	229		
Combination Short-haul Truck	Diesel	Rural Restricted			8,932	10,131
Combination Short-haul Truck	Diesel	Rural Unrestricted			3,457	3,971
Combination Short-haul Truck	Diesel	Urban Restricted			4,601	5,225
Combination Short-haul Truck	Diesel	Urban Unrestricted			3,188	3,558
Combination Long-haul Truck	Diesel	Off-Network	220	255		
Combination Long-haul Truck	Diesel	Rural Restricted			32,867	34,912
Combination Long-haul Truck	Diesel	Rural Unrestricted			11,988	12,896
Combination Long-haul Truck	Diesel	Urban Restricted			16,351	17,392
Combination Long-haul Truck	Diesel	Urban Unrestricted			10,755	11,243
ALL	ALL	ALL	48,847	51,929	1,799,266	1,937,297
Motorcycle	ALL	ALL	1,704	1,808	11,850	12,728
Passenger Car	ALL	ALL	24,153	25,552	814,432	877,983
Passenger Truck	ALL	ALL	17,025	17,921	667,550	712,907
Light Commercial Truck	ALL	ALL	4,161	4,501	151,914	163,912
Intercity Bus	ALL	ALL	3	3	820	906
Transit Bus	ALL	ALL	10	12	1,673	1,800
School Bus	ALL	ALL	93	111	4,531	5,006
Refuse Truck	ALL	ALL	31	37	2,457	2,806
Single Unit Short-haul Truck	ALL	ALL	965	1,168	47,599	54,899
Single Unit Long-haul Truck	ALL	ALL	41	49	2,599	3,021
Motor Home	ALL	ALL	232	282	1,693	1,997
Combination Short-haul Truck	ALL	ALL	209	229	20,185	22,889
Combination Long-haul Truck	ALL	ALL	220	255	71,961	76,443
ALL	ALL	ALL	48,847	51,929	1,799,266	1,937,297
ALL	Gasoline	ALL	46,922	49,573	1,638,844	1,756,196
ALL	Diesel	ALL	1,917	2,306	159,958	178,820

Source Type	Fuel Type	Road Type	Sheboygan Proposed Sub-County Nonattainment Area			
			Vehicle Population		Vehicle-Miles of Travel Summer Weekday	
			2011	2015	2011	2015
ALL	CNG	ALL	1	1	196	234
ALL	Ethanol (E-85)	ALL	6	49	268	2,048
ALL	ALL	ALL	48,847	51,929	1,799,266	1,937,297
ALL	ALL	Off-Network	48,847	51,929		
ALL	ALL	Rural Restricted			580,928	624,192
ALL	ALL	Rural Unrestricted			415,350	454,024
ALL	ALL	Urban Restricted			309,316	333,193
ALL	ALL	Urban Unrestricted			493,672	525,887
ALL	ALL	ALL	48,847	51,929	1,799,266	1,937,297

Appendix D: 2011 and 2015 Off-Road Source Emissions

Table D-1

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2011 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	0.1687	0.0008	30.9%	land area	0.0521	0.0003
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	0.2391	0.0012	30.9%	land area	0.0739	0.0004
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.0646	0.0003	30.9%	land area	0.0199	0.0001
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	0.0371	0.0001	76.1%	population	0.0283	0.0001
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0025	0.0000	76.1%	population	0.0019	0.0000
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0030	0.0000	76.1%	population	0.0023	0.0000
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	0.0976	0.0003	76.1%	population	0.0743	0.0002
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0006	0.0000	76.1%	population	0.0004	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0011	0.0000	76.1%	population	0.0009	0.0000
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.0115	0.0001	76.1%	population	0.0087	0.0000
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.0249	0.0001	76.1%	population	0.0190	0.0001
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	0.1606	0.0004	76.1%	population	0.1222	0.0003
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	0.2773	0.0008	76.1%	population	0.2110	0.0006
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.2252	0.0012	76.1%	population	0.1714	0.0009
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.2434	0.0013	76.1%	population	0.1853	0.0010
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1440	0.0008	76.1%	population	0.1096	0.0006
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.2257	0.0012	76.1%	population	0.1717	0.0009
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	0.0519	0.0000	76.1%	population	0.0395	0.0000
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	0.0534	0.0000	76.1%	population	0.0407	0.0000
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Commercial)	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0026	0.0000	24.2%	land area (1)	0.0006	0.0000
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.0143	0.0000	76.1%	population	0.0109	0.0000
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	0.0978	0.0003	76.1%	population	0.0744	0.0002
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0006	0.0000	76.1%	population	0.0004	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.0029	0.0000	30.9%	land area	0.0009	0.0000
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	0.1618	0.0007	30.9%	land area	0.0500	0.0002
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	1.4372	0.0062	30.9%	land area	0.4441	0.0019
2265001050	Recreational	4-Stroke Golf Carts	MOVES	1.0878	0.0047	30.9%	land area	0.3361	0.0015
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.0802	0.0003	30.9%	land area	0.0248	0.0001
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0703	0.0002	76.1%	population	0.0535	0.0001
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0005	0.0000	76.1%	population	0.0004	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.1106	0.0003	76.1%	population	0.0842	0.0002
2265002015	Construction	4-Stroke Rollers	MOVES	0.1022	0.0003	76.1%	population	0.0777	0.0002
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.2291	0.0006	76.1%	population	0.1744	0.0005
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.0868	0.0002	76.1%	population	0.0661	0.0002
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0044	0.0000	76.1%	population	0.0033	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.2205	0.0006	76.1%	population	0.1678	0.0004
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.0940	0.0002	76.1%	population	0.0715	0.0002
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.3108	0.0008	76.1%	population	0.2365	0.0006
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.2112	0.0006	76.1%	population	0.1607	0.0004
2265002045	Construction	4-Stroke Cranes	MOVES	0.0403	0.0001	76.1%	population	0.0307	0.0001
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0282	0.0001	76.1%	population	0.0215	0.0001
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0545	0.0001	76.1%	population	0.0415	0.0001
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0892	0.0002	76.1%	population	0.0679	0.0002
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.1224	0.0003	76.1%	population	0.0931	0.0002
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1721	0.0005	76.1%	population	0.1309	0.0003
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0355	0.0001	76.1%	population	0.0270	0.0001
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0640	0.0002	76.1%	population	0.0487	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.7317	0.0020	76.1%	population	0.5568	0.0015
2265003020	Industrial	4-Stroke Forklifts	MOVES	1.5980	0.0043	76.1%	population	1.2161	0.0033
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.2184	0.0006	76.1%	population	0.1662	0.0004
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.3500	0.0009	76.1%	population	0.2664	0.0007
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0467	0.0001	76.1%	population	0.0355	0.0001
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0055	0.0000	76.1%	population	0.0042	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0553	0.0001	76.1%	population	0.0421	0.0001
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	3.4493	0.0166	76.1%	population	2.6249	0.0126
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	1.0804	0.0052	76.1%	population	0.8222	0.0040
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.2900	0.0014	76.1%	population	0.2207	0.0011
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.5840	0.0028	76.1%	population	0.4444	0.0021
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0181	0.0001	76.1%	population	0.0138	0.0001
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0259	0.0001	76.1%	population	0.0197	0.0001
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.0346	0.0002	76.1%	population	0.0263	0.0001
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	1.3978	0.0067	76.1%	population	1.0637	0.0051

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	0.4130	0.0000	76.1%	population	0.3143	0.0000
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	0.4251	0.0000	76.1%	population	0.3235	0.0000
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	0.7439	0.0036	76.1%	population	0.5661	0.0027
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Commercial)	MOVES	0.1324	0.0006	76.1%	population	0.1008	0.0005
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.1786	0.0009	76.1%	population	0.1359	0.0007
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.0689	0.0003	76.1%	population	0.0524	0.0003
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	9.9840	0.0481	76.1%	population	7.5979	0.0366
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	1.8002	0.0087	76.1%	population	1.3699	0.0066
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.3268	0.0016	76.1%	population	0.2487	0.0012
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Commercial)	MOVES	5.4152	0.0261	76.1%	population	4.1210	0.0199
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.3590	0.0017	76.1%	population	0.2732	0.0013
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.1985	0.0010	76.1%	population	0.1511	0.0007
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0103	0.0000	24.2%	land area (1)	0.0025	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0631	0.0003	24.2%	land area (1)	0.0153	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0010	0.0000	24.2%	land area (1)	0.0002	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.0950	0.0005	24.2%	land area (1)	0.0230	0.0001
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0096	0.0000	24.2%	land area (1)	0.0023	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.1649	0.0008	24.2%	land area (1)	0.0399	0.0002
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.2196	0.0011	24.2%	land area (1)	0.0531	0.0003
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.1505	0.0007	24.2%	land area (1)	0.0364	0.0002
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.1806	0.0009	24.2%	land area (1)	0.0437	0.0002
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0825	0.0004	24.2%	land area (1)	0.0200	0.0001
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	5.9570	0.0130	76.1%	population	4.5333	0.0099
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	1.5462	0.0034	76.1%	population	1.1767	0.0026
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	0.8804	0.0019	76.1%	population	0.6700	0.0015
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	1.7000	0.0037	76.1%	population	1.2937	0.0028
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	2.4457	0.0053	76.1%	population	1.8612	0.0041
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.1111	0.0002	76.1%	population	0.0846	0.0002
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0147	0.0000	30.9%	land area	0.0045	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0001	0.0000	30.9%	land area	0.0000	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0168	0.0001	30.9%	land area	0.0052	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0239	0.0001	76.1%	population	0.0182	0.0001
2267002015	Construction	LPG Rollers	MOVES	0.0226	0.0001	76.1%	population	0.0172	0.0001
2267002021	Construction	LPG Paving Equipment	MOVES	0.0100	0.0000	76.1%	population	0.0076	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0038	0.0000	76.1%	population	0.0029	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2267002030	Construction	LPG Trenchers	MOVES	0.0778	0.0002	76.1%	population	0.0592	0.0002
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0466	0.0001	76.1%	population	0.0355	0.0001
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0265	0.0001	76.1%	population	0.0202	0.0001
2267002045	Construction	LPG Cranes	MOVES	0.0401	0.0001	76.1%	population	0.0305	0.0001
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0063	0.0000	76.1%	population	0.0048	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0568	0.0002	76.1%	population	0.0432	0.0001
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0936	0.0003	76.1%	population	0.0712	0.0002
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0073	0.0000	76.1%	population	0.0056	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.1345	0.0004	76.1%	population	0.1024	0.0003
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0637	0.0002	76.1%	population	0.0485	0.0002
2267003010	Industrial	LPG Aerial Lifts	MOVES	1.2791	0.0042	76.1%	population	0.9734	0.0032
2267003020	Industrial	LPG Forklifts	MOVES	63.1147	0.2060	76.1%	population	48.0303	0.1568
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.3084	0.0010	76.1%	population	0.2347	0.0008
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.1151	0.0004	76.1%	population	0.0876	0.0003
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0670	0.0002	76.1%	population	0.0510	0.0002
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.1128	0.0004	76.1%	population	0.0859	0.0003
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.1565	0.0009	76.1%	population	0.1191	0.0006
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0020	0.0000	24.2%	land area (1)	0.0005	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0005	0.0000	24.2%	land area (1)	0.0001	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	2.2493	0.0061	76.1%	population	1.7118	0.0047
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.3931	0.0011	76.1%	population	0.2991	0.0008
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.3806	0.0010	76.1%	population	0.2896	0.0008
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.5041	0.0014	76.1%	population	0.3836	0.0010
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0090	0.0000	76.1%	population	0.0069	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0048	0.0000	76.1%	population	0.0036	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0023	0.0000	76.1%	population	0.0017	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	4.5084	0.0147	76.1%	population	3.4309	0.0112
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0052	0.0000	76.1%	population	0.0040	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0029	0.0000	76.1%	population	0.0022	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0057	0.0000	76.1%	population	0.0044	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0081	0.0000	76.1%	population	0.0062	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0012	0.0000	24.2%	land area (1)	0.0003	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0055	0.0000	24.2%	land area (1)	0.0013	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.6901	0.0019	76.1%	population	0.5252	0.0014
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0289	0.0001	76.1%	population	0.0220	0.0001
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0302	0.0001	76.1%	population	0.0230	0.0001
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.2322	0.0006	76.1%	population	0.1767	0.0005
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.2229	0.0011	30.9%	land area	0.0689	0.0003
2270002003	Construction	Diesel Pavers	MOVES	3.4261	0.0110	76.1%	population	2.6073	0.0084
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0079	0.0000	76.1%	population	0.0060	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.1249	0.0004	76.1%	population	0.0951	0.0003
2270002015	Construction	Diesel Rollers	MOVES	9.0745	0.0291	76.1%	population	6.9057	0.0222
2270002018	Construction	Diesel Scrapers	MOVES	9.5335	0.0306	76.1%	population	7.2550	0.0233
2270002021	Construction	Diesel Paving Equipment	MOVES	0.5748	0.0018	76.1%	population	0.4374	0.0014
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.4173	0.0013	76.1%	population	0.3175	0.0010
2270002027	Construction	Diesel Signal Boards	MOVES	1.1960	0.0038	76.1%	population	0.9102	0.0029
2270002030	Construction	Diesel Trenchers	MOVES	4.6882	0.0151	76.1%	population	3.5677	0.0115
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	5.4910	0.0176	76.1%	population	4.1787	0.0134
2270002036	Construction	Diesel Excavators	MOVES	31.5043	0.1012	76.1%	population	23.9747	0.0770
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.3298	0.0011	76.1%	population	0.2510	0.0008
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.2154	0.0007	76.1%	population	0.1639	0.0005
2270002045	Construction	Diesel Cranes	MOVES	9.0799	0.0292	76.1%	population	6.9098	0.0222
2270002048	Construction	Diesel Graders	MOVES	7.8119	0.0251	76.1%	population	5.9449	0.0191
2270002051	Construction	Diesel Off-highway Trucks	MOVES	31.0947	0.0999	76.1%	population	23.6631	0.0760
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	1.6995	0.0055	76.1%	population	1.2933	0.0042
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	12.3503	0.0397	76.1%	population	9.3986	0.0302
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	42.6443	0.1370	76.1%	population	32.4523	0.1042
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	30.2987	0.0973	76.1%	population	23.0573	0.0741
2270002069	Construction	Diesel Crawler Tractors	MOVES	35.7483	0.1148	76.1%	population	27.2045	0.0874
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	20.9482	0.0673	76.1%	population	15.9416	0.0512
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	4.7064	0.0151	76.1%	population	3.5816	0.0115
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0680	0.0002	76.1%	population	0.0518	0.0002
2270002081	Construction	Diesel Other Construction Equipment	MOVES	4.5879	0.0147	76.1%	population	3.4914	0.0112
2270003010	Industrial	Diesel Aerial Lifts	MOVES	1.8063	0.0059	76.1%	population	1.3746	0.0045
2270003020	Industrial	Diesel Forklifts	MOVES	15.5231	0.0507	76.1%	population	11.8131	0.0386
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	8.1853	0.0267	76.1%	population	6.2290	0.0203
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	9.4258	0.0308	76.1%	population	7.1730	0.0234
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.4883	0.0016	76.1%	population	0.3716	0.0012
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	19.7193	0.0644	76.1%	population	15.0064	0.0490
2270003070	Industrial	Diesel Terminal Tractors	MOVES	9.5583	0.0312	76.1%	population	7.2739	0.0237
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0005	0.0000	76.1%	population	0.0004	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.1131	0.0000	76.1%	population	0.0861	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	2.7000	0.0147	76.1%	population	2.0547	0.0112
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.5364	0.0029	76.1%	population	0.4082	0.0022
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	4.0298	0.0220	76.1%	population	3.0667	0.0167

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.3777	0.0021	76.1%	population	0.2874	0.0016
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0107	0.0001	76.1%	population	0.0081	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0017	0.0000	24.2%	land area (1)	0.0004	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	86.4489	0.4712	24.2%	land area (1)	20.9206	0.1140
2270005020	Agriculture	Diesel Combines	MOVES	9.0961	0.0496	24.2%	land area (1)	2.2013	0.0120
2270005025	Agriculture	Diesel Balers	MOVES	0.0451	0.0002	24.2%	land area (1)	0.0109	0.0001
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0088	0.0000	24.2%	land area (1)	0.0021	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.7114	0.0039	24.2%	land area (1)	0.1722	0.0009
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0012	0.0000	24.2%	land area (1)	0.0003	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.6717	0.0037	24.2%	land area (1)	0.1625	0.0009
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	1.8349	0.0100	24.2%	land area (1)	0.4441	0.0024
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	1.1569	0.0063	24.2%	land area (1)	0.2800	0.0015
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	11.0270	0.0300	76.1%	population	8.3915	0.0228
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	2.6015	0.0071	76.1%	population	1.9798	0.0054
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	5.9725	0.0162	76.1%	population	4.5451	0.0124
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	3.3184	0.0090	76.1%	population	2.5253	0.0069
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.3667	0.0010	76.1%	population	0.2791	0.0008
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.2597	0.0007	76.1%	population	0.1977	0.0005
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.2830	0.0008	30.9%	land area	0.0874	0.0002
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0071	0.0000	100.0%	airport location (2)	0.0071	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	0.8815	0.0024	59.6%	airport location (2)	0.5256	0.0015
2275050012	Aircraft	General Aviation, Turbine	USEPA	1.6692	0.0046	61.2%	airport location (2)	1.0272	0.0028
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0190	0.0001	100.0%	airport location (2)	0.0185	0.0001
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.3340	0.0009	100.0%	airport location (2)	0.3256	0.0009
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	56.2496	0.2098	100.0%	Lk. Mich. Shoreline	56.2496	0.2098
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	3.9664	0.0302	69.1%	water area (3)	2.7408	0.0208
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	1.5910	0.0121	69.1%	water area (3)	1.0994	0.0084
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	13.5541	0.0965	69.1%	water area (3)	9.3659	0.0667
2282020005	Pleasure Craft	Diesel Inboards	MOVES	12.6179	0.0960	69.1%	water area (3)	8.7190	0.0663
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0160	0.0001	69.1%	water area (3)	0.0111	0.0001
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	249.5005	0.6892	60.0%	rail links (4)	149.6567	0.4134
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.8119	0.0022	60.0%	rail links (4)	0.4871	0.0013
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0149	0.0000	60.0%	rail links (4)	0.0089	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0013	0.0000	60.0%	rail links (4)	0.0008	0.0000
ALL	ALL	ALL		930.7357	3.3023			624.7442	2.1417

- (1) City of Kenosha excluded
- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (81 sq. km. for county and 56 sq. km., 69.1%, for nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/

Table D-2

Sheboygan County and Proposed Sub-County Nonattainment Area 2011 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	0.5060	0.0025	21.0%	land area	0.1063	0.0005
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	2.6907	0.0000	21.0%	land area	0.5650	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	0.7174	0.0036	21.0%	land area	0.1507	0.0008
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.1937	0.0010	21.0%	land area	0.0407	0.0002
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	0.0307	0.0001	69.2%	population	0.0213	0.0001
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0021	0.0000	69.2%	population	0.0014	0.0000
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0025	0.0000	69.2%	population	0.0017	0.0000
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0000	0.0000	69.2%	population	0.0000	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	0.0808	0.0003	69.2%	population	0.0559	0.0002
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0005	0.0000	69.2%	population	0.0003	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0023	0.0000	69.2%	population	0.0016	0.0000
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0002	0.0000	69.2%	population	0.0001	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.0087	0.0000	69.2%	population	0.0060	0.0000
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.0190	0.0001	69.2%	population	0.0132	0.0001
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	0.1220	0.0003	69.2%	population	0.0844	0.0002
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	0.2114	0.0006	69.2%	population	0.1463	0.0004
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1710	0.0009	69.2%	population	0.1183	0.0006
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1856	0.0010	69.2%	population	0.1284	0.0007
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1093	0.0006	69.2%	population	0.0757	0.0004
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.1721	0.0009	69.2%	population	0.1191	0.0006
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	0.0394	0.0000	69.2%	population	0.0273	0.0000
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	0.0407	0.0000	69.2%	population	0.0282	0.0000
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0001	0.0000	69.2%	population	0.0001	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0055	0.0000	18.0%	land area (1)	0.0010	0.0000
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.0128	0.0000	69.2%	population	0.0088	0.0000
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	0.0871	0.0002	69.2%	population	0.0602	0.0002
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0000	0.0000	69.2%	population	0.0000	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0005	0.0000	69.2%	population	0.0004	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.0065	0.0000	21.0%	land area	0.0014	0.0000
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	0.4940	0.0021	21.0%	land area	0.1037	0.0004
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	4.3871	0.0189	21.0%	land area	0.9213	0.0040

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2265001050	Recreational	4-Stroke Golf Carts	MOVES	2.4351	0.0105	21.0%	land area	0.5114	0.0022
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.2448	0.0011	21.0%	land area	0.0514	0.0002
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0593	0.0002	69.2%	population	0.0410	0.0001
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0004	0.0000	69.2%	population	0.0003	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.0933	0.0002	69.2%	population	0.0645	0.0002
2265002015	Construction	4-Stroke Rollers	MOVES	0.0861	0.0002	69.2%	population	0.0596	0.0002
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.1931	0.0005	69.2%	population	0.1337	0.0004
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.0732	0.0002	69.2%	population	0.0506	0.0001
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0037	0.0000	69.2%	population	0.0026	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.1859	0.0005	69.2%	population	0.1286	0.0003
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.0792	0.0002	69.2%	population	0.0548	0.0001
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.2620	0.0007	69.2%	population	0.1813	0.0005
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.1780	0.0005	69.2%	population	0.1232	0.0003
2265002045	Construction	4-Stroke Cranes	MOVES	0.0340	0.0001	69.2%	population	0.0235	0.0001
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0238	0.0001	69.2%	population	0.0165	0.0000
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0460	0.0001	69.2%	population	0.0318	0.0001
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0752	0.0002	69.2%	population	0.0521	0.0001
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.1031	0.0003	69.2%	population	0.0714	0.0002
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1451	0.0004	69.2%	population	0.1004	0.0003
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0299	0.0001	69.2%	population	0.0207	0.0001
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0539	0.0001	69.2%	population	0.0373	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	1.5002	0.0040	69.2%	population	1.0381	0.0028
2265003020	Industrial	4-Stroke Forklifts	MOVES	3.2765	0.0087	69.2%	population	2.2673	0.0060
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.4479	0.0012	69.2%	population	0.3099	0.0008
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.7176	0.0019	69.2%	population	0.4966	0.0013
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0957	0.0003	69.2%	population	0.0663	0.0002
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0041	0.0000	69.2%	population	0.0029	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.1134	0.0003	69.2%	population	0.0785	0.0002
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	2.6639	0.0128	69.2%	population	1.8434	0.0088
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	0.8378	0.0040	69.2%	population	0.5798	0.0028
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Resident)	MOVES	0.2239	0.0011	69.2%	population	0.1550	0.0007
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.4529	0.0022	69.2%	population	0.3134	0.0015
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0140	0.0001	69.2%	population	0.0097	0.0000
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0201	0.0001	69.2%	population	0.0139	0.0001
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.0267	0.0001	69.2%	population	0.0185	0.0001
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	1.0839	0.0052	69.2%	population	0.7501	0.0036
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	0.3201	0.0000	69.2%	population	0.2215	0.0000
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	0.3309	0.0000	69.2%	population	0.2290	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	0.5745	0.0028	69.2%	population	0.3976	0.0019
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.1027	0.0005	69.2%	population	0.0711	0.0003
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.1385	0.0007	69.2%	population	0.0958	0.0005
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.0534	0.0003	69.2%	population	0.0370	0.0002
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	7.7106	0.0370	69.2%	population	5.3358	0.0256
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	1.3960	0.0067	69.2%	population	0.9660	0.0046
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.2534	0.0012	69.2%	population	0.1754	0.0008
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	4.1993	0.0202	69.2%	population	2.9059	0.0139
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.2773	0.0013	69.2%	population	0.1919	0.0009
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.1539	0.0007	69.2%	population	0.1065	0.0005
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0223	0.0001	18.0%	land area (1)	0.0040	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.1367	0.0007	18.0%	land area (1)	0.0246	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0022	0.0000	18.0%	land area (1)	0.0004	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.2058	0.0010	18.0%	land area (1)	0.0370	0.0002
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0209	0.0001	18.0%	land area (1)	0.0038	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.3572	0.0017	18.0%	land area (1)	0.0643	0.0003
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.4757	0.0023	18.0%	land area (1)	0.0856	0.0004
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.3261	0.0016	18.0%	land area (1)	0.0587	0.0003
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.3912	0.0019	18.0%	land area (1)	0.0704	0.0003
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.1787	0.0009	18.0%	land area (1)	0.0322	0.0002
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	5.4062	0.0117	69.2%	population	3.7411	0.0081
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	1.4033	0.0030	69.2%	population	0.9711	0.0021
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	0.7990	0.0017	69.2%	population	0.5529	0.0012
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	1.5428	0.0033	69.2%	population	1.0676	0.0023
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	2.2196	0.0048	69.2%	population	1.5359	0.0033
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.1008	0.0002	69.2%	population	0.0698	0.0002
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0336	0.0001	21.0%	land area	0.0071	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0003	0.0000	21.0%	land area	0.0001	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0002	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0504	0.0003	21.0%	land area	0.0106	0.0001
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0198	0.0001	69.2%	population	0.0137	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0187	0.0001	69.2%	population	0.0130	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0083	0.0000	69.2%	population	0.0057	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0031	0.0000	69.2%	population	0.0021	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0643	0.0002	69.2%	population	0.0445	0.0001
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0386	0.0001	69.2%	population	0.0267	0.0001
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0219	0.0001	69.2%	population	0.0152	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2267002045	Construction	LPG Cranes	MOVES	0.0332	0.0001	69.2%	population	0.0230	0.0001
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0052	0.0000	69.2%	population	0.0036	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0470	0.0002	69.2%	population	0.0325	0.0001
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0774	0.0002	69.2%	population	0.0536	0.0002
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0061	0.0000	69.2%	population	0.0042	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.1113	0.0004	69.2%	population	0.0770	0.0002
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0527	0.0002	69.2%	population	0.0365	0.0001
2267003010	Industrial	LPG Aerial Lifts	MOVES	2.5743	0.0084	69.2%	population	1.7814	0.0058
2267003020	Industrial	LPG Forklifts	MOVES	127.0247	0.4146	69.2%	population	87.9011	0.2869
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.6207	0.0020	69.2%	population	0.4296	0.0014
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.2316	0.0008	69.2%	population	0.1603	0.0005
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.1348	0.0004	69.2%	population	0.0933	0.0003
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.2271	0.0007	69.2%	population	0.1572	0.0005
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial	MOVES	0.1193	0.0007	69.2%	population	0.0826	0.0005
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0043	0.0000	18.0%	land area (1)	0.0008	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0010	0.0000	18.0%	land area (1)	0.0002	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	2.0031	0.0054	69.2%	population	1.3861	0.0038
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.3501	0.0010	69.2%	population	0.2422	0.0007
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.3389	0.0009	69.2%	population	0.2345	0.0006
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.4489	0.0012	69.2%	population	0.3106	0.0008
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0081	0.0000	69.2%	population	0.0056	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0043	0.0000	69.2%	population	0.0030	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0019	0.0000	69.2%	population	0.0013	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	9.0737	0.0296	69.2%	population	6.2790	0.0205
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0105	0.0000	69.2%	population	0.0073	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0057	0.0000	69.2%	population	0.0040	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0042	0.0000	69.2%	population	0.0029	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0163	0.0001	69.2%	population	0.0113	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0025	0.0000	18.0%	land area (1)	0.0004	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0116	0.0001	18.0%	land area (1)	0.0021	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.6146	0.0017	69.2%	population	0.4253	0.0012
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0257	0.0001	69.2%	population	0.0178	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0269	0.0001	69.2%	population	0.0186	0.0001
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.2068	0.0006	69.2%	population	0.1431	0.0004
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.6686	0.0033	21.0%	land area	0.1404	0.0007

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270002003	Construction	Diesel Pavers	MOVES	2.8349	0.0091	69.2%	population	1.9618	0.0063
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0066	0.0000	69.2%	population	0.0046	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.1034	0.0003	69.2%	population	0.0715	0.0002
2270002015	Construction	Diesel Rollers	MOVES	7.5086	0.0241	69.2%	population	5.1959	0.0167
2270002018	Construction	Diesel Scrapers	MOVES	7.8883	0.0253	69.2%	population	5.4587	0.0175
2270002021	Construction	Diesel Paving Equipment	MOVES	0.4756	0.0015	69.2%	population	0.3291	0.0011
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.3453	0.0011	69.2%	population	0.2389	0.0008
2270002027	Construction	Diesel Signal Boards	MOVES	0.9896	0.0032	69.2%	population	0.6848	0.0022
2270002030	Construction	Diesel Trenchers	MOVES	3.8792	0.0125	69.2%	population	2.6844	0.0086
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	4.5435	0.0146	69.2%	population	3.1441	0.0101
2270002036	Construction	Diesel Excavators	MOVES	26.0677	0.0837	69.2%	population	18.0389	0.0579
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.2729	0.0009	69.2%	population	0.1888	0.0006
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.1782	0.0006	69.2%	population	0.1233	0.0004
2270002045	Construction	Diesel Cranes	MOVES	7.5130	0.0241	69.2%	population	5.1990	0.0167
2270002048	Construction	Diesel Graders	MOVES	6.4638	0.0208	69.2%	population	4.4730	0.0144
2270002051	Construction	Diesel Off-highway Trucks	MOVES	25.7289	0.0826	69.2%	population	17.8044	0.0572
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	1.4062	0.0045	69.2%	population	0.9731	0.0031
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	10.2191	0.0328	69.2%	population	7.0716	0.0227
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	35.2854	0.1133	69.2%	population	24.4175	0.0784
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	25.0702	0.0805	69.2%	population	17.3486	0.0557
2270002069	Construction	Diesel Crawler Tractors	MOVES	29.5794	0.0950	69.2%	population	20.4690	0.0658
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	17.3333	0.0557	69.2%	population	11.9946	0.0385
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	3.8942	0.0125	69.2%	population	2.6948	0.0087
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0563	0.0002	69.2%	population	0.0389	0.0001
2270002081	Construction	Diesel Other Construction Equipment	MOVES	3.7962	0.0122	69.2%	population	2.6270	0.0084
2270003010	Industrial	Diesel Aerial Lifts	MOVES	3.6354	0.0119	69.2%	population	2.5157	0.0082
2270003020	Industrial	Diesel Forklifts	MOVES	31.2418	0.1020	69.2%	population	21.6193	0.0706
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	16.4737	0.0538	69.2%	population	11.3998	0.0372
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	18.9703	0.0619	69.2%	population	13.1274	0.0428
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.9828	0.0032	69.2%	population	0.6801	0.0022
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	14.5107	0.0474	69.2%	population	10.0414	0.0328
2270003070	Industrial	Diesel Terminal Tractors	MOVES	19.2370	0.0628	69.2%	population	13.3120	0.0435
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0004	0.0000	69.2%	population	0.0003	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0862	0.0000	69.2%	population	0.0597	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	2.0584	0.0112	69.2%	population	1.4244	0.0078
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.4089	0.0022	69.2%	population	0.2830	0.0015
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	3.0722	0.0167	69.2%	population	2.1260	0.0116
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.2879	0.0016	69.2%	population	0.1993	0.0011

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0082	0.0000	69.2%	population	0.0056	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0036	0.0000	18.0%	land area (1)	0.0006	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	184.0892	1.0035	18.0%	land area (1)	33.1360	0.1806
2270005020	Agriculture	Diesel Combines	MOVES	19.3698	0.1056	18.0%	land area (1)	3.4866	0.0190
2270005025	Agriculture	Diesel Balers	MOVES	0.0960	0.0005	18.0%	land area (1)	0.0173	0.0001
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0187	0.0001	18.0%	land area (1)	0.0034	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	1.5150	0.0083	18.0%	land area (1)	0.2727	0.0015
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0026	0.0000	18.0%	land area (1)	0.0005	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	1.4303	0.0078	18.0%	land area (1)	0.2575	0.0014
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	3.9074	0.0213	18.0%	land area (1)	0.7033	0.0038
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	2.4635	0.0134	18.0%	land area (1)	0.4434	0.0024
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	9.8196	0.0267	69.2%	population	6.7952	0.0185
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	2.3167	0.0063	69.2%	population	1.6031	0.0044
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	5.3186	0.0145	69.2%	population	3.6805	0.0100
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	2.9551	0.0080	69.2%	population	2.0449	0.0056
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.3266	0.0009	69.2%	population	0.2260	0.0006
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.2313	0.0006	69.2%	population	0.1601	0.0004
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.6362	0.0017	21.0%	land area	0.1336	0.0004
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0012	0.0000	-	airport location (2)	0.0013	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0198	0.0001	0.0%	airport location (2)	0.0000	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	0.6755	0.0019	1.5%	airport location (2)	0.0101	0.0000
2275050012	Aircraft	General Aviation, Turbine	USEPA	1.3403	0.0037	0.8%	airport location (2)	0.0107	0.0000
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.7604	0.0021	0.0%	airport location (2)	0.0000	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0001	0.0000	0.0%	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	36.6737	0.1379	100.0%	Lk. Mich. Shoreline	36.6737	0.1379
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	4.4424	0.0338	81.0%	water area (3)	3.5983	0.0274
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	1.7819	0.0136	81.0%	water area (3)	1.4434	0.0110
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	24.6403	0.1751	81.0%	water area (3)	19.9587	0.1418
2282020005	Pleasure Craft	Diesel Inboards	MOVES	22.5876	0.1718	81.0%	water area (3)	18.2960	0.1391
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0180	0.0001	81.0%	water area (3)	0.0145	0.0001
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	12.6692	0.0350	50.0%	rail routes (4)	6.3346	0.0175
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	19.6961	0.0544	50.0%	rail routes (4)	9.8480	0.0272
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.1672	0.0005	50.0%	rail routes (4)	0.0836	0.0002
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0031	0.0000	50.0%	rail routes (4)	0.0016	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0003	0.0000	50.0%	rail routes (4)	0.0001	0.0000
ALL	ALL	ALL		893.0261	3.6065			511.0221	1.9409

- (1) Cities of Plymouth, Sheboygan and Sheboygan Falls excluded
- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (145 sq. km. for county and 117 sq. km., 81%, for proposed nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Two major rail routes traverse the length of Sheboygan County, one in the proposed sub-county nonattainment area and the other not in that area.

Table D-3

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2015 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	0.2080	0.0010	30.9%	land area	0.0643	0.0003
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	0.3022	0.0015	30.9%	land area	0.0934	0.0005
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.0432	0.0002	30.9%	land area	0.0134	0.0001
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	0.0375	0.0001	76.1%	population	0.0286	0.0001
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0025	0.0000	76.1%	population	0.0019	0.0000
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0030	0.0000	76.1%	population	0.0023	0.0000
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	0.0987	0.0003	76.1%	population	0.0751	0.0002
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0006	0.0000	76.1%	population	0.0004	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0007	0.0000	76.1%	population	0.0005	0.0000
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0001	0.0000	76.1%	population	0.0000	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Resident)	MOVES	0.0126	0.0001	76.1%	population	0.0096	0.0001
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.0268	0.0001	76.1%	population	0.0204	0.0001
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	0.1727	0.0005	76.1%	population	0.1314	0.0004
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	0.2970	0.0008	76.1%	population	0.2260	0.0006
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.2421	0.0013	76.1%	population	0.1843	0.0010
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.2607	0.0014	76.1%	population	0.1984	0.0011
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1548	0.0008	76.1%	population	0.1178	0.0006
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.2417	0.0013	76.1%	population	0.1839	0.0010
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	0.0556	0.0000	76.1%	population	0.0423	0.0000
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	0.0572	0.0000	76.1%	population	0.0435	0.0000
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0028	0.0000	24.2%	land area (1)	0.0007	0.0000
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.0158	0.0000	76.1%	population	0.0120	0.0000
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	0.1076	0.0003	76.1%	population	0.0819	0.0002
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0006	0.0000	76.1%	population	0.0005	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.0032	0.0000	30.9%	land area	0.0010	0.0000
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	0.1676	0.0007	30.9%	land area	0.0518	0.0002
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	1.4198	0.0062	30.9%	land area	0.4387	0.0019
2265001050	Recreational	4-Stroke Golf Carts	MOVES	0.8675	0.0038	30.9%	land area	0.2681	0.0012

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				tpy	tpsd			tpy	tpsd
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.0722	0.0003	30.9%	land area	0.0223	0.0001
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0410	0.0001	76.1%	population	0.0312	0.0001
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0003	0.0000	76.1%	population	0.0002	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.0691	0.0002	76.1%	population	0.0526	0.0001
2265002015	Construction	4-Stroke Rollers	MOVES	0.0644	0.0002	76.1%	population	0.0490	0.0001
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.1465	0.0004	76.1%	population	0.1115	0.0003
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.0542	0.0001	76.1%	population	0.0412	0.0001
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0027	0.0000	76.1%	population	0.0021	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.1284	0.0003	76.1%	population	0.0977	0.0003
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.0680	0.0002	76.1%	population	0.0517	0.0001
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.2314	0.0006	76.1%	population	0.1761	0.0005
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.1518	0.0004	76.1%	population	0.1155	0.0003
2265002045	Construction	4-Stroke Cranes	MOVES	0.0269	0.0001	76.1%	population	0.0205	0.0001
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0176	0.0000	76.1%	population	0.0134	0.0000
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0273	0.0001	76.1%	population	0.0208	0.0001
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0396	0.0001	76.1%	population	0.0301	0.0001
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.0759	0.0002	76.1%	population	0.0578	0.0002
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1112	0.0003	76.1%	population	0.0846	0.0002
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0264	0.0001	76.1%	population	0.0201	0.0001
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0453	0.0001	76.1%	population	0.0345	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.4157	0.0011	76.1%	population	0.3164	0.0008
2265003020	Industrial	4-Stroke Forklifts	MOVES	0.4701	0.0013	76.1%	population	0.3577	0.0010
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.0767	0.0002	76.1%	population	0.0584	0.0002
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.1321	0.0004	76.1%	population	0.1005	0.0003
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0239	0.0001	76.1%	population	0.0182	0.0000
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0020	0.0000	76.1%	population	0.0015	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0222	0.0001	76.1%	population	0.0169	0.0000
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	2.5289	0.0122	76.1%	population	1.9245	0.0093
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	0.7204	0.0035	76.1%	population	0.5482	0.0026
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.2119	0.0010	76.1%	population	0.1613	0.0008
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.4163	0.0020	76.1%	population	0.3168	0.0015
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0129	0.0001	76.1%	population	0.0098	0.0000
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0169	0.0001	76.1%	population	0.0129	0.0001
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.0246	0.0001	76.1%	population	0.0187	0.0001
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.8274	0.0040	76.1%	population	0.6296	0.0030
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	0.4423	0.0000	76.1%	population	0.3366	0.0000
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	0.4553	0.0000	76.1%	population	0.3465	0.0000
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	0.5270	0.0025	76.1%	population	0.4011	0.0019
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.0829	0.0004	76.1%	population	0.0631	0.0003

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2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.1396	0.0007	76.1%	population	0.1062	0.0005
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.0498	0.0002	76.1%	population	0.0379	0.0002
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	7.0541	0.0340	76.1%	population	5.3681	0.0259
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	1.1266	0.0054	76.1%	population	0.8573	0.0041
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.1951	0.0009	76.1%	population	0.1485	0.0007
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	3.5242	0.0170	76.1%	population	2.6819	0.0129
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.2783	0.0013	76.1%	population	0.2118	0.0010
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.1541	0.0007	76.1%	population	0.1172	0.0006
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0064	0.0000	24.2%	land area (1)	0.0016	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0313	0.0002	24.2%	land area (1)	0.0076	0.0000
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0008	0.0000	24.2%	land area (1)	0.0002	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.0805	0.0004	24.2%	land area (1)	0.0195	0.0001
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0067	0.0000	24.2%	land area (1)	0.0016	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.1333	0.0006	24.2%	land area (1)	0.0323	0.0002
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.2138	0.0010	24.2%	land area (1)	0.0517	0.0002
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.1276	0.0006	24.2%	land area (1)	0.0309	0.0001
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.1510	0.0007	24.2%	land area (1)	0.0365	0.0002
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0429	0.0002	24.2%	land area (1)	0.0104	0.0000
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	4.4212	0.0096	76.1%	population	3.3645	0.0073
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	1.0430	0.0023	76.1%	population	0.7937	0.0017
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	0.5400	0.0012	76.1%	population	0.4109	0.0009
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	1.0941	0.0024	76.1%	population	0.8326	0.0018
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	1.6506	0.0036	76.1%	population	1.2561	0.0027
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.0746	0.0002	76.1%	population	0.0567	0.0001
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0122	0.0000	30.9%	land area	0.0038	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0001	0.0000	30.9%	land area	0.0000	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0139	0.0001	30.9%	land area	0.0043	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0123	0.0000	76.1%	population	0.0094	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0121	0.0000	76.1%	population	0.0092	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0069	0.0000	76.1%	population	0.0053	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0020	0.0000	76.1%	population	0.0016	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0394	0.0001	76.1%	population	0.0300	0.0001
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0391	0.0001	76.1%	population	0.0298	0.0001
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0172	0.0001	76.1%	population	0.0131	0.0000
2267002045	Construction	LPG Cranes	MOVES	0.0276	0.0001	76.1%	population	0.0210	0.0001
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0042	0.0000	76.1%	population	0.0032	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0290	0.0001	76.1%	population	0.0221	0.0001

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2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0414	0.0001	76.1%	population	0.0315	0.0001
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0036	0.0000	76.1%	population	0.0027	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0908	0.0003	76.1%	population	0.0691	0.0002
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0463	0.0001	76.1%	population	0.0352	0.0001
2267003010	Industrial	LPG Aerial Lifts	MOVES	0.9355	0.0031	76.1%	population	0.7119	0.0023
2267003020	Industrial	LPG Forklifts	MOVES	28.6055	0.0934	76.1%	population	21.7688	0.0711
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.1757	0.0006	76.1%	population	0.1337	0.0004
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.0588	0.0002	76.1%	population	0.0448	0.0001
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0448	0.0001	76.1%	population	0.0341	0.0001
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.0869	0.0003	76.1%	population	0.0661	0.0002
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.0758	0.0004	76.1%	population	0.0577	0.0003
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0016	0.0000	24.2%	land area (1)	0.0004	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0002	0.0000	24.2%	land area (1)	0.0000	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	1.9600	0.0053	76.1%	population	1.4916	0.0041
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.2827	0.0008	76.1%	population	0.2152	0.0006
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.1959	0.0005	76.1%	population	0.1491	0.0004
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.2650	0.0007	76.1%	population	0.2016	0.0005
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0068	0.0000	76.1%	population	0.0052	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0027	0.0000	76.1%	population	0.0021	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0017	0.0000	76.1%	population	0.0013	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	2.0512	0.0067	76.1%	population	1.5610	0.0051
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0024	0.0000	76.1%	population	0.0018	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0014	0.0000	76.1%	population	0.0011	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0031	0.0000	76.1%	population	0.0024	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0062	0.0000	76.1%	population	0.0047	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0007	0.0000	24.2%	land area (1)	0.0002	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0000	0.0000	24.2%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.5964	0.0016	76.1%	population	0.4539	0.0012
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0220	0.0001	76.1%	population	0.0167	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0149	0.0000	76.1%	population	0.0114	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.2566	0.0007	76.1%	population	0.1953	0.0005
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.2035	0.0010	30.9%	land area	0.0629	0.0003
2270002003	Construction	Diesel Pavers	MOVES	2.4133	0.0078	76.1%	population	1.8365	0.0059
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0074	0.0000	76.1%	population	0.0056	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.1188	0.0004	76.1%	population	0.0904	0.0003
2270002015	Construction	Diesel Rollers	MOVES	6.6775	0.0214	76.1%	population	5.0816	0.0163

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2270002018	Construction	Diesel Scrapers	MOVES	6.7132	0.0216	76.1%	population	5.1087	0.0164
2270002021	Construction	Diesel Paving Equipment	MOVES	0.4454	0.0014	76.1%	population	0.3389	0.0011
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.3520	0.0011	76.1%	population	0.2679	0.0009
2270002027	Construction	Diesel Signal Boards	MOVES	1.1602	0.0037	76.1%	population	0.8829	0.0028
2270002030	Construction	Diesel Trenchers	MOVES	3.9842	0.0128	76.1%	population	3.0320	0.0097
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	4.7195	0.0152	76.1%	population	3.5915	0.0115
2270002036	Construction	Diesel Excavators	MOVES	19.9742	0.0642	76.1%	population	15.2004	0.0488
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.2860	0.0009	76.1%	population	0.2177	0.0007
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.1916	0.0006	76.1%	population	0.1458	0.0005
2270002045	Construction	Diesel Cranes	MOVES	6.4997	0.0209	76.1%	population	4.9463	0.0159
2270002048	Construction	Diesel Graders	MOVES	4.9894	0.0160	76.1%	population	3.7969	0.0122
2270002051	Construction	Diesel Off-highway Trucks	MOVES	21.9379	0.0705	76.1%	population	16.6947	0.0536
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	1.3127	0.0042	76.1%	population	0.9990	0.0032
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	9.2344	0.0297	76.1%	population	7.0274	0.0226
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	31.5308	0.1013	76.1%	population	23.9950	0.0771
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	25.0482	0.0805	76.1%	population	19.0617	0.0612
2270002069	Construction	Diesel Crawler Tractors	MOVES	25.0306	0.0804	76.1%	population	19.0482	0.0612
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	19.0427	0.0612	76.1%	population	14.4915	0.0465
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	3.6919	0.0119	76.1%	population	2.8095	0.0090
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0622	0.0002	76.1%	population	0.0473	0.0002
2270002081	Construction	Diesel Other Construction Equipment	MOVES	3.6137	0.0116	76.1%	population	2.7500	0.0088
2270003010	Industrial	Diesel Aerial Lifts	MOVES	1.6665	0.0054	76.1%	population	1.2682	0.0041
2270003020	Industrial	Diesel Forklifts	MOVES	9.5855	0.0313	76.1%	population	7.2946	0.0238
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	5.5422	0.0181	76.1%	population	4.2176	0.0138
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	6.9391	0.0227	76.1%	population	5.2807	0.0172
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.4179	0.0014	76.1%	population	0.3180	0.0010
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	17.5802	0.0574	76.1%	population	13.3785	0.0437
2270003070	Industrial	Diesel Terminal Tractors	MOVES	5.6039	0.0183	76.1%	population	4.2645	0.0139
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0005	0.0000	76.1%	population	0.0004	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.1009	0.0000	76.1%	population	0.0768	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	2.7149	0.0148	76.1%	population	2.0661	0.0113
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.5614	0.0031	76.1%	population	0.4272	0.0023
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	3.6245	0.0198	76.1%	population	2.7583	0.0150
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.3128	0.0017	76.1%	population	0.2380	0.0013
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0105	0.0001	76.1%	population	0.0080	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0017	0.0000	24.2%	land area (1)	0.0004	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	70.8509	0.3862	24.2%	land area (1)	17.1459	0.0935
2270005020	Agriculture	Diesel Combines	MOVES	7.6895	0.0419	24.2%	land area (1)	1.8609	0.0101
2270005025	Agriculture	Diesel Balers	MOVES	0.0412	0.0002	24.2%	land area (1)	0.0100	0.0001

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 NO _x Emissions		% in NAA	Allocate by	Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0075	0.0000	24.2%	land area (1)	0.0018	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.6182	0.0034	24.2%	land area (1)	0.1496	0.0008
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0010	0.0000	24.2%	land area (1)	0.0003	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.5829	0.0032	24.2%	land area (1)	0.1411	0.0008
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	1.5198	0.0083	24.2%	land area (1)	0.3678	0.0020
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	0.9015	0.0049	24.2%	land area (1)	0.2182	0.0012
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	10.1570	0.0276	76.1%	population	7.7295	0.0210
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	2.3797	0.0065	76.1%	population	1.8110	0.0049
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	4.8906	0.0133	76.1%	population	3.7218	0.0101
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	3.1487	0.0086	76.1%	population	2.3962	0.0065
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.3400	0.0009	76.1%	population	0.2588	0.0007
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.2189	0.0006	76.1%	population	0.1666	0.0005
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidders	MOVES	0.1484	0.0004	30.9%	land area	0.0458	0.0001
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0072	0.0000	100.0%	airport location (2)	0.0072	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	0.8881	0.0025	59.6%	airport location (2)	0.5282	0.0015
2275050012	Aircraft	General Aviation, Turbine	USEPA	1.6815	0.0047	61.2%	airport location (2)	1.0322	0.0029
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0233	0.0001	100.0%	airport location (2)	0.0228	0.0001
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.4089	0.0011	100.0%	airport location (2)	0.4008	0.0011
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	48.6081	0.1813	100.0%	Lk. Mich. Shoreline	48.6081	0.1813
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	4.4146	0.0336	69.1%	water area (3)	3.0505	0.0232
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	1.8980	0.0144	69.1%	water area (3)	1.3115	0.0100
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	11.8830	0.0846	69.1%	water area (3)	8.2112	0.0585
2282020005	Pleasure Craft	Diesel Inboards	MOVES	12.5270	0.0953	69.1%	water area (3)	8.6562	0.0658
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0152	0.0001	69.1%	water area (3)	0.0105	0.0001
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	224.6145	0.6205	60.0%	rail links (4)	134.7295	0.3722
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.1028	0.0003	60.0%	rail links (4)	0.0616	0.0002
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.2943	0.0008	60.0%	rail links (4)	0.1765	0.0005
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.7025	0.0019	60.0%	rail links (4)	0.4215	0.0011
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0093	0.0000	60.0%	rail links (4)	0.0056	0.0000
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0008	0.0000	60.0%	rail links (4)	0.0005	0.0000
ALL	ALL	ALL		737.2830	2.6340			489.2096	1.6890

(1) City of Kenosha excluded

- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (81 sq. km. for county and 56 sq. km., 69.1%, for nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/

Table D-4

Sheboygan County and Proposed Sub-County Nonattainment Area 2015 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	0.6239	0.0031	21.0%	land area	0.1310	0.0007
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	4.4694	0.0000	21.0%	land area	0.9386	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	0.9066	0.0045	21.0%	land area	0.1904	0.0009
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.1297	0.0006	21.0%	land area	0.0272	0.0001
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	0.0311	0.0001	69.4%	population	0.0216	0.0001
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0021	0.0000	69.4%	population	0.0014	0.0000
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0025	0.0000	69.4%	population	0.0017	0.0000
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0000	0.0000	69.4%	population	0.0000	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	0.0816	0.0003	69.4%	population	0.0567	0.0002
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0005	0.0000	69.4%	population	0.0003	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0014	0.0000	69.4%	population	0.0010	0.0000
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0001	0.0000	69.4%	population	0.0001	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.0096	0.0001	69.4%	population	0.0066	0.0000
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.0205	0.0001	69.4%	population	0.0142	0.0001
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	0.1311	0.0004	69.4%	population	0.0910	0.0002
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	0.2264	0.0006	69.4%	population	0.1571	0.0004
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1838	0.0010	69.4%	population	0.1276	0.0007
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1988	0.0011	69.4%	population	0.1379	0.0008
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1175	0.0006	69.4%	population	0.0816	0.0004
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.1843	0.0010	69.4%	population	0.1279	0.0007
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	0.0422	0.0000	69.4%	population	0.0293	0.0000
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	0.0436	0.0000	69.4%	population	0.0303	0.0000
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0001	0.0000	69.4%	population	0.0001	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0059	0.0000	18.0%	land area (1)	0.0011	0.0000
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.0141	0.0000	69.4%	population	0.0098	0.0000
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	0.0958	0.0003	69.4%	population	0.0665	0.0002
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0000	0.0000	69.4%	population	0.0000	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0006	0.0000	69.4%	population	0.0004	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.0073	0.0000	21.0%	land area	0.0015	0.0000
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	0.5117	0.0022	21.0%	land area	0.1075	0.0005
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	4.3339	0.0187	21.0%	land area	0.9101	0.0039

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2265001050	Recreational	4-Stroke Golf Carts	MOVES	1.9420	0.0084	21.0%	land area	0.4078	0.0018
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.2205	0.0010	21.0%	land area	0.0463	0.0002
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0345	0.0001	69.4%	population	0.0240	0.0001
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0003	0.0000	69.4%	population	0.0002	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.0582	0.0002	69.4%	population	0.0404	0.0001
2265002015	Construction	4-Stroke Rollers	MOVES	0.0542	0.0001	69.4%	population	0.0376	0.0001
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.1235	0.0003	69.4%	population	0.0857	0.0002
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.0456	0.0001	69.4%	population	0.0317	0.0001
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0023	0.0000	69.4%	population	0.0016	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.1083	0.0003	69.4%	population	0.0751	0.0002
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.0573	0.0002	69.4%	population	0.0398	0.0001
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.1950	0.0005	69.4%	population	0.1354	0.0004
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.1280	0.0003	69.4%	population	0.0888	0.0002
2265002045	Construction	4-Stroke Cranes	MOVES	0.0227	0.0001	69.4%	population	0.0158	0.0000
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0149	0.0000	69.4%	population	0.0103	0.0000
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0230	0.0001	69.4%	population	0.0160	0.0000
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0333	0.0001	69.4%	population	0.0231	0.0001
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.0640	0.0002	69.4%	population	0.0444	0.0001
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.0938	0.0002	69.4%	population	0.0651	0.0002
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0223	0.0001	69.4%	population	0.0154	0.0000
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0382	0.0001	69.4%	population	0.0265	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.8523	0.0023	69.4%	population	0.5915	0.0016
2265003020	Industrial	4-Stroke Forklifts	MOVES	0.9639	0.0026	69.4%	population	0.6689	0.0018
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.1573	0.0004	69.4%	population	0.1092	0.0003
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.2709	0.0007	69.4%	population	0.1880	0.0005
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0490	0.0001	69.4%	population	0.0340	0.0001
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0015	0.0000	69.4%	population	0.0010	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0456	0.0001	69.4%	population	0.0317	0.0001
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	1.9530	0.0094	69.4%	population	1.3554	0.0065
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	0.5586	0.0027	69.4%	population	0.3877	0.0019
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.1637	0.0008	69.4%	population	0.1136	0.0005
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.3228	0.0015	69.4%	population	0.2240	0.0011
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0099	0.0000	69.4%	population	0.0069	0.0000
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0131	0.0001	69.4%	population	0.0091	0.0000
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.0190	0.0001	69.4%	population	0.0132	0.0001
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	0.6416	0.0031	69.4%	population	0.4453	0.0021
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	0.3429	0.0000	69.4%	population	0.2379	0.0000
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	0.3544	0.0000	69.4%	population	0.2459	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	0.4070	0.0020	69.4%	population	0.2825	0.0014
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.0643	0.0003	69.4%	population	0.0446	0.0002
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.1083	0.0005	69.4%	population	0.0751	0.0004
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.0386	0.0002	69.4%	population	0.0268	0.0001
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	5.4478	0.0261	69.4%	population	3.7808	0.0181
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	0.8736	0.0042	69.4%	population	0.6063	0.0029
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.1513	0.0007	69.4%	population	0.1050	0.0005
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	2.7329	0.0131	69.4%	population	1.8966	0.0091
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.2149	0.0010	69.4%	population	0.1492	0.0007
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.1195	0.0006	69.4%	population	0.0829	0.0004
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0139	0.0001	18.0%	land area (1)	0.0025	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0678	0.0003	18.0%	land area (1)	0.0122	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0018	0.0000	18.0%	land area (1)	0.0003	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.1745	0.0008	18.0%	land area (1)	0.0314	0.0002
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0146	0.0001	18.0%	land area (1)	0.0026	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.2887	0.0014	18.0%	land area (1)	0.0520	0.0002
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.4630	0.0022	18.0%	land area (1)	0.0833	0.0004
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.2764	0.0013	18.0%	land area (1)	0.0498	0.0002
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.3271	0.0016	18.0%	land area (1)	0.0589	0.0003
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0928	0.0004	18.0%	land area (1)	0.0167	0.0001
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	4.0124	0.0087	69.4%	population	2.7846	0.0060
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	0.9465	0.0020	69.4%	population	0.6569	0.0014
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	0.4900	0.0011	69.4%	population	0.3401	0.0007
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	0.9930	0.0021	69.4%	population	0.6891	0.0015
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	1.4979	0.0032	69.4%	population	1.0396	0.0023
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.0677	0.0001	69.4%	population	0.0470	0.0001
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0280	0.0001	21.0%	land area	0.0059	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0002	0.0000	21.0%	land area	0.0000	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0003	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0418	0.0002	21.0%	land area	0.0088	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0102	0.0000	69.4%	population	0.0071	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0100	0.0000	69.4%	population	0.0069	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0057	0.0000	69.4%	population	0.0040	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0017	0.0000	69.4%	population	0.0012	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0326	0.0001	69.4%	population	0.0226	0.0001
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0324	0.0001	69.4%	population	0.0225	0.0001
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0142	0.0000	69.4%	population	0.0099	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2267002045	Construction	LPG Cranes	MOVES	0.0228	0.0001	69.4%	population	0.0158	0.0001
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0035	0.0000	69.4%	population	0.0024	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0240	0.0001	69.4%	population	0.0167	0.0001
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0343	0.0001	69.4%	population	0.0238	0.0001
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0030	0.0000	69.4%	population	0.0021	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0751	0.0002	69.4%	population	0.0521	0.0002
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0383	0.0001	69.4%	population	0.0266	0.0001
2267003010	Industrial	LPG Aerial Lifts	MOVES	1.8828	0.0061	69.4%	population	1.3066	0.0043
2267003020	Industrial	LPG Forklifts	MOVES	57.5714	0.1879	69.4%	population	39.9546	0.1304
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.3537	0.0012	69.4%	population	0.2455	0.0008
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.1184	0.0004	69.4%	population	0.0822	0.0003
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0901	0.0003	69.4%	population	0.0626	0.0002
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.1749	0.0006	69.4%	population	0.1214	0.0004
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.0578	0.0003	69.4%	population	0.0401	0.0002
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0035	0.0000	18.0%	land area (1)	0.0006	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0004	0.0000	18.0%	land area (1)	0.0001	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	1.7454	0.0047	69.4%	population	1.2113	0.0033
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.2518	0.0007	69.4%	population	0.1747	0.0005
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.1745	0.0005	69.4%	population	0.1211	0.0003
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.2360	0.0006	69.4%	population	0.1638	0.0004
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0061	0.0000	69.4%	population	0.0042	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0024	0.0000	69.4%	population	0.0017	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0014	0.0000	69.4%	population	0.0010	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	4.1283	0.0135	69.4%	population	2.8651	0.0094
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0048	0.0000	69.4%	population	0.0033	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0028	0.0000	69.4%	population	0.0019	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0023	0.0000	69.4%	population	0.0016	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0125	0.0000	69.4%	population	0.0087	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0014	0.0000	18.0%	land area (1)	0.0002	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0000	0.0000	18.0%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.5311	0.0014	69.4%	population	0.3686	0.0010
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0196	0.0001	69.4%	population	0.0136	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0133	0.0000	69.4%	population	0.0092	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.2285	0.0006	69.4%	population	0.1586	0.0004
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.6104	0.0030	21.0%	land area	0.1282	0.0006

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270002003	Construction	Diesel Pavers	MOVES	1.9968	0.0064	69.4%	population	1.3858	0.0045
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0061	0.0000	69.4%	population	0.0042	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.0983	0.0003	69.4%	population	0.0682	0.0002
2270002015	Construction	Diesel Rollers	MOVES	5.5252	0.0177	69.4%	population	3.8345	0.0123
2270002018	Construction	Diesel Scrapers	MOVES	5.5547	0.0178	69.4%	population	3.8550	0.0124
2270002021	Construction	Diesel Paving Equipment	MOVES	0.3685	0.0012	69.4%	population	0.2557	0.0008
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.2913	0.0009	69.4%	population	0.2022	0.0006
2270002027	Construction	Diesel Signal Boards	MOVES	0.9600	0.0031	69.4%	population	0.6662	0.0021
2270002030	Construction	Diesel Trenchers	MOVES	3.2967	0.0106	69.4%	population	2.2879	0.0073
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	3.9051	0.0125	69.4%	population	2.7101	0.0087
2270002036	Construction	Diesel Excavators	MOVES	16.5274	0.0531	69.4%	population	11.4700	0.0368
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.2367	0.0008	69.4%	population	0.1642	0.0005
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.1586	0.0005	69.4%	population	0.1100	0.0004
2270002045	Construction	Diesel Cranes	MOVES	5.3781	0.0173	69.4%	population	3.7324	0.0120
2270002048	Construction	Diesel Graders	MOVES	4.1284	0.0133	69.4%	population	2.8651	0.0092
2270002051	Construction	Diesel Off-highway Trucks	MOVES	18.1522	0.0583	69.4%	population	12.5976	0.0405
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	1.0862	0.0035	69.4%	population	0.7538	0.0024
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	7.6409	0.0245	69.4%	population	5.3028	0.0170
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	26.0897	0.0838	69.4%	population	18.1063	0.0582
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	20.7258	0.0666	69.4%	population	14.3837	0.0462
2270002069	Construction	Diesel Crawler Tractors	MOVES	20.7111	0.0665	69.4%	population	14.3735	0.0462
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	15.7566	0.0506	69.4%	population	10.9351	0.0351
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	3.0548	0.0098	69.4%	population	2.1200	0.0068
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0515	0.0002	69.4%	population	0.0357	0.0001
2270002081	Construction	Diesel Other Construction Equipment	MOVES	2.9901	0.0096	69.4%	population	2.0751	0.0067
2270003010	Industrial	Diesel Aerial Lifts	MOVES	3.3540	0.0109	69.4%	population	2.3277	0.0076
2270003020	Industrial	Diesel Forklifts	MOVES	19.2918	0.0630	69.4%	population	13.3885	0.0437
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	11.1542	0.0364	69.4%	population	7.7410	0.0253
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	13.9657	0.0456	69.4%	population	9.6922	0.0316
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.8411	0.0027	69.4%	population	0.5837	0.0019
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	12.9366	0.0422	69.4%	population	8.9780	0.0293
2270003070	Industrial	Diesel Terminal Tractors	MOVES	11.2783	0.0368	69.4%	population	7.8272	0.0255
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0004	0.0000	69.4%	population	0.0003	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0769	0.0000	69.4%	population	0.0534	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	2.0698	0.0113	69.4%	population	1.4364	0.0078
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.4280	0.0023	69.4%	population	0.2970	0.0016
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	2.7632	0.0151	69.4%	population	1.9177	0.0105
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.2384	0.0013	69.4%	population	0.1655	0.0009

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0080	0.0000	69.4%	population	0.0056	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0036	0.0000	18.0%	land area (1)	0.0007	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	150.8738	0.8224	18.0%	land area (1)	27.1573	0.1480
2270005020	Agriculture	Diesel Combines	MOVES	16.3745	0.0893	18.0%	land area (1)	2.9474	0.0161
2270005025	Agriculture	Diesel Balers	MOVES	0.0877	0.0005	18.0%	land area (1)	0.0158	0.0001
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0160	0.0001	18.0%	land area (1)	0.0029	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	1.3164	0.0072	18.0%	land area (1)	0.2370	0.0013
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0022	0.0000	18.0%	land area (1)	0.0004	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	1.2412	0.0068	18.0%	land area (1)	0.2234	0.0012
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	3.2363	0.0176	18.0%	land area (1)	0.5825	0.0032
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	1.9196	0.0105	18.0%	land area (1)	0.3455	0.0019
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	9.0449	0.0246	69.4%	population	6.2772	0.0171
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	2.1192	0.0058	69.4%	population	1.4707	0.0040
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	4.3552	0.0118	69.4%	population	3.0225	0.0082
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	2.8040	0.0076	69.4%	population	1.9459	0.0053
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.3028	0.0008	69.4%	population	0.2101	0.0006
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.1950	0.0005	69.4%	population	0.1353	0.0004
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.3336	0.0009	21.0%	land area	0.0701	0.0002
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0013	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0197	0.0001	0.0%	airport location (2)	0.0000	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	0.6832	0.0019	1.5%	airport location (2)	0.0102	0.0000
2275050012	Aircraft	General Aviation, Turbine	USEPA	1.3536	0.0037	0.8%	airport location (2)	0.0108	0.0000
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.7350	0.0020	0.0%	airport location (2)	0.0000	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0002	0.0000	0.0%	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	31.6916	0.1191	100.0%	Lk. Mich. Shoreline	31.6916	0.1191
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	4.9444	0.0376	81.0%	water area (3)	4.0049	0.0305
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	2.1257	0.0162	81.0%	water area (3)	1.7218	0.0131
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	21.6025	0.1535	81.0%	water area (3)	17.4980	0.1243
2282020005	Pleasure Craft	Diesel Inboards	MOVES	22.4249	0.1706	81.0%	water area (3)	18.1641	0.1381
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0170	0.0001	81.0%	water area (3)	0.0138	0.0001
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	11.3085	0.0312	50.0%	rail routes (4)	5.6542	0.0156
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	20.3387	0.0562	50.0%	rail routes (4)	10.1694	0.0281
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.1447	0.0004	50.0%	rail routes (4)	0.0723	0.0002
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0020	0.0000	50.0%	rail routes (4)	0.0010	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 NO _x Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 NO _x Emissions	
				tpy	tpsd			tpy	tpsd
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0002	0.0000	50.0%	rail routes (4)	0.0001	0.0000
ALL	ALL	ALL		665.5835	2.7644			371.7267	1.4610

- (1) Cities of Plymouth, Sheboygan and Sheboygan Falls excluded
- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (145 sq. km. for county and 117 sq. km., 81%, for proposed nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Two major rail routes traverse the length of Sheboygan County, one in the proposed sub-county nonattainment area and the other not in that area.

Table D-5

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2011 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2011 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	28.0708	0.1399	30.9%	land area	8.6739	0.0432
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	32.5568	0.1623	30.9%	land area	10.0601	0.0502
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.2580	0.0013	30.9%	land area	0.0797	0.0004
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	1.6918	0.0055	76.1%	population	1.2875	0.0042
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0608	0.0002	76.1%	population	0.0462	0.0002
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0725	0.0002	76.1%	population	0.0551	0.0002
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0006	0.0000	76.1%	population	0.0004	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	4.3122	0.0139	76.1%	population	3.2816	0.0106
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0148	0.0000	76.1%	population	0.0112	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0313	0.0001	76.1%	population	0.0238	0.0001
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0024	0.0000	76.1%	population	0.0018	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.3853	0.0021	76.1%	population	0.2932	0.0016
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.6325	0.0034	76.1%	population	0.4813	0.0026
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	5.8497	0.0167	76.1%	population	4.4516	0.0127
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	14.0993	0.0384	76.1%	population	10.7295	0.0292
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	7.1723	0.0389	76.1%	population	5.4581	0.0296
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	7.2238	0.0394	76.1%	population	5.4973	0.0300
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	4.5776	0.0247	76.1%	population	3.4835	0.0188
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	7.1568	0.0390	76.1%	population	5.4463	0.0297
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	7.2737	0.0031	76.1%	population	5.5353	0.0024
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	6.8789	0.0002	76.1%	population	5.2348	0.0001
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0024	0.0000	76.1%	population	0.0018	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0594	0.0003	24.2%	land area (1)	0.0144	0.0001
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.4336	0.0012	76.1%	population	0.3300	0.0009
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	3.0810	0.0085	76.1%	population	2.3446	0.0064
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0012	0.0000	76.1%	population	0.0009	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0190	0.0001	76.1%	population	0.0144	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.1473	0.0004	30.9%	land area	0.0455	0.0001
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	1.1216	0.0055	30.9%	land area	0.3466	0.0017
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	12.6059	0.0625	30.9%	land area	3.8952	0.0193
2265001050	Recreational	4-Stroke Golf Carts	MOVES	3.1168	0.0151	30.9%	land area	0.9631	0.0047

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				tpy	tpsd			tpy	tpsd
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.2612	0.0013	30.9%	land area	0.0807	0.0004
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.1257	0.0004	76.1%	population	0.0956	0.0003
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0011	0.0000	76.1%	population	0.0009	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.4409	0.0014	76.1%	population	0.3355	0.0011
2265002015	Construction	4-Stroke Rollers	MOVES	0.1999	0.0006	76.1%	population	0.1521	0.0005
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.6430	0.0021	76.1%	population	0.4893	0.0016
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.2503	0.0008	76.1%	population	0.1905	0.0006
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0149	0.0000	76.1%	population	0.0113	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.4712	0.0015	76.1%	population	0.3586	0.0011
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.2671	0.0009	76.1%	population	0.2032	0.0007
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.7208	0.0023	76.1%	population	0.5486	0.0017
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.7612	0.0027	76.1%	population	0.5792	0.0021
2265002045	Construction	4-Stroke Cranes	MOVES	0.0263	0.0001	76.1%	population	0.0200	0.0001
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0652	0.0002	76.1%	population	0.0496	0.0002
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0303	0.0001	76.1%	population	0.0231	0.0001
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0461	0.0001	76.1%	population	0.0351	0.0001
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.2580	0.0008	76.1%	population	0.1964	0.0006
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1649	0.0005	76.1%	population	0.1255	0.0004
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.1084	0.0004	76.1%	population	0.0825	0.0003
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0360	0.0001	76.1%	population	0.0274	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.5481	0.0018	76.1%	population	0.4171	0.0014
2265003020	Industrial	4-Stroke Forklifts	MOVES	0.8330	0.0027	76.1%	population	0.6339	0.0020
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.2840	0.0009	76.1%	population	0.2161	0.0007
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	1.3375	0.0043	76.1%	population	1.0178	0.0032
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0374	0.0001	76.1%	population	0.0285	0.0001
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0132	0.0000	76.1%	population	0.0100	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0242	0.0001	76.1%	population	0.0184	0.0001
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	33.6299	0.1792	76.1%	population	25.5924	0.1363
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	7.5653	0.0405	76.1%	population	5.7572	0.0308
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	2.8594	0.0152	76.1%	population	2.1760	0.0116
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	4.5468	0.0243	76.1%	population	3.4601	0.0185
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1782	0.0010	76.1%	population	0.1356	0.0007
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1541	0.0008	76.1%	population	0.1173	0.0006
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.3080	0.0016	76.1%	population	0.2344	0.0012
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	3.3058	0.0178	76.1%	population	2.5157	0.0135
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	3.0203	0.0061	76.1%	population	2.2984	0.0046
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	1.9569	0.0004	76.1%	population	1.4892	0.0003
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	3.0164	0.0160	76.1%	population	2.2955	0.0122
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.3302	0.0018	76.1%	population	0.2512	0.0013

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2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.4746	0.0025	76.1%	population	0.3612	0.0019
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.5447	0.0029	76.1%	population	0.4145	0.0022
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	32.5158	0.1727	76.1%	population	24.7445	0.1314
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	4.2400	0.0227	76.1%	population	3.2267	0.0172
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.4840	0.0026	76.1%	population	0.3683	0.0020
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	14.7769	0.0788	76.1%	population	11.2452	0.0600
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	2.0028	0.0106	76.1%	population	1.5241	0.0081
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	1.0819	0.0057	76.1%	population	0.8234	0.0044
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0237	0.0001	24.2%	land area (1)	0.0057	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0473	0.0003	24.2%	land area (1)	0.0115	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0007	0.0000	24.2%	land area (1)	0.0002	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.0755	0.0004	24.2%	land area (1)	0.0183	0.0001
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0229	0.0001	24.2%	land area (1)	0.0055	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.3528	0.0019	24.2%	land area (1)	0.0854	0.0005
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.8952	0.0048	24.2%	land area (1)	0.2166	0.0012
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.1069	0.0006	24.2%	land area (1)	0.0259	0.0001
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.1487	0.0008	24.2%	land area (1)	0.0360	0.0002
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0569	0.0003	24.2%	land area (1)	0.0138	0.0001
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	17.6724	0.0539	76.1%	population	13.4487	0.0410
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	5.0766	0.0139	76.1%	population	3.8633	0.0106
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	2.0867	0.0056	76.1%	population	1.5880	0.0043
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	3.5247	0.0095	76.1%	population	2.6823	0.0072
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	9.1449	0.0258	76.1%	population	6.9593	0.0196
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.3145	0.0008	76.1%	population	0.2393	0.0006
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0393	0.0001	30.9%	land area	0.0121	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0006	0.0000	30.9%	land area	0.0002	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0046	0.0000	30.9%	land area	0.0014	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0066	0.0000	76.1%	population	0.0050	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0059	0.0000	76.1%	population	0.0045	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0028	0.0000	76.1%	population	0.0021	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0010	0.0000	76.1%	population	0.0008	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0215	0.0001	76.1%	population	0.0164	0.0001
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0128	0.0000	76.1%	population	0.0097	0.0000
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0062	0.0000	76.1%	population	0.0047	0.0000
2267002045	Construction	LPG Cranes	MOVES	0.0111	0.0000	76.1%	population	0.0085	0.0000
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0018	0.0000	76.1%	population	0.0013	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0158	0.0001	76.1%	population	0.0120	0.0000

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2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0259	0.0001	76.1%	population	0.0197	0.0001
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0020	0.0000	76.1%	population	0.0015	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0373	0.0001	76.1%	population	0.0284	0.0001
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0176	0.0001	76.1%	population	0.0134	0.0000
2267003010	Industrial	LPG Aerial Lifts	MOVES	0.3533	0.0012	76.1%	population	0.2688	0.0009
2267003020	Industrial	LPG Forklifts	MOVES	17.4239	0.0569	76.1%	population	13.2596	0.0433
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.0783	0.0003	76.1%	population	0.0596	0.0002
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.0308	0.0001	76.1%	population	0.0235	0.0001
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0186	0.0001	76.1%	population	0.0141	0.0000
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.0241	0.0001	76.1%	population	0.0183	0.0001
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial	MOVES	0.0425	0.0002	76.1%	population	0.0324	0.0002
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0006	0.0000	24.2%	land area (1)	0.0001	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0001	0.0000	24.2%	land area (1)	0.0000	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	0.4649	0.0013	76.1%	population	0.3538	0.0010
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.0812	0.0002	76.1%	population	0.0618	0.0002
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.0786	0.0002	76.1%	population	0.0598	0.0002
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.1397	0.0004	76.1%	population	0.1063	0.0003
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0025	0.0000	76.1%	population	0.0019	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0010	0.0000	76.1%	population	0.0007	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	0.0736	0.0002	76.1%	population	0.0560	0.0002
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003060	Industrial	CNG ACRrefrigeration	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0000	0.0000	24.2%	land area (1)	0.0000	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0001	0.0000	24.2%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.0085	0.0000	76.1%	population	0.0065	0.0000
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0004	0.0000	76.1%	population	0.0003	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0004	0.0000	76.1%	population	0.0003	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.0023	0.0000	76.1%	population	0.0018	0.0000
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.0572	0.0003	30.9%	land area	0.0177	0.0001
2270002003	Construction	Diesel Pavers	MOVES	0.2784	0.0009	76.1%	population	0.2119	0.0007
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0012	0.0000	76.1%	population	0.0009	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.0184	0.0001	76.1%	population	0.0140	0.0000
2270002015	Construction	Diesel Rollers	MOVES	0.7560	0.0024	76.1%	population	0.5753	0.0018

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2270002018	Construction	Diesel Scrapers	MOVES	0.5717	0.0018	76.1%	population	0.4351	0.0014
2270002021	Construction	Diesel Paving Equipment	MOVES	0.0508	0.0002	76.1%	population	0.0387	0.0001
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.0342	0.0001	76.1%	population	0.0260	0.0001
2270002027	Construction	Diesel Signal Boards	MOVES	0.1431	0.0005	76.1%	population	0.1089	0.0003
2270002030	Construction	Diesel Trenchers	MOVES	0.4260	0.0014	76.1%	population	0.3242	0.0010
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	0.4502	0.0014	76.1%	population	0.3426	0.0011
2270002036	Construction	Diesel Excavators	MOVES	2.4001	0.0077	76.1%	population	1.8265	0.0059
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.0313	0.0001	76.1%	population	0.0238	0.0001
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.0239	0.0001	76.1%	population	0.0182	0.0001
2270002045	Construction	Diesel Cranes	MOVES	0.6174	0.0020	76.1%	population	0.4699	0.0015
2270002048	Construction	Diesel Graders	MOVES	0.6069	0.0019	76.1%	population	0.4618	0.0015
2270002051	Construction	Diesel Off-highway Trucks	MOVES	1.8542	0.0060	76.1%	population	1.4110	0.0045
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	0.1211	0.0004	76.1%	population	0.0921	0.0003
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	1.1249	0.0036	76.1%	population	0.8561	0.0027
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	2.9994	0.0096	76.1%	population	2.2825	0.0073
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	6.1447	0.0197	76.1%	population	4.6761	0.0150
2270002069	Construction	Diesel Crawler Tractors	MOVES	2.4677	0.0079	76.1%	population	1.8779	0.0060
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	5.4493	0.0175	76.1%	population	4.1469	0.0133
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	0.3007	0.0010	76.1%	population	0.2288	0.0007
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0187	0.0001	76.1%	population	0.0142	0.0000
2270002081	Construction	Diesel Other Construction Equipment	MOVES	0.3265	0.0010	76.1%	population	0.2484	0.0008
2270003010	Industrial	Diesel Aerial Lifts	MOVES	0.4783	0.0016	76.1%	population	0.3640	0.0012
2270003020	Industrial	Diesel Forklifts	MOVES	1.1963	0.0039	76.1%	population	0.9104	0.0030
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	0.6511	0.0021	76.1%	population	0.4955	0.0016
2270003040	Industrial	Diesel Other General Industrial Equipmen	MOVES	0.7539	0.0025	76.1%	population	0.5737	0.0019
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.0873	0.0003	76.1%	population	0.0664	0.0002
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	1.6196	0.0053	76.1%	population	1.2325	0.0040
2270003070	Industrial	Diesel Terminal Tractors	MOVES	0.7741	0.0025	76.1%	population	0.5891	0.0019
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0089	0.0000	76.1%	population	0.0068	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	0.3207	0.0017	76.1%	population	0.2441	0.0013
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.0677	0.0004	76.1%	population	0.0515	0.0003
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	0.3741	0.0020	76.1%	population	0.2847	0.0016
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.0300	0.0002	76.1%	population	0.0228	0.0001
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0013	0.0000	76.1%	population	0.0010	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0003	0.0000	24.2%	land area (1)	0.0001	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	7.9834	0.0435	24.2%	land area (1)	1.9320	0.0105
2270005020	Agriculture	Diesel Combines	MOVES	0.7853	0.0043	24.2%	land area (1)	0.1900	0.0010
2270005025	Agriculture	Diesel Balers	MOVES	0.0067	0.0000	24.2%	land area (1)	0.0016	0.0000

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2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0012	0.0000	24.2%	land area (1)	0.0003	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.0892	0.0005	24.2%	land area (1)	0.0216	0.0001
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0001	0.0000	24.2%	land area (1)	0.0000	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.0758	0.0004	24.2%	land area (1)	0.0183	0.0001
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	0.1836	0.0010	24.2%	land area (1)	0.0444	0.0002
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	0.1059	0.0006	24.2%	land area (1)	0.0256	0.0001
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	1.3065	0.0036	76.1%	population	0.9943	0.0027
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	0.2940	0.0008	76.1%	population	0.2237	0.0006
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	0.5344	0.0015	76.1%	population	0.4067	0.0011
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	0.9349	0.0025	76.1%	population	0.7114	0.0019
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.0436	0.0001	76.1%	population	0.0332	0.0001
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.0237	0.0001	76.1%	population	0.0181	0.0000
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidders	MOVES	0.0218	0.0001	30.9%	land area	0.0067	0.0000
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0642	0.0002	100.0%	airport location (2)	0.0642	0.0002
2275050011	Aircraft	General Aviation, Piston	USEPA	2.0407	0.0057	59.6%	airport location (2)	1.2168	0.0034
2275050012	Aircraft	General Aviation, Turbine	USEPA	3.5550	0.0099	61.2%	airport location (2)	2.1876	0.0061
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0204	0.0001	100.0%	airport location (2)	0.0199	0.0001
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.4333	0.0012	100.0%	airport location (2)	0.4224	0.0012
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	1.9142	0.0073	100.0%	Lk. Mich. Shoreline	1.9142	0.0073
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	53.9698	0.3915	69.1%	water area (3)	37.2932	0.2705
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	14.3904	0.1083	69.1%	water area (3)	9.9437	0.0749
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	12.3780	0.0802	69.1%	water area (3)	8.5532	0.0554
2282020005	Pleasure Craft	Diesel Inboards	MOVES	0.5691	0.0043	69.1%	water area (3)	0.3932	0.0030
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0032	0.0000	69.1%	water area (3)	0.0022	0.0000
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	12.2587	0.0339	60.0%	rail links (4)	7.3531	0.0203
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.1400	0.0004	60.0%	rail links (4)	0.0840	0.0002
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0357	0.0001	60.0%	rail links (4)	0.0214	0.0001
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0004	0.0000	60.0%	rail links (4)	0.0002	0.0000
ALL	ALL	ALL		480.2606	2.2452			316.4037	1.4550

(1) City of Kenosha excluded

- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (81 sq. km. for county and 56 sq. km., 69.1%, for nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/

Table D-6

Sheboygan County and Proposed Sub-County Nonattainment Area 2011 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	84.0999	0.4194	21.0%	land area	17.6610	0.0881
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	116.5723	0.0208	21.0%	land area	24.4802	0.0044
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	97.5016	0.4864	21.0%	land area	20.4753	0.1021
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.7559	0.0038	21.0%	land area	0.1587	0.0008
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	1.3984	0.0045	69.2%	population	0.9677	0.0031
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0502	0.0002	69.2%	population	0.0347	0.0001
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0598	0.0002	69.2%	population	0.0414	0.0001
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0005	0.0000	69.2%	population	0.0003	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	3.5667	0.0115	69.2%	population	2.4681	0.0079
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0122	0.0000	69.2%	population	0.0084	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0629	0.0002	69.2%	population	0.0435	0.0001
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0048	0.0000	69.2%	population	0.0033	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.2892	0.0016	69.2%	population	0.2001	0.0011
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.4818	0.0026	69.2%	population	0.3334	0.0018
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	4.4236	0.0126	69.2%	population	3.0612	0.0087
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	10.7457	0.0293	69.2%	population	7.4360	0.0202
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	5.3776	0.0293	69.2%	population	3.7213	0.0203
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	5.5022	0.0300	69.2%	population	3.8075	0.0208
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	3.3943	0.0185	69.2%	population	2.3488	0.0128
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	5.4515	0.0297	69.2%	population	3.7724	0.0206
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	5.4858	0.0022	69.2%	population	3.7962	0.0016
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	5.2414	0.0001	69.2%	population	3.6271	0.0001
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0018	0.0000	69.2%	population	0.0012	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.1255	0.0007	18.0%	land area (1)	0.0226	0.0001
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.3852	0.0011	69.2%	population	0.2666	0.0007
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	2.7404	0.0075	69.2%	population	1.8963	0.0052
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0011	0.0000	69.2%	population	0.0008	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0169	0.0000	69.2%	population	0.0117	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.3311	0.0009	21.0%	land area	0.0695	0.0002
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	3.3186	0.0165	21.0%	land area	0.6969	0.0035
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	37.3146	0.1859	21.0%	land area	7.8361	0.0390

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2265001050	Recreational	4-Stroke Golf Carts	MOVES	6.8574	0.0333	21.0%	land area	1.4401	0.0070
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.7720	0.0038	21.0%	land area	0.1621	0.0008
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.1039	0.0003	69.2%	population	0.0719	0.0002
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0009	0.0000	69.2%	population	0.0006	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.3645	0.0012	69.2%	population	0.2523	0.0008
2265002015	Construction	4-Stroke Rollers	MOVES	0.1652	0.0005	69.2%	population	0.1143	0.0004
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.5278	0.0018	69.2%	population	0.3652	0.0012
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.2069	0.0007	69.2%	population	0.1432	0.0005
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0123	0.0000	69.2%	population	0.0085	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.3896	0.0012	69.2%	population	0.2696	0.0009
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.2193	0.0007	69.2%	population	0.1518	0.0005
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.5966	0.0019	69.2%	population	0.4128	0.0013
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.6190	0.0022	69.2%	population	0.4283	0.0015
2265002045	Construction	4-Stroke Cranes	MOVES	0.0216	0.0001	69.2%	population	0.0150	0.0000
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0538	0.0002	69.2%	population	0.0372	0.0001
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0249	0.0001	69.2%	population	0.0173	0.0001
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0379	0.0001	69.2%	population	0.0263	0.0001
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.2134	0.0007	69.2%	population	0.1477	0.0005
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1355	0.0004	69.2%	population	0.0937	0.0003
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0881	0.0003	69.2%	population	0.0609	0.0002
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0296	0.0001	69.2%	population	0.0205	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	1.0957	0.0036	69.2%	population	0.7582	0.0025
2265003020	Industrial	4-Stroke Forklifts	MOVES	1.6760	0.0053	69.2%	population	1.1598	0.0037
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.5705	0.0018	69.2%	population	0.3948	0.0013
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	2.6936	0.0086	69.2%	population	1.8640	0.0059
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0748	0.0002	69.2%	population	0.0518	0.0002
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0097	0.0000	69.2%	population	0.0067	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0483	0.0002	69.2%	population	0.0335	0.0001
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	25.2195	0.1350	69.2%	population	17.4519	0.0934
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	5.7716	0.0309	69.2%	population	3.9939	0.0214
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	2.1485	0.0115	69.2%	population	1.4867	0.0080
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	3.4712	0.0186	69.2%	population	2.4021	0.0128
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1342	0.0007	69.2%	population	0.0929	0.0005
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1176	0.0006	69.2%	population	0.0813	0.0004
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.2287	0.0012	69.2%	population	0.1583	0.0008
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	2.5202	0.0135	69.2%	population	1.7440	0.0094
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	2.2246	0.0044	69.2%	population	1.5394	0.0030
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	1.4918	0.0003	69.2%	population	1.0323	0.0002

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	2.2099	0.0119	69.2%	population	1.5292	0.0082
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.2511	0.0013	69.2%	population	0.1738	0.0009
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.3569	0.0019	69.2%	population	0.2470	0.0013
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.4149	0.0022	69.2%	population	0.2871	0.0015
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	24.0598	0.1292	69.2%	population	16.6494	0.0894
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	3.2295	0.0173	69.2%	population	2.2348	0.0119
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.3675	0.0020	69.2%	population	0.2543	0.0014
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	11.2504	0.0600	69.2%	population	7.7853	0.0415
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	1.4896	0.0080	69.2%	population	1.0308	0.0055
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.8075	0.0043	69.2%	population	0.5588	0.0030
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0503	0.0003	18.0%	land area (1)	0.0091	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.1006	0.0005	18.0%	land area (1)	0.0181	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0015	0.0000	18.0%	land area (1)	0.0003	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.1553	0.0008	18.0%	land area (1)	0.0280	0.0002
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0483	0.0003	18.0%	land area (1)	0.0087	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.7385	0.0039	18.0%	land area (1)	0.1329	0.0007
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	1.8919	0.0101	18.0%	land area (1)	0.3405	0.0018
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.2220	0.0012	18.0%	land area (1)	0.0400	0.0002
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.3126	0.0017	18.0%	land area (1)	0.0563	0.0003
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.1208	0.0006	18.0%	land area (1)	0.0217	0.0001
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	15.5330	0.0473	69.2%	population	10.7488	0.0328
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	4.5112	0.0124	69.2%	population	3.1217	0.0085
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	1.8571	0.0050	69.2%	population	1.2851	0.0035
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	3.1368	0.0084	69.2%	population	2.1707	0.0058
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	8.1050	0.0228	69.2%	population	5.6087	0.0158
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.2799	0.0008	69.2%	population	0.1937	0.0005
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0875	0.0003	21.0%	land area	0.0184	0.0001
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0013	0.0000	21.0%	land area	0.0003	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0001	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0139	0.0001	21.0%	land area	0.0029	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0055	0.0000	69.2%	population	0.0038	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0049	0.0000	69.2%	population	0.0034	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0023	0.0000	69.2%	population	0.0016	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0009	0.0000	69.2%	population	0.0006	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0178	0.0001	69.2%	population	0.0123	0.0000
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0106	0.0000	69.2%	population	0.0073	0.0000
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0052	0.0000	69.2%	population	0.0036	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2267002045	Construction	LPG Cranes	MOVES	0.0092	0.0000	69.2%	population	0.0064	0.0000
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0015	0.0000	69.2%	population	0.0010	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0131	0.0000	69.2%	population	0.0091	0.0000
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0214	0.0001	69.2%	population	0.0148	0.0000
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0016	0.0000	69.2%	population	0.0011	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0308	0.0001	69.2%	population	0.0213	0.0001
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0146	0.0000	69.2%	population	0.0101	0.0000
2267003010	Industrial	LPG Aerial Lifts	MOVES	0.7110	0.0023	69.2%	population	0.4920	0.0016
2267003020	Industrial	LPG Forklifts	MOVES	35.0673	0.1145	69.2%	population	24.2666	0.0792
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.1575	0.0005	69.2%	population	0.1090	0.0004
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.0621	0.0002	69.2%	population	0.0429	0.0001
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0374	0.0001	69.2%	population	0.0259	0.0001
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.0485	0.0002	69.2%	population	0.0335	0.0001
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.0324	0.0002	69.2%	population	0.0224	0.0001
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0012	0.0000	18.0%	land area (1)	0.0002	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0003	0.0000	18.0%	land area (1)	0.0000	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	0.4140	0.0011	69.2%	population	0.2865	0.0008
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.0723	0.0002	69.2%	population	0.0500	0.0001
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.0700	0.0002	69.2%	population	0.0484	0.0001
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.1244	0.0003	69.2%	population	0.0861	0.0002
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0022	0.0000	69.2%	population	0.0015	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0009	0.0000	69.2%	population	0.0006	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0000	0.0000	69.2%	population	0.0000	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	0.1481	0.0005	69.2%	population	0.1025	0.0003
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0002	0.0000	69.2%	population	0.0001	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0001	0.0000	69.2%	population	0.0001	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0001	0.0000	69.2%	population	0.0000	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0002	0.0000	69.2%	population	0.0001	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0000	0.0000	18.0%	land area (1)	0.0000	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0002	0.0000	18.0%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.0076	0.0000	69.2%	population	0.0052	0.0000
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0003	0.0000	69.2%	population	0.0002	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0003	0.0000	69.2%	population	0.0002	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.0021	0.0000	69.2%	population	0.0014	0.0000
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.1717	0.0009	21.0%	land area	0.0361	0.0002

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2270002003	Construction	Diesel Pavers	MOVES	0.2304	0.0007	69.2%	population	0.1594	0.0005
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0010	0.0000	69.2%	population	0.0007	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.0152	0.0000	69.2%	population	0.0105	0.0000
2270002015	Construction	Diesel Rollers	MOVES	0.6256	0.0020	69.2%	population	0.4329	0.0014
2270002018	Construction	Diesel Scrapers	MOVES	0.4731	0.0015	69.2%	population	0.3274	0.0011
2270002021	Construction	Diesel Paving Equipment	MOVES	0.0420	0.0001	69.2%	population	0.0291	0.0001
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.0283	0.0001	69.2%	population	0.0196	0.0001
2270002027	Construction	Diesel Signal Boards	MOVES	0.1184	0.0004	69.2%	population	0.0819	0.0003
2270002030	Construction	Diesel Trenchers	MOVES	0.3525	0.0011	69.2%	population	0.2439	0.0008
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	0.3725	0.0012	69.2%	population	0.2578	0.0008
2270002036	Construction	Diesel Excavators	MOVES	1.9859	0.0064	69.2%	population	1.3743	0.0044
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.0259	0.0001	69.2%	population	0.0179	0.0001
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.0198	0.0001	69.2%	population	0.0137	0.0000
2270002045	Construction	Diesel Cranes	MOVES	0.5109	0.0016	69.2%	population	0.3535	0.0011
2270002048	Construction	Diesel Graders	MOVES	0.5021	0.0016	69.2%	population	0.3475	0.0011
2270002051	Construction	Diesel Off-highway Trucks	MOVES	1.5342	0.0049	69.2%	population	1.0617	0.0034
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	0.1002	0.0003	69.2%	population	0.0693	0.0002
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	0.9308	0.0030	69.2%	population	0.6441	0.0021
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	2.4818	0.0080	69.2%	population	1.7174	0.0055
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	5.0843	0.0163	69.2%	population	3.5183	0.0113
2270002069	Construction	Diesel Crawler Tractors	MOVES	2.0418	0.0066	69.2%	population	1.4129	0.0045
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	4.5090	0.0145	69.2%	population	3.1202	0.0100
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	0.2488	0.0008	69.2%	population	0.1722	0.0006
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0155	0.0000	69.2%	population	0.0107	0.0000
2270002081	Construction	Diesel Other Construction Equipment	MOVES	0.2701	0.0009	69.2%	population	0.1869	0.0006
2270003010	Industrial	Diesel Aerial Lifts	MOVES	0.9627	0.0031	69.2%	population	0.6662	0.0022
2270003020	Industrial	Diesel Forklifts	MOVES	2.4077	0.0079	69.2%	population	1.6661	0.0054
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	1.3104	0.0043	69.2%	population	0.9068	0.0030
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	1.5173	0.0050	69.2%	population	1.0499	0.0034
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.1756	0.0006	69.2%	population	0.1215	0.0004
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	1.1918	0.0039	69.2%	population	0.8247	0.0027
2270003070	Industrial	Diesel Terminal Tractors	MOVES	1.5580	0.0051	69.2%	population	1.0782	0.0035
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0001	0.0000	69.2%	population	0.0000	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0068	0.0000	69.2%	population	0.0047	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	0.2445	0.0013	69.2%	population	0.1692	0.0009
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.0516	0.0003	69.2%	population	0.0357	0.0002
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	0.2852	0.0016	69.2%	population	0.1974	0.0011
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.0229	0.0001	69.2%	population	0.0158	0.0001

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0010	0.0000	69.2%	population	0.0007	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0005	0.0000	18.0%	land area (1)	0.0001	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	17.0002	0.0927	18.0%	land area (1)	3.0600	0.0167
2270005020	Agriculture	Diesel Combines	MOVES	1.6722	0.0091	18.0%	land area (1)	0.3010	0.0016
2270005025	Agriculture	Diesel Balers	MOVES	0.0143	0.0001	18.0%	land area (1)	0.0026	0.0000
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0025	0.0000	18.0%	land area (1)	0.0004	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.1900	0.0010	18.0%	land area (1)	0.0342	0.0002
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0002	0.0000	18.0%	land area (1)	0.0000	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.1615	0.0009	18.0%	land area (1)	0.0291	0.0002
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	0.3909	0.0021	18.0%	land area (1)	0.0704	0.0004
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	0.2255	0.0012	18.0%	land area (1)	0.0406	0.0002
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	1.1635	0.0032	69.2%	population	0.8051	0.0022
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	0.2618	0.0007	69.2%	population	0.1812	0.0005
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	0.4759	0.0013	69.2%	population	0.3293	0.0009
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	0.8325	0.0023	69.2%	population	0.5761	0.0016
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.0388	0.0001	69.2%	population	0.0269	0.0001
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.0211	0.0001	69.2%	population	0.0146	0.0000
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.0490	0.0001	21.0%	land area	0.0103	0.0000
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0003	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.1774	0.0005	0.0%	airport location (2)	0.0000	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	1.5639	0.0044	1.5%	airport location (2)	0.0234	0.0001
2275050012	Aircraft	General Aviation, Turbine	USEPA	2.7573	0.0077	0.8%	airport location (2)	0.0228	0.0001
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0463	0.0001	0.0%	airport location (2)	0.0000	0.0000
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.9839	0.0028	0.0%	airport location (2)	0.0000	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	1.2006	0.0053	100.0%	Lk. Mich. Shoreline	1.2006	0.0053
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	59.7264	0.4361	81.0%	water area (3)	48.3784	0.3532
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	16.0769	0.1212	81.0%	water area (3)	13.0223	0.0981
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	21.3549	0.1412	81.0%	water area (3)	17.2974	0.1143
2282020005	Pleasure Craft	Diesel Inboards	MOVES	1.0187	0.0077	81.0%	water area (3)	0.8252	0.0063
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0036	0.0000	81.0%	water area (3)	0.0029	0.0000
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	0.6504	0.0018	50.0%	rail routes (4)	0.3252	0.0009
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.7658	0.0021	50.0%	rail routes (4)	0.3829	0.0011
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.0288	0.0001	50.0%	rail routes (4)	0.0144	0.0000
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0073	0.0000	50.0%	rail routes (4)	0.0036	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2011 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2011 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0001	0.0000	50.0%	rail routes (4)	0.0000	0.0000
ALL	ALL	ALL		735.6443	3.0291			337.3056	1.5396

- (1) Cities of Plymouth, Sheboygan and Sheboygan Falls excluded
- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (145 sq. km. for county and 117 sq. km., 81%, for proposed nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Two major rail routes traverse the length of Sheboygan County, one in the proposed sub-county nonattainment area and the other not in that area.

Table D-7

Kenosha Sub-County Nonattainment Area (I-94 and to the East) 2015 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	25.3579	0.1265	30.9%	land area	7.8356	0.0391
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	23.5736	0.1177	30.9%	land area	7.2842	0.0364
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.1853	0.0009	30.9%	land area	0.0573	0.0003
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	1.7011	0.0055	76.1%	population	1.2945	0.0042
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0609	0.0002	76.1%	population	0.0463	0.0002
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0727	0.0002	76.1%	population	0.0553	0.0002
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0006	0.0000	76.1%	population	0.0004	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	4.3538	0.0140	76.1%	population	3.3132	0.0107
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0148	0.0000	76.1%	population	0.0113	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0189	0.0001	76.1%	population	0.0144	0.0000
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0014	0.0000	76.1%	population	0.0011	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.3386	0.0018	76.1%	population	0.2577	0.0014
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.6573	0.0036	76.1%	population	0.5002	0.0027
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	6.1525	0.0176	76.1%	population	4.6821	0.0134
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	15.0882	0.0411	76.1%	population	11.4821	0.0313
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	6.8491	0.0374	76.1%	population	5.2122	0.0285
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	7.6942	0.0420	76.1%	population	5.8553	0.0320
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	4.1350	0.0226	76.1%	population	3.1467	0.0172
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	7.6370	0.0417	76.1%	population	5.8118	0.0317
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	7.4012	0.0014	76.1%	population	5.6323	0.0011
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	7.3384	0.0001	76.1%	population	5.5845	0.0001
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0025	0.0000	76.1%	population	0.0019	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.0609	0.0003	24.2%	land area (1)	0.0147	0.0001
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.4728	0.0013	76.1%	population	0.3598	0.0010
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	3.3434	0.0092	76.1%	population	2.5443	0.0070
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0013	0.0000	76.1%	population	0.0010	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0209	0.0001	76.1%	population	0.0159	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws	MOVES	0.1636	0.0004	30.9%	land area	0.0506	0.0001
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	1.0988	0.0055	30.9%	land area	0.3395	0.0017
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	12.4574	0.0623	30.9%	land area	3.8493	0.0192
2265001050	Recreational	4-Stroke Golf Carts	MOVES	2.6592	0.0130	30.9%	land area	0.8217	0.0040

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.2104	0.0010	30.9%	land area	0.0650	0.0003
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0867	0.0003	76.1%	population	0.0660	0.0002
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0008	0.0000	76.1%	population	0.0006	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.2217	0.0007	76.1%	population	0.1687	0.0005
2265002015	Construction	4-Stroke Rollers	MOVES	0.1497	0.0005	76.1%	population	0.1139	0.0004
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.3966	0.0013	76.1%	population	0.3018	0.0010
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.1541	0.0005	76.1%	population	0.1173	0.0004
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0077	0.0000	76.1%	population	0.0059	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.2774	0.0009	76.1%	population	0.2111	0.0007
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.1258	0.0004	76.1%	population	0.0957	0.0003
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.6038	0.0019	76.1%	population	0.4595	0.0014
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.4945	0.0018	76.1%	population	0.3763	0.0014
2265002045	Construction	4-Stroke Cranes	MOVES	0.0176	0.0001	76.1%	population	0.0134	0.0000
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0407	0.0001	76.1%	population	0.0310	0.0001
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0142	0.0000	76.1%	population	0.0108	0.0000
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0176	0.0001	76.1%	population	0.0134	0.0000
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.1933	0.0006	76.1%	population	0.1471	0.0005
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.1138	0.0004	76.1%	population	0.0866	0.0003
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0781	0.0003	76.1%	population	0.0594	0.0002
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0250	0.0001	76.1%	population	0.0190	0.0001
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.2986	0.0010	76.1%	population	0.2272	0.0008
2265003020	Industrial	4-Stroke Forklifts	MOVES	0.2256	0.0007	76.1%	population	0.1717	0.0006
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.1055	0.0003	76.1%	population	0.0803	0.0003
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.3971	0.0013	76.1%	population	0.3022	0.0010
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0187	0.0001	76.1%	population	0.0142	0.0000
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0054	0.0000	76.1%	population	0.0041	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0086	0.0000	76.1%	population	0.0065	0.0000
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	20.7659	0.1121	76.1%	population	15.8028	0.0853
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	4.1545	0.0225	76.1%	population	3.1615	0.0171
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	1.7860	0.0096	76.1%	population	1.3592	0.0073
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	2.8923	0.0156	76.1%	population	2.2011	0.0119
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1182	0.0006	76.1%	population	0.0900	0.0005
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.1112	0.0006	76.1%	population	0.0846	0.0005
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1648	0.0009	76.1%	population	0.1254	0.0007
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	2.6857	0.0145	76.1%	population	2.0439	0.0111
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	2.5225	0.0030	76.1%	population	1.9196	0.0023
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	2.0374	0.0002	76.1%	population	1.5504	0.0001
2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	2.2629	0.0123	76.1%	population	1.7221	0.0094
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.2623	0.0014	76.1%	population	0.1996	0.0011

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.3916	0.0021	76.1%	population	0.2980	0.0016
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.3480	0.0019	76.1%	population	0.2648	0.0014
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	24.9851	0.1353	76.1%	population	19.0136	0.1030
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	3.4210	0.0184	76.1%	population	2.6034	0.0140
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.3649	0.0020	76.1%	population	0.2777	0.0015
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	10.0414	0.0541	76.1%	population	7.6415	0.0412
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	1.3130	0.0071	76.1%	population	0.9992	0.0054
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.7009	0.0038	76.1%	population	0.5334	0.0029
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0178	0.0001	24.2%	land area (1)	0.0043	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0260	0.0001	24.2%	land area (1)	0.0063	0.0000
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0006	0.0000	24.2%	land area (1)	0.0001	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.0616	0.0003	24.2%	land area (1)	0.0149	0.0001
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0176	0.0001	24.2%	land area (1)	0.0043	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.2388	0.0013	24.2%	land area (1)	0.0578	0.0003
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	0.8030	0.0043	24.2%	land area (1)	0.1943	0.0010
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.0881	0.0005	24.2%	land area (1)	0.0213	0.0001
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.1205	0.0006	24.2%	land area (1)	0.0292	0.0002
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0245	0.0001	24.2%	land area (1)	0.0059	0.0000
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	12.9315	0.0396	76.1%	population	9.8409	0.0301
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	2.8144	0.0078	76.1%	population	2.1417	0.0060
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	1.1947	0.0033	76.1%	population	0.9092	0.0025
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	2.7466	0.0074	76.1%	population	2.0902	0.0057
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	5.4692	0.0156	76.1%	population	4.1621	0.0119
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.2000	0.0005	76.1%	population	0.1522	0.0004
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0346	0.0001	30.9%	land area	0.0107	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0003	0.0000	30.9%	land area	0.0001	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0038	0.0000	30.9%	land area	0.0012	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0031	0.0000	76.1%	population	0.0023	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0023	0.0000	76.1%	population	0.0018	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0019	0.0000	76.1%	population	0.0014	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0005	0.0000	76.1%	population	0.0004	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0099	0.0000	76.1%	population	0.0075	0.0000
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0107	0.0000	76.1%	population	0.0082	0.0000
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0028	0.0000	76.1%	population	0.0022	0.0000
2267002045	Construction	LPG Cranes	MOVES	0.0076	0.0000	76.1%	population	0.0058	0.0000
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0011	0.0000	76.1%	population	0.0009	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0075	0.0000	76.1%	population	0.0057	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0089	0.0000	76.1%	population	0.0068	0.0000
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0007	0.0000	76.1%	population	0.0005	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0244	0.0001	76.1%	population	0.0186	0.0001
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0127	0.0000	76.1%	population	0.0097	0.0000
2267003010	Industrial	LPG Aerial Lifts	MOVES	0.2542	0.0008	76.1%	population	0.1935	0.0006
2267003020	Industrial	LPG Forklifts	MOVES	6.1162	0.0200	76.1%	population	4.6545	0.0152
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.0327	0.0001	76.1%	population	0.0249	0.0001
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.0117	0.0000	76.1%	population	0.0089	0.0000
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0122	0.0000	76.1%	population	0.0093	0.0000
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.0132	0.0000	76.1%	population	0.0101	0.0000
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.0155	0.0001	76.1%	population	0.0118	0.0001
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0005	0.0000	24.2%	land area (1)	0.0001	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0000	0.0000	24.2%	land area (1)	0.0000	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	0.4060	0.0011	76.1%	population	0.3090	0.0008
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.0568	0.0002	76.1%	population	0.0432	0.0001
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.0361	0.0001	76.1%	population	0.0275	0.0001
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.0662	0.0002	76.1%	population	0.0504	0.0001
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0018	0.0000	76.1%	population	0.0014	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0005	0.0000	76.1%	population	0.0004	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	0.0261	0.0001	76.1%	population	0.0198	0.0001
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0000	0.0000	76.1%	population	0.0000	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0001	0.0000	76.1%	population	0.0000	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0000	0.0000	24.2%	land area (1)	0.0000	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0000	0.0000	24.2%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.0074	0.0000	76.1%	population	0.0056	0.0000
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0003	0.0000	76.1%	population	0.0002	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0002	0.0000	76.1%	population	0.0001	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.0026	0.0000	76.1%	population	0.0020	0.0000
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.0474	0.0002	30.9%	land area	0.0146	0.0001
2270002003	Construction	Diesel Pavers	MOVES	0.2096	0.0007	76.1%	population	0.1595	0.0005
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0011	0.0000	76.1%	population	0.0008	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.0161	0.0001	76.1%	population	0.0122	0.0000
2270002015	Construction	Diesel Rollers	MOVES	0.5773	0.0019	76.1%	population	0.4393	0.0014

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2270002018	Construction	Diesel Scrapers	MOVES	0.4973	0.0016	76.1%	population	0.3785	0.0012
2270002021	Construction	Diesel Paving Equipment	MOVES	0.0407	0.0001	76.1%	population	0.0310	0.0001
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.0278	0.0001	76.1%	population	0.0211	0.0001
2270002027	Construction	Diesel Signal Boards	MOVES	0.1200	0.0004	76.1%	population	0.0913	0.0003
2270002030	Construction	Diesel Trenchers	MOVES	0.3272	0.0011	76.1%	population	0.2490	0.0008
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	0.3823	0.0012	76.1%	population	0.2909	0.0009
2270002036	Construction	Diesel Excavators	MOVES	1.8532	0.0060	76.1%	population	1.4103	0.0045
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.0240	0.0001	76.1%	population	0.0183	0.0001
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.0209	0.0001	76.1%	population	0.0159	0.0001
2270002045	Construction	Diesel Cranes	MOVES	0.4999	0.0016	76.1%	population	0.3804	0.0012
2270002048	Construction	Diesel Graders	MOVES	0.4710	0.0015	76.1%	population	0.3584	0.0012
2270002051	Construction	Diesel Off-highway Trucks	MOVES	1.8474	0.0059	76.1%	population	1.4059	0.0045
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	0.0951	0.0003	76.1%	population	0.0724	0.0002
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	0.8450	0.0027	76.1%	population	0.6431	0.0021
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	2.4552	0.0079	76.1%	population	1.8684	0.0060
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	4.7323	0.0152	76.1%	population	3.6013	0.0116
2270002069	Construction	Diesel Crawler Tractors	MOVES	2.0217	0.0065	76.1%	population	1.5385	0.0049
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	4.2530	0.0137	76.1%	population	3.2365	0.0104
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	0.2582	0.0008	76.1%	population	0.1965	0.0006
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0152	0.0000	76.1%	population	0.0116	0.0000
2270002081	Construction	Diesel Other Construction Equipment	MOVES	0.2587	0.0008	76.1%	population	0.1969	0.0006
2270003010	Industrial	Diesel Aerial Lifts	MOVES	0.4012	0.0013	76.1%	population	0.3053	0.0010
2270003020	Industrial	Diesel Forklifts	MOVES	0.8296	0.0027	76.1%	population	0.6313	0.0021
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	0.4822	0.0016	76.1%	population	0.3670	0.0012
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	0.6010	0.0020	76.1%	population	0.4574	0.0015
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.0724	0.0002	76.1%	population	0.0551	0.0002
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	1.1810	0.0039	76.1%	population	0.8988	0.0029
2270003070	Industrial	Diesel Terminal Tractors	MOVES	0.5806	0.0019	76.1%	population	0.4418	0.0014
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0001	0.0000	76.1%	population	0.0001	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0079	0.0000	76.1%	population	0.0060	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	0.2713	0.0015	76.1%	population	0.2065	0.0011
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.0626	0.0003	76.1%	population	0.0476	0.0003
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	0.3304	0.0018	76.1%	population	0.2514	0.0014
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.0247	0.0001	76.1%	population	0.0188	0.0001
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0012	0.0000	76.1%	population	0.0009	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0002	0.0000	24.2%	land area (1)	0.0001	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	6.2349	0.0340	24.2%	land area (1)	1.5088	0.0082
2270005020	Agriculture	Diesel Combines	MOVES	0.6745	0.0037	24.2%	land area (1)	0.1632	0.0009
2270005025	Agriculture	Diesel Balers	MOVES	0.0054	0.0000	24.2%	land area (1)	0.0013	0.0000

SCC	Segment Description	SCC Description	Emis. from	Kenosha County 2015 VOC Emissions		% in NAA	Allocate by	Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0009	0.0000	24.2%	land area (1)	0.0002	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.0702	0.0004	24.2%	land area (1)	0.0170	0.0001
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0001	0.0000	24.2%	land area (1)	0.0000	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.0657	0.0004	24.2%	land area (1)	0.0159	0.0001
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	0.1451	0.0008	24.2%	land area (1)	0.0351	0.0002
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	0.0808	0.0004	24.2%	land area (1)	0.0196	0.0001
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	1.0880	0.0030	76.1%	population	0.8280	0.0022
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	0.2512	0.0007	76.1%	population	0.1912	0.0005
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	0.4194	0.0011	76.1%	population	0.3192	0.0009
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	0.7216	0.0020	76.1%	population	0.5491	0.0015
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.0384	0.0001	76.1%	population	0.0292	0.0001
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.0189	0.0001	76.1%	population	0.0144	0.0000
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.0150	0.0000	30.9%	land area	0.0046	0.0000
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	30.9%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.0645	0.0002	100.0%	airport location (2)	0.0645	0.0002
2275050011	Aircraft	General Aviation, Piston	USEPA	2.0559	0.0058	59.6%	airport location (2)	1.2227	0.0034
2275050012	Aircraft	General Aviation, Turbine	USEPA	3.5812	0.0100	61.2%	airport location (2)	2.1983	0.0062
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0250	0.0001	100.0%	airport location (2)	0.0245	0.0001
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.5304	0.0015	100.0%	airport location (2)	0.5200	0.0015
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	1.6643	0.0063	100.0%	Lk. Mich. Shoreline	1.6643	0.0063
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	37.5032	0.2713	69.1%	water area (3)	25.9147	0.1875
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	8.1044	0.0609	69.1%	water area (3)	5.6002	0.0421
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	10.4389	0.0689	69.1%	water area (3)	7.2133	0.0476
2282020005	Pleasure Craft	Diesel Inboards	MOVES	0.6289	0.0048	69.1%	water area (3)	0.4346	0.0033
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0027	0.0000	69.1%	water area (3)	0.0019	0.0000
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	9.6166	0.0266	60.0%	rail links (4)	5.7683	0.0159
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.0000	0.0000	-	rail links (4)	0.0000	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0053	0.0000	60.0%	rail links (4)	0.0032	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0151	0.0000	60.0%	rail links (4)	0.0091	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.1159	0.0003	60.0%	rail links (4)	0.0695	0.0002
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0234	0.0001	60.0%	rail links (4)	0.0140	0.0000
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0002	0.0000	60.0%	rail links (4)	0.0001	0.0000
ALL	ALL	ALL		369.4304	1.6953			240.9796	1.0840

(1) City of Kenosha excluded

- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (81 sq. km. for county and 56 sq. km., 69.1%, for nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/

Table D-8

Sheboygan County and Proposed Sub-County Nonattainment Area 2015 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2260001010	Recreational	2-Stroke Motorcycles: Off-Road	MOVES	75.9899	0.3792	21.0%	land area	15.9579	0.0796
2260001020	Recreational	2-Stroke Snowmobiles	MOVES	100.2826	0.0177	21.0%	land area	21.0593	0.0037
2260001030	Recreational	2-Stroke All Terrain Vehicles	MOVES	70.5862	0.3527	21.0%	land area	14.8231	0.0741
2260001060	Recreational	2-Stroke Specialty Vehicle Carts	MOVES	0.5460	0.0028	21.0%	land area	0.1147	0.0006
2260002006	Construction	2-Stroke Tampers/Rammers	MOVES	1.4066	0.0045	69.4%	population	0.9762	0.0032
2260002009	Construction	2-Stroke Plate Compactors	MOVES	0.0503	0.0002	69.4%	population	0.0349	0.0001
2260002021	Construction	2-Stroke Paving Equipment	MOVES	0.0601	0.0002	69.4%	population	0.0417	0.0001
2260002027	Construction	2-Stroke Signal Boards	MOVES	0.0005	0.0000	69.4%	population	0.0003	0.0000
2260002039	Construction	2-Stroke Concrete/Industrial Saws	MOVES	3.6015	0.0116	69.4%	population	2.4994	0.0080
2260002054	Construction	2-Stroke Crushing/Proc. Equipment	MOVES	0.0123	0.0000	69.4%	population	0.0085	0.0000
2260003030	Industrial	2-Stroke Sweepers/Scrubbers	MOVES	0.0380	0.0001	69.4%	population	0.0264	0.0001
2260003040	Industrial	2-Stroke Other General Industrial Equipment	MOVES	0.0029	0.0000	69.4%	population	0.0020	0.0000
2260004015	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	0.2553	0.0014	69.4%	population	0.1772	0.0010
2260004016	Lawn/Garden	2-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	0.5008	0.0027	69.4%	population	0.3476	0.0019
2260004020	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Residential)	MOVES	4.6535	0.0133	69.4%	population	3.2295	0.0092
2260004021	Lawn/Garden	2-Stroke Chain Saws < 6 HP (Commercial)	MOVES	11.4999	0.0313	69.4%	population	7.9809	0.0217
2260004025	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	5.1663	0.0283	69.4%	population	3.5854	0.0196
2260004026	Lawn/Garden	2-Stroke Trimmers/Edgers/Brush Cutters	MOVES	5.8627	0.0320	69.4%	population	4.0687	0.0222
2260004030	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Residential)	MOVES	3.0942	0.0171	69.4%	population	2.1474	0.0118
2260004031	Lawn/Garden	2-Stroke Leafblowers/Vacuums (Commercial)	MOVES	5.8189	0.0318	69.4%	population	4.0383	0.0220
2260004035	Lawn/Garden	2-Stroke Snowblowers (Residential)	MOVES	5.6032	0.0010	69.4%	population	3.8886	0.0007
2260004036	Lawn/Garden	2-Stroke Snowblowers (Commercial)	MOVES	5.5932	0.0001	69.4%	population	3.8817	0.0000
2260004071	Lawn/Garden	2-Stroke Commercial Turf Equipment (Comm.)	MOVES	0.0019	0.0000	69.4%	population	0.0013	0.0000
2260005035	Agriculture	2-Stroke Sprayers	MOVES	0.1290	0.0007	18.0%	land area (1)	0.0232	0.0001
2260006005	Commercial	2-Stroke Light Commercial Generator Set	MOVES	0.4204	0.0012	69.4%	population	0.2917	0.0008
2260006010	Commercial	2-Stroke Light Commercial Pumps	MOVES	2.9748	0.0082	69.4%	population	2.0645	0.0057
2260006015	Commercial	2-Stroke Light Commercial Air Compressors	MOVES	0.0012	0.0000	69.4%	population	0.0008	0.0000
2260006035	Commercial	2-Stroke Hydro Power Units	MOVES	0.0186	0.0001	69.4%	population	0.0129	0.0000
2260007005	Logging	2-Stroke Logging Equipment Chain Saws >	MOVES	0.3678	0.0010	21.0%	land area	0.0772	0.0002
2265001010	Recreational	4-Stroke Motorcycles: Off-Road	MOVES	3.2644	0.0163	21.0%	land area	0.6855	0.0034
2265001030	Recreational	4-Stroke All Terrain Vehicles	MOVES	36.9902	0.1855	21.0%	land area	7.7679	0.0390

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				tpy	tpsd			tpy	tpsd
2265001050	Recreational	4-Stroke Golf Carts	MOVES	5.8548	0.0285	21.0%	land area	1.2295	0.0060
2265001060	Recreational	4-Stroke Specialty Vehicle Carts	MOVES	0.6227	0.0031	21.0%	land area	0.1308	0.0007
2265002003	Construction	4-Stroke Asphalt Pavers	MOVES	0.0717	0.0002	69.4%	population	0.0498	0.0002
2265002006	Construction	4-Stroke Tampers/Rammers	MOVES	0.0007	0.0000	69.4%	population	0.0005	0.0000
2265002009	Construction	4-Stroke Plate Compactors	MOVES	0.1834	0.0006	69.4%	population	0.1273	0.0004
2265002015	Construction	4-Stroke Rollers	MOVES	0.1239	0.0004	69.4%	population	0.0860	0.0003
2265002021	Construction	4-Stroke Paving Equipment	MOVES	0.3262	0.0011	69.4%	population	0.2264	0.0008
2265002024	Construction	4-Stroke Surfacing Equipment	MOVES	0.1275	0.0004	69.4%	population	0.0885	0.0003
2265002027	Construction	4-Stroke Signal Boards	MOVES	0.0064	0.0000	69.4%	population	0.0044	0.0000
2265002030	Construction	4-Stroke Trenchers	MOVES	0.2294	0.0007	69.4%	population	0.1592	0.0005
2265002033	Construction	4-Stroke Bore/Drill Rigs	MOVES	0.1033	0.0003	69.4%	population	0.0717	0.0002
2265002039	Construction	4-Stroke Concrete/Industrial Saws	MOVES	0.5001	0.0016	69.4%	population	0.3471	0.0011
2265002042	Construction	4-Stroke Cement & Mortar Mixers	MOVES	0.4027	0.0015	69.4%	population	0.2795	0.0010
2265002045	Construction	4-Stroke Cranes	MOVES	0.0145	0.0000	69.4%	population	0.0100	0.0000
2265002054	Construction	4-Stroke Crushing/Proc. Equipment	MOVES	0.0336	0.0001	69.4%	population	0.0233	0.0001
2265002057	Construction	4-Stroke Rough Terrain Forklifts	MOVES	0.0117	0.0000	69.4%	population	0.0081	0.0000
2265002060	Construction	4-Stroke Rubber Tire Loaders	MOVES	0.0145	0.0000	69.4%	population	0.0100	0.0000
2265002066	Construction	4-Stroke Tractors/Loaders/Backhoes	MOVES	0.1600	0.0005	69.4%	population	0.1111	0.0004
2265002072	Construction	4-Stroke Skid Steer Loaders	MOVES	0.0937	0.0003	69.4%	population	0.0650	0.0002
2265002078	Construction	4-Stroke Dumpers/Tenders	MOVES	0.0636	0.0002	69.4%	population	0.0441	0.0002
2265002081	Construction	4-Stroke Other Construction Equipment	MOVES	0.0206	0.0001	69.4%	population	0.0143	0.0000
2265003010	Industrial	4-Stroke Aerial Lifts	MOVES	0.5984	0.0020	69.4%	population	0.4153	0.0014
2265003020	Industrial	4-Stroke Forklifts	MOVES	0.4537	0.0015	69.4%	population	0.3149	0.0010
2265003030	Industrial	4-Stroke Sweepers/Scrubbers	MOVES	0.2121	0.0007	69.4%	population	0.1472	0.0005
2265003040	Industrial	4-Stroke Other General Industrial Equipment	MOVES	0.7991	0.0026	69.4%	population	0.5546	0.0018
2265003050	Industrial	4-Stroke Other Material Handling Equipment	MOVES	0.0374	0.0001	69.4%	population	0.0259	0.0001
2265003060	Industrial	4-Stroke Industrial AC/Refrigeration	MOVES	0.0040	0.0000	69.4%	population	0.0028	0.0000
2265003070	Industrial	4-Stroke Terminal Tractors	MOVES	0.0172	0.0001	69.4%	population	0.0119	0.0000
2265004010	Lawn/Garden	4-Stroke Lawn mowers (Residential)	MOVES	15.6039	0.0845	69.4%	population	10.8291	0.0587
2265004011	Lawn/Garden	4-Stroke Lawn mowers (Commercial)	MOVES	3.1667	0.0171	69.4%	population	2.1977	0.0119
2265004015	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Residential)	MOVES	1.3448	0.0073	69.4%	population	0.9333	0.0051
2265004016	Lawn/Garden	4-Stroke Rotary Tillers < 6 HP (Commercial)	MOVES	2.2065	0.0119	69.4%	population	1.5313	0.0083
2265004025	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0892	0.0005	69.4%	population	0.0619	0.0003
2265004026	Lawn/Garden	4-Stroke Trimmers/Edgers/Brush Cutters	MOVES	0.0848	0.0005	69.4%	population	0.0588	0.0003
2265004030	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Residential)	MOVES	0.1226	0.0007	69.4%	population	0.0851	0.0005
2265004031	Lawn/Garden	4-Stroke Leafblowers/Vacuums (Commercial)	MOVES	2.0472	0.0111	69.4%	population	1.4207	0.0077
2265004035	Lawn/Garden	4-Stroke Snowblowers (Residential)	MOVES	1.8861	0.0021	69.4%	population	1.3090	0.0015
2265004036	Lawn/Garden	4-Stroke Snowblowers (Commercial)	MOVES	1.5564	0.0001	69.4%	population	1.0802	0.0001

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2265004040	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Res.)	MOVES	1.6737	0.0092	69.4%	population	1.1615	0.0064
2265004041	Lawn/Garden	4-Stroke Rear Engine Riding Mowers (Comm.)	MOVES	0.1997	0.0011	69.4%	population	0.1386	0.0007
2265004046	Lawn/Garden	4-Stroke Front Mowers (Commercial)	MOVES	0.2957	0.0016	69.4%	population	0.2052	0.0011
2265004051	Lawn/Garden	4-Stroke Shredders < 6 HP (Commercial)	MOVES	0.2650	0.0014	69.4%	population	0.1839	0.0010
2265004055	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Residential)	MOVES	18.6447	0.1017	69.4%	population	12.9394	0.0706
2265004056	Lawn/Garden	4-Stroke Lawn & Garden Tractors (Commercial)	MOVES	2.6067	0.0140	69.4%	population	1.8090	0.0097
2265004066	Lawn/Garden	4-Stroke Chippers/Stump Grinders (Comm.)	MOVES	0.2773	0.0015	69.4%	population	0.1925	0.0010
2265004071	Lawn/Garden	4-Stroke Commercial Turf Equipment (Comm.)	MOVES	7.6440	0.0412	69.4%	population	5.3049	0.0286
2265004075	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.9762	0.0053	69.4%	population	0.6775	0.0037
2265004076	Lawn/Garden	4-Stroke Other Lawn & Garden Equipment	MOVES	0.5228	0.0029	69.4%	population	0.3628	0.0020
2265005010	Agriculture	4-Stroke 2-Wheel Tractors	MOVES	0.0379	0.0002	18.0%	land area (1)	0.0068	0.0000
2265005015	Agriculture	4-Stroke Agricultural Tractors	MOVES	0.0553	0.0003	18.0%	land area (1)	0.0100	0.0001
2265005020	Agriculture	4-Stroke Combines	MOVES	0.0012	0.0000	18.0%	land area (1)	0.0002	0.0000
2265005025	Agriculture	4-Stroke Balers	MOVES	0.1278	0.0007	18.0%	land area (1)	0.0230	0.0001
2265005030	Agriculture	4-Stroke Agricultural Mowers	MOVES	0.0372	0.0002	18.0%	land area (1)	0.0067	0.0000
2265005035	Agriculture	4-Stroke Sprayers	MOVES	0.5004	0.0027	18.0%	land area (1)	0.0901	0.0005
2265005040	Agriculture	4-Stroke Tillers > 5 HP	MOVES	1.6983	0.0091	18.0%	land area (1)	0.3057	0.0016
2265005045	Agriculture	4-Stroke Swathers	MOVES	0.1840	0.0010	18.0%	land area (1)	0.0331	0.0002
2265005055	Agriculture	4-Stroke Other Agricultural Equipment	MOVES	0.2542	0.0014	18.0%	land area (1)	0.0457	0.0002
2265005060	Agriculture	4-Stroke Irrigation Sets	MOVES	0.0520	0.0003	18.0%	land area (1)	0.0094	0.0001
2265006005	Commercial	4-Stroke Light Commercial Generator Set	MOVES	11.3940	0.0348	69.4%	population	7.9075	0.0241
2265006010	Commercial	4-Stroke Light Commercial Pumps	MOVES	2.4998	0.0070	69.4%	population	1.7349	0.0048
2265006015	Commercial	4-Stroke Light Commercial Air Compressors	MOVES	1.0629	0.0029	69.4%	population	0.7376	0.0020
2265006025	Commercial	4-Stroke Light Commercial Welders	MOVES	2.4459	0.0066	69.4%	population	1.6975	0.0046
2265006030	Commercial	4-Stroke Light Commercial Pressure Wash	MOVES	4.8484	0.0138	69.4%	population	3.3648	0.0096
2265006035	Commercial	4-Stroke Hydro Power Units	MOVES	0.1781	0.0005	69.4%	population	0.1236	0.0003
2265007010	Logging	4-Stroke Logging Equipment Shredders >	MOVES	0.0772	0.0002	21.0%	land area	0.0162	0.0000
2265007015	Logging	4-Stroke Logging Equipment Skidders	MOVES	0.0007	0.0000	21.0%	land area	0.0001	0.0000
2265008005	Airport Support	4-Stroke Airport Support Equipment	USEPA	0.0001	0.0000	-	airport location (2)	0.0000	0.0000
2265010010	Oil Field	4-Stroke Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2267001060	Recreational	LPG Specialty Vehicle Carts	MOVES	0.0115	0.0001	21.0%	land area	0.0024	0.0000
2267002003	Construction	LPG Asphalt Pavers	MOVES	0.0025	0.0000	69.4%	population	0.0018	0.0000
2267002015	Construction	LPG Rollers	MOVES	0.0019	0.0000	69.4%	population	0.0013	0.0000
2267002021	Construction	LPG Paving Equipment	MOVES	0.0016	0.0000	69.4%	population	0.0011	0.0000
2267002024	Construction	LPG Surfacing Equipment	MOVES	0.0004	0.0000	69.4%	population	0.0003	0.0000
2267002030	Construction	LPG Trenchers	MOVES	0.0082	0.0000	69.4%	population	0.0057	0.0000
2267002033	Construction	LPG Bore/Drill Rigs	MOVES	0.0089	0.0000	69.4%	population	0.0062	0.0000
2267002039	Construction	LPG Concrete/Industrial Saws	MOVES	0.0023	0.0000	69.4%	population	0.0016	0.0000

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				tpy	tpsd			tpy	tpsd
2267002045	Construction	LPG Cranes	MOVES	0.0063	0.0000	69.4%	population	0.0043	0.0000
2267002054	Construction	LPG Crushing/Proc. Equipment	MOVES	0.0010	0.0000	69.4%	population	0.0007	0.0000
2267002057	Construction	LPG Rough Terrain Forklifts	MOVES	0.0062	0.0000	69.4%	population	0.0043	0.0000
2267002060	Construction	LPG Rubber Tire Loaders	MOVES	0.0073	0.0000	69.4%	population	0.0051	0.0000
2267002066	Construction	LPG Tractors/Loaders/Backhoes	MOVES	0.0006	0.0000	69.4%	population	0.0004	0.0000
2267002072	Construction	LPG Skid Steer Loaders	MOVES	0.0202	0.0001	69.4%	population	0.0140	0.0000
2267002081	Construction	LPG Other Construction Equipment	MOVES	0.0105	0.0000	69.4%	population	0.0073	0.0000
2267003010	Industrial	LPG Aerial Lifts	MOVES	0.5116	0.0017	69.4%	population	0.3551	0.0012
2267003020	Industrial	LPG Forklifts	MOVES	12.3095	0.0402	69.4%	population	8.5428	0.0279
2267003030	Industrial	LPG Sweepers/Scrubbers	MOVES	0.0659	0.0002	69.4%	population	0.0457	0.0001
2267003040	Industrial	LPG Other General Industrial Equipment	MOVES	0.0235	0.0001	69.4%	population	0.0163	0.0001
2267003050	Industrial	LPG Other Material Handling Equipment	MOVES	0.0246	0.0001	69.4%	population	0.0170	0.0001
2267003070	Industrial	LPG Terminal Tractors	MOVES	0.0267	0.0001	69.4%	population	0.0185	0.0001
2267004066	Lawn/Garden	LPG Chippers/Stump Grinders (Commercial)	MOVES	0.0118	0.0001	69.4%	population	0.0082	0.0000
2267005055	Agriculture	LPG Other Agricultural Equipment	MOVES	0.0010	0.0000	18.0%	land area (1)	0.0002	0.0000
2267005060	Agriculture	LPG Irrigation Sets	MOVES	0.0001	0.0000	18.0%	land area (1)	0.0000	0.0000
2267006005	Commercial	LPG Light Commercial Generator Sets	MOVES	0.3616	0.0010	69.4%	population	0.2509	0.0007
2267006010	Commercial	LPG Light Commercial Pumps	MOVES	0.0506	0.0001	69.4%	population	0.0351	0.0001
2267006015	Commercial	LPG Light Commercial Air Compressors	MOVES	0.0322	0.0001	69.4%	population	0.0223	0.0001
2267006025	Commercial	LPG Light Commercial Welders	MOVES	0.0589	0.0002	69.4%	population	0.0409	0.0001
2267006030	Commercial	LPG Light Commercial Pressure Washers	MOVES	0.0016	0.0000	69.4%	population	0.0011	0.0000
2267006035	Commercial	LPG Hydro Power Units	MOVES	0.0004	0.0000	69.4%	population	0.0003	0.0000
2267008005	Airport Support	LPG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268002081	Construction	CNG Other Construction Equipment	MOVES	0.0000	0.0000	69.4%	population	0.0000	0.0000
2268003020	Industrial	CNG Forklifts	MOVES	0.0525	0.0002	69.4%	population	0.0364	0.0001
2268003030	Industrial	CNG Sweepers/Scrubbers	MOVES	0.0001	0.0000	69.4%	population	0.0000	0.0000
2268003040	Industrial	CNG Other General Industrial Equipment	MOVES	0.0000	0.0000	69.4%	population	0.0000	0.0000
2268003060	Industrial	CNG AC/Refrigeration	MOVES	0.0000	0.0000	69.4%	population	0.0000	0.0000
2268003070	Industrial	CNG Terminal Tractors	MOVES	0.0001	0.0000	69.4%	population	0.0001	0.0000
2268005055	Agriculture	CNG Other Agricultural Equipment	MOVES	0.0000	0.0000	18.0%	land area (1)	0.0000	0.0000
2268005060	Agriculture	CNG Irrigation Sets	MOVES	0.0000	0.0000	18.0%	land area (1)	0.0000	0.0000
2268006005	Commercial	CNG Light Commercial Generator Sets	MOVES	0.0066	0.0000	69.4%	population	0.0045	0.0000
2268006010	Commercial	CNG Light Commercial Pumps	MOVES	0.0002	0.0000	69.4%	population	0.0002	0.0000
2268006015	Commercial	CNG Light Commercial Air Compressors	MOVES	0.0001	0.0000	69.4%	population	0.0001	0.0000
2268006020	Commercial	CNG Light Commercial Gas Compressors	MOVES	0.0023	0.0000	69.4%	population	0.0016	0.0000
2268008005	Airport Support	CNG Airport Support Equipment	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2268010010	Oil Field	CNG Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2270001060	Recreational	Diesel Specialty Vehicle Carts	MOVES	0.1422	0.0007	21.0%	land area	0.0299	0.0001

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2270002003	Construction	Diesel Pavers	MOVES	0.1734	0.0006	69.4%	population	0.1203	0.0004
2270002006	Construction	Diesel Tampers/Rammers (unused)	MOVES	0.0009	0.0000	69.4%	population	0.0006	0.0000
2270002009	Construction	Diesel Plate Compactors	MOVES	0.0133	0.0000	69.4%	population	0.0092	0.0000
2270002015	Construction	Diesel Rollers	MOVES	0.4776	0.0015	69.4%	population	0.3315	0.0011
2270002018	Construction	Diesel Scrapers	MOVES	0.4115	0.0013	69.4%	population	0.2856	0.0009
2270002021	Construction	Diesel Paving Equipment	MOVES	0.0337	0.0001	69.4%	population	0.0234	0.0001
2270002024	Construction	Diesel Surfacing Equipment	MOVES	0.0230	0.0001	69.4%	population	0.0159	0.0001
2270002027	Construction	Diesel Signal Boards	MOVES	0.0993	0.0003	69.4%	population	0.0689	0.0002
2270002030	Construction	Diesel Trenchers	MOVES	0.2707	0.0009	69.4%	population	0.1879	0.0006
2270002033	Construction	Diesel Bore/Drill Rigs	MOVES	0.3163	0.0010	69.4%	population	0.2195	0.0007
2270002036	Construction	Diesel Excavators	MOVES	1.5334	0.0049	69.4%	population	1.0642	0.0034
2270002039	Construction	Diesel Concrete/Industrial Saws	MOVES	0.0199	0.0001	69.4%	population	0.0138	0.0000
2270002042	Construction	Diesel Cement & Mortar Mixers	MOVES	0.0173	0.0001	69.4%	population	0.0120	0.0000
2270002045	Construction	Diesel Cranes	MOVES	0.4136	0.0013	69.4%	population	0.2871	0.0009
2270002048	Construction	Diesel Graders	MOVES	0.3897	0.0013	69.4%	population	0.2704	0.0009
2270002051	Construction	Diesel Off-highway Trucks	MOVES	1.5286	0.0049	69.4%	population	1.0609	0.0034
2270002054	Construction	Diesel Crushing/Proc. Equipment	MOVES	0.0787	0.0003	69.4%	population	0.0546	0.0002
2270002057	Construction	Diesel Rough Terrain Forklifts	MOVES	0.6992	0.0022	69.4%	population	0.4852	0.0016
2270002060	Construction	Diesel Rubber Tire Loaders	MOVES	2.0315	0.0065	69.4%	population	1.4099	0.0045
2270002066	Construction	Diesel Tractors/Loaders/Backhoes	MOVES	3.9157	0.0126	69.4%	population	2.7175	0.0087
2270002069	Construction	Diesel Crawler Tractors	MOVES	1.6728	0.0054	69.4%	population	1.1609	0.0037
2270002072	Construction	Diesel Skid Steer Loaders	MOVES	3.5191	0.0113	69.4%	population	2.4422	0.0078
2270002075	Construction	Diesel Off-Highway Tractors	MOVES	0.2137	0.0007	69.4%	population	0.1483	0.0005
2270002078	Construction	Diesel Dumpers/Tenders	MOVES	0.0126	0.0000	69.4%	population	0.0088	0.0000
2270002081	Construction	Diesel Other Construction Equipment	MOVES	0.2140	0.0007	69.4%	population	0.1486	0.0005
2270003010	Industrial	Diesel Aerial Lifts	MOVES	0.8074	0.0026	69.4%	population	0.5603	0.0018
2270003020	Industrial	Diesel Forklifts	MOVES	1.6696	0.0054	69.4%	population	1.1587	0.0038
2270003030	Industrial	Diesel Sweepers/Scrubbers	MOVES	0.9706	0.0032	69.4%	population	0.6736	0.0022
2270003040	Industrial	Diesel Other General Industrial Equipment	MOVES	1.2096	0.0039	69.4%	population	0.8395	0.0027
2270003050	Industrial	Diesel Other Material Handling Equipment	MOVES	0.1458	0.0005	69.4%	population	0.1012	0.0003
2270003060	Industrial	Diesel AC/Refrigeration	MOVES	0.8691	0.0028	69.4%	population	0.6031	0.0020
2270003070	Industrial	Diesel Terminal Tractors	MOVES	1.1685	0.0038	69.4%	population	0.8109	0.0026
2270004031	Lawn/Garden	Diesel Leafblowers/Vacuums (Commercial)	MOVES	0.0001	0.0000	69.4%	population	0.0000	0.0000
2270004036	Lawn/Garden	Diesel Snowblowers (Commercial)	MOVES	0.0060	0.0000	69.4%	population	0.0042	0.0000
2270004046	Lawn/Garden	Diesel Front Mowers (Commercial)	MOVES	0.2068	0.0011	69.4%	population	0.1435	0.0008
2270004056	Lawn/Garden	Diesel Lawn & Garden Tractors (Commercial)	MOVES	0.0477	0.0003	69.4%	population	0.0331	0.0002
2270004066	Lawn/Garden	Diesel Chippers/Stump Grinders (Commercial)	MOVES	0.2519	0.0014	69.4%	population	0.1748	0.0010
2270004071	Lawn/Garden	Diesel Commercial Turf Equipment (Comm.)	MOVES	0.0189	0.0001	69.4%	population	0.0131	0.0001

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2270004076	Lawn/Garden	Diesel Other Lawn & Garden Equipment (Comm)	MOVES	0.0009	0.0000	69.4%	population	0.0006	0.0000
2270005010	Agriculture	Diesel 2-Wheel Tractors	MOVES	0.0005	0.0000	18.0%	land area (1)	0.0001	0.0000
2270005015	Agriculture	Diesel Agricultural Tractors	MOVES	13.2769	0.0724	18.0%	land area (1)	2.3898	0.0130
2270005020	Agriculture	Diesel Combines	MOVES	1.4363	0.0078	18.0%	land area (1)	0.2585	0.0014
2270005025	Agriculture	Diesel Balers	MOVES	0.0115	0.0001	18.0%	land area (1)	0.0021	0.0000
2270005030	Agriculture	Diesel Agricultural Mowers	MOVES	0.0020	0.0000	18.0%	land area (1)	0.0004	0.0000
2270005035	Agriculture	Diesel Sprayers	MOVES	0.1494	0.0008	18.0%	land area (1)	0.0269	0.0001
2270005040	Agriculture	Diesel Tillers > 6 HP	MOVES	0.0002	0.0000	18.0%	land area (1)	0.0000	0.0000
2270005045	Agriculture	Diesel Swathers	MOVES	0.1399	0.0008	18.0%	land area (1)	0.0252	0.0001
2270005055	Agriculture	Diesel Other Agricultural Equipment	MOVES	0.3091	0.0017	18.0%	land area (1)	0.0556	0.0003
2270005060	Agriculture	Diesel Irrigation Sets	MOVES	0.1721	0.0009	18.0%	land area (1)	0.0310	0.0002
2270006005	Commercial	Diesel Light Commercial Generator Sets	MOVES	0.9689	0.0026	69.4%	population	0.6724	0.0018
2270006010	Commercial	Diesel Light Commercial Pumps	MOVES	0.2237	0.0006	69.4%	population	0.1553	0.0004
2270006015	Commercial	Diesel Light Commercial Air Compressors	MOVES	0.3735	0.0010	69.4%	population	0.2592	0.0007
2270006025	Commercial	Diesel Light Commercial Welders	MOVES	0.6426	0.0017	69.4%	population	0.4460	0.0012
2270006030	Commercial	Diesel Light Commercial Pressure Washer	MOVES	0.0342	0.0001	69.4%	population	0.0237	0.0001
2270006035	Commercial	Diesel Hydro Power Units	MOVES	0.0168	0.0000	69.4%	population	0.0117	0.0000
2270007015	Logging	Diesel Logging Equip Fell/Bunch/Skidlers	MOVES	0.0336	0.0001	21.0%	land area	0.0071	0.0000
2270008005	Airport Support	Diesel Airport Support Equipment	USEPA	0.0004	0.0000	-	airport location (2)	0.0000	0.0000
2270010010	Oil Field	Diesel Other Oil Field Equipment	MOVES	0.0000	0.0000	21.0%	land area	0.0000	0.0000
2275001000	Aircraft	Military Aircraft	USEPA	0.1771	0.0005	0.0%	airport location (2)	0.0000	0.0000
2275050011	Aircraft	General Aviation, Piston	USEPA	1.5816	0.0044	1.5%	airport location (2)	0.0237	0.0001
2275050012	Aircraft	General Aviation, Turbine	USEPA	2.7886	0.0078	0.8%	airport location (2)	0.0230	0.0001
2275060011	Aircraft	Air Taxi, Piston	USEPA	0.0448	0.0001	0.0%	airport location (2)	0.0000	0.0000
2275060012	Aircraft	Air Taxi, Turbine	USEPA	0.9511	0.0027	0.0%	airport location (2)	0.0000	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	USEPA	0.0000	0.0000	-	airport location (2)	0.0000	0.0000
2280000000	Comm. Mar.	All Commercial Marine Vessels	LADCO	1.0438	0.0046	100.0%	Lk. Mich. Shoreline	1.0438	0.0046
2282005010	Pleasure Craft	2-Stroke Outboards	MOVES	41.4655	0.3019	81.0%	water area (3)	33.5871	0.2445
2282005015	Pleasure Craft	2-Stroke Personal Watercraft	MOVES	9.0495	0.0681	81.0%	water area (3)	7.3301	0.0552
2282010005	Pleasure Craft	4-Stroke Inboards	MOVES	18.0727	0.1213	81.0%	water area (3)	14.6388	0.0982
2282020005	Pleasure Craft	Diesel Inboards	MOVES	1.1259	0.0086	81.0%	water area (3)	0.9119	0.0069
2282020010	Pleasure Craft	Diesel Outboards	MOVES	0.0030	0.0000	81.0%	water area (3)	0.0025	0.0000
2285002006	Railroad	Diesel Locomotives, Class I Operations	USEPA	0.5060	0.0014	50.0%	rail routes (4)	0.2530	0.0007
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	USEPA	0.8170	0.0023	50.0%	rail routes (4)	0.4085	0.0011
2285002008	Railroad	Diesel Locomotives, Passenger	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	USEPA	0.0000	0.0000	-	rail routes (4)	0.0000	0.0000
2285002015	Railroad	Diesel Railway Maintenance	MOVES	0.0239	0.0001	50.0%	rail routes (4)	0.0119	0.0000
2285004015	Railroad	4-Stroke Gasoline Railway Maintenance	MOVES	0.0048	0.0000	50.0%	rail routes (4)	0.0024	0.0000

SCC	Segment Description	SCC Description	Emis. from	Sheboygan County 2015 VOC Emissions		% in NAA	Allocate by	Proposed Sub-County NAA 2015 VOC Emissions	
				tpy	tpsd			tpy	tpsd
2285006015	Railroad	LPG Railway Maintenance	MOVES	0.0000	0.0000	50.0%	rail routes (4)	0.0000	0.0000
ALL	ALL	ALL		577.2222	2.3277			252.7192	1.1334

- (1) Cities of Plymouth, Sheboygan and Sheboygan Falls excluded
- (2) Obtained from USEPA 2011 Modeling Platform, ver. 6. See: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/
- (3) Allocation based on surface water area (145 sq. km. for county and 117 sq. km., 81%, for proposed nonattainment area, from the NMIM2009 files WI_WIB.ALO and WI_WOB.ALO).
- (4) Two major rail routes traverse the length of Sheboygan County, one in the proposed sub-county nonattainment area and the other not in that area.

Appendix E: 2011 and 2015 Aircraft, Commercial Marine Vessels and Locomotives Emissions

WDNR interpolated between base year 2011 and 2018 to derive emission projections for the attainment year 2015.

Table E-1

Kenosha County and Sub-County Nonattainment Area (I-94 and to the East) 2011, 2018 and Interpolated 2015 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	USEPA Kenosha County NO _x Emissions (tpy)		USEPA Growth Factors from 2011 to:		Kenosha County Interpolated 2015 NO _x Emissions (tpy)	Emis: (Annual/Summer Day)	Kenosha County 2015 NO _x Emis. (tpsd)	% in Sub-County NAA	Allocate by:	Kenosha Sub-County NAA 2015 NO _x Emis. (tpsd)
			2011	2018	2018	2015 (Interpolated)						
2265008005	Airport	4-Stroke Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2267008005	Airport	LPG Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2268008005	Airport	CNG Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2270008005	Airport	Diesel Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2275001000	Aircraft	Military Aircraft	0.0071	0.0072			0.0072	361.11	0.0000	100.0%	Airport Location	0.0000
2275050011	Aircraft	General Aviation, Piston	0.8815	0.8930			0.8881	361.11	0.0025	59.6%	Airport Location	0.0015
2275050012	Aircraft	General Aviation, Turbine	1.6692	1.6908			1.6815	361.11	0.0047	61.2%	Airport Location	0.0029
2275060011	Aircraft	Air Taxi, Piston	0.0190	0.0265			0.0233	361.11	0.0001	100.0%	Airport Location	0.0001
2275060012	Aircraft	Air Taxi, Turbine	0.3340	0.4650			0.4089	361.11	0.0011	100.0%	Airport Location	0.0011
2275070000	Aircraft	Aircraft Auxiliary Power Units	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
TOTAL AIRCRAFT			2.9109	3.0825			3.0089	361.11	0.0083	66.2%	Airport Location	0.0055
2280000000	Comm. Mar.	All Commercial Marine Vessels	56.2496		0.76226	0.86415	48.6081	268.16	0.1813	100.0%	Lake Michigan	0.1813
TOTAL COMMERCIAL MARINE			56.2496		0.76226	0.86415	48.6081	268.16	0.1813	100.0%	Lake Michigan	0.1813
2285002006	Railroad	Diesel Locomotives, Class I Operations	249.5005	205.9500			224.6145	362.00	0.6205	60.0%	Rail Links	0.3722
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Links	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	0.0000	0.1028			0.1028	362.00	0.0003	60.0%	Rail Links	0.0002
2285002009	Railroad	Diesel Locomotives, Commuter	0.0000	0.2943			0.2943	362.00	0.0008	60.0%	Rail Links	0.0005
TOTAL LOCOMOTIVES			249.5005	206.3471			225.0116	362.00	0.6216	60.0%	Rail Links	0.3728

Table E-2

Sheboygan County Nonattainment Area and Proposed Sub-County Nonattainment Area 2011, 2018 and Interpolated 2015 NO_x Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	USEPA Sheboygan County NO _x Emissions (tpy)		USEPA Growth Factors from 2011 to:		Sheboygan County Interpolated 2015 NO _x Emissions (tpy)	Emis: (Annual/Summer Day)	Sheboygan County 2015 NO _x Emis. (tpsd)	% in Proposed Sub-County NAA	Allocate by:	Sheboygan Sub-County Proposed NAA 2015 NO _x Emis. (tpsd)
			2011	2018	2018	2015 (Interpolated)						
2265008005	Airport	4-Stroke Airport Support Equipment	0.0002	0.0003			0.0003	361.11	0.0000	0.0%	Airport Location	0.0000
2267008005	Airport	LPG Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2268008005	Airport	CNG Airport Support Equipment	0.0000	0.0000			0.0000	361.11	0.0000	-	Airport Location	0.0000
2270008005	Airport	Diesel Airport Support Equipment	0.0012	0.0014			0.0013	361.11	0.0000	0.0%	Airport Location	0.0000
2275001000	Aircraft	Military Aircraft	0.0198	0.0197			0.0197	361.11	0.0001	0.0%	Airport Location	0.0000
2275050011	Aircraft	General Aviation, Piston	0.6755	0.6890			0.6832	361.11	0.0019	1.5%	Airport Location	0.0000
2275050012	Aircraft	General Aviation, Turbine	1.3403	1.3636			1.3536	361.11	0.0037	0.8%	Airport Location	0.0000
2275060011	Aircraft	Air Taxi, Piston	0.0000	0.0000			0.0000	361.11	0.0000	0.0%	Airport Location	0.0000
2275060012	Aircraft	Air Taxi, Turbine	0.7604	0.7160			0.7350	361.11	0.0020	0.0%	Airport Location	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	0.0001	0.0002			0.0002	361.11	0.0000	0.0%	Airport Location	0.0000
TOTAL AIRCRAFT			2.7976	2.7901			2.7933	361.11	0.0077	0.8%	Airport Location	0.0001
2280000000	Comm. Mar.	All Commercial Marine Vessels	36.6737		0.76226	0.86415	31.6916	266.01	0.1191	100.0%	Lake Michigan	0.1191
TOTAL COMMERCIAL MARINE			36.6737		0.76226	0.86415	31.6916	266.01	0.1191	100.0%	Lake Michigan	0.1191
2285002006	Railroad	Diesel Locomotives, Class I Operations	12.6692	10.2879			11.3085	362.00	0.0312	50.0%	Rail Routes	0.0156
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	19.6961	20.8207			20.3387	362.00	0.0562	50.0%	Rail Routes	0.0281
2285002008	Railroad	Diesel Locomotives, Passenger	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Routes	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Routes	0.0000
TOTAL LOCOMOTIVES			32.3653	31.1086			31.6472	362.00	0.0874	50.0%	Rail Routes	0.0437

Table E-3

Kenosha County and Sub-County Nonattainment Area (I-94 and to the East) 2011, 2018 and Interpolated 2015 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	USEPA Kenosha County VOC Emissions (tpy)		USEPA Growth Factors from 2011 to:		Kenosha County Interpolated 2015 VOC Emissions (tpy)	Emis: (Annual/Summer Day)	Kenosha County 2015 VOC Emis. (tpsd)	% in Sub-County NAA	Allocate by:	Kenosha Sub-County NAA 2015 VOC Emis. (tpsd)
			2011	2018	2018	2015 (Interpolated)						
2265008005	Airport	4-Stroke Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2267008005	Airport	LPG Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2268008005	Airport	CNG Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2270008005	Airport	Diesel Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2275001000	Aircraft	Military Aircraft	0.0642	0.0648			0.0645	357.35	0.0002	100.0%	Airport Location	0.0002
2275050011	Aircraft	General Aviation, Piston	2.0407	2.0673			2.0559	357.35	0.0058	59.6%	Airport Location	0.0034
2275050012	Aircraft	General Aviation, Turbine	3.5550	3.6009			3.5812	357.35	0.0100	61.2%	Airport Location	0.0062
2275060011	Aircraft	Air Taxi, Piston	0.0204	0.0284			0.0250	357.35	0.0001	100.0%	Airport Location	0.0001
2275060012	Aircraft	Air Taxi, Turbine	0.4333	0.6033			0.5304	357.35	0.0015	100.0%	Airport Location	0.0015
2275070000	Aircraft	Aircraft Auxiliary Power Units	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
TOTAL AIRCRAFT			6.1136	6.3646			6.2570	357.35	0.0175	64.4%	Airport Location	0.0113
2280000000	Comm. Mar.	All Commercial Marine Vessels	1.9142		0.77150	0.86943	1.6643	263.90	0.0063	100.0%	Lake Michigan	0.0063
TOTAL COMMERCIAL MARINE			1.9142		0.77150	0.86943	1.6643	263.90	0.0063	100.0%	Lake Michigan	0.0063
2285002006	Railroad	Diesel Locomotives, Class I Operations	12.2587	7.6351			9.6166	362.00	0.0266	60.0%	Rail Links	0.0159
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Links	0.0000
2285002008	Railroad	Diesel Locomotives, Passenger	0.0000	0.0053			0.0053	362.00	0.0000	60.0%	Rail Links	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	0.0000	0.0151			0.0151	362.00	0.0000	60.0%	Rail Links	0.0000
TOTAL LOCOMOTIVES			12.2587	7.6556			9.6371	362.00	0.0266	60.0%	Rail Links	0.0160

Table E-4

Sheboygan County Nonattainment Area and Proposed Sub-County Nonattainment Area 2011, 2018 and Interpolated 2015 VOC Emissions: tons per year (tpy) and tons per summer day (tpsd)

SCC	Segment Description	SCC Description	USEPA Sheboygan County VOC Emissions (tpy)		USEPA Growth Factors from 2011 to:		Sheboygan County Interpolated 2015 VOC Emissions (tpy)	Emis: (Annual/Summer Day)	Sheboygan County 2015 VOC Emis. (tpsd)	% in Proposed Sub-County NAA	Allocate by:	Sheboygan Sub-County Proposed NAA 2015 VOC Emis. (tpsd)
			2011	2018	2018	2015 (Interpolated)						
2265008005	Airport	4-Stroke Airport Support Equipment	0.0001	0.0001			0.0001	357.35	0.0000	0.0%	Airport Location	0.0000
2267008005	Airport	LPG Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2268008005	Airport	CNG Airport Support Equipment	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
2270008005	Airport	Diesel Airport Support Equipment	0.0003	0.0004			0.0004	357.35	0.0000	0.0%	Airport Location	0.0000
2275001000	Aircraft	Military Aircraft	0.1774	0.1769			0.1771	357.35	0.0005	0.0%	Airport Location	0.0000
2275050011	Aircraft	General Aviation, Piston	1.5639	1.5949			1.5816	357.35	0.0044	1.5%	Airport Location	0.0001
2275050012	Aircraft	General Aviation, Turbine	2.7573	2.8121			2.7886	357.35	0.0078	0.8%	Airport Location	0.0001
2275060011	Aircraft	Air Taxi, Piston	0.0463	0.0436			0.0448	357.35	0.0001	0.0%	Airport Location	0.0000
2275060012	Aircraft	Air Taxi, Turbine	0.9839	0.9265			0.9511	357.35	0.0027	0.0%	Airport Location	0.0000
2275070000	Aircraft	Aircraft Auxiliary Power Units	0.0000	0.0000			0.0000	357.35	0.0000	-	Airport Location	0.0000
TOTAL AIRCRAFT			5.5292	5.5545			5.5436	357.35	0.0155	0.8%	Airport Location	0.0001
2280000000	Comm. Mar.	All Commercial Marine Vessels	1.2006		0.77150	0.86943	1.0438	225.91	0.0046	100.0%	Lake Michigan	0.0046
TOTAL COMMERCIAL MARINE			1.2006		0.77150	0.86943	1.0438	225.91	0.0046	100.0%	Lake Michigan	0.0046
2285002006	Railroad	Diesel Locomotives, Class I Operations	0.6504	0.3977			0.5060	362.00	0.0014	50.0%	Rail Routes	0.0007
2285002007	Railroad	Diesel Locomotives, Line, Class II/III Ops	0.7658	0.8554			0.8170	362.00	0.0023	50.0%	Rail Routes	0.0011
2285002008	Railroad	Diesel Locomotives, Passenger	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Routes	0.0000
2285002009	Railroad	Diesel Locomotives, Commuter	0.0000	0.0000			0.0000	362.00	0.0000	-	Rail Routes	0.0000
TOTAL LOCOMOTIVES			1.4162	1.2531			1.3230	362.00	0.0037	50.0%	Rail Routes	0.0018

The link to the USEPA 2011 aircraft emissions is ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/point_by_state/

From there one should click on: WI_point_2011.zip, and then open the file WI_2011NEIv1_POINT_20130723_revised_ptnonipm_15aug2013_v3.csv

The links to the USEPA 2011 commercial marine emissions are <http://www.epa.gov/ttnchie1/net/2011inventory.html> (2011 NEI) and

ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/ (2011 Modeling Platform; which presents updated emission estimates provided by LADCO)

From the modeling platform link, one should click on:

- WI_nonpoint2011.zip, and then open the file: WI_2010LADCO_CMV_19sep2013_v1.csv
- IL_nonpoint2011.zip, and then open the file: IL_2010LADCO_CMV_19sep2013_v1.csv
- IN_nonpoint2011.zip, and then open the file: IN_2010LADCO_CMV_19sep2013_v1.csv

- MI_nonpoint2011.zip, and then open the file: MI_2010LADCO_CMV_19sep2013_v1.csv

From both the 2011 NEI webpage and from these four modeling platform files, WDNR obtained commercial marine emissions for the 33 counties adjacent to Lake Michigan, which are:

- Wisconsin (10): Brown, Door, Kenosha, Kewaunee, Manitowoc, Marinette, Milwaukee, Ozaukee, Racine and Sheboygan
- Illinois (2): Cook and Lake
- Indiana (3): Lake, LaPorte and Porter, and
- Michigan (18): Allegan, Antrim, Barrien, Benzie, Charlevoix, Delta, Emmet, Grand Traverse, Leelanau, Mackinaw, Manistee, Mason, Memominee, Muskegon, Oceana, Ottawa, Schoolcraft and Van Buren

WDNR used data from both the 2011 NEI and the 2011 Modeling Platform to estimate commercial marine emissions, because each of these data sources has advantages over the other: the NEI has data for each of the 33 counties, while the Modeling Platform has the updated LADCO emission estimates. However, the total emissions over Lake Michigan in the Modeling Platform are only allocated to a subset of the 33 counties. Thus, to obtain the emissions estimates for Kenosha and Sheboygan Counties, the WDNR allocated the total emissions over Lake Michigan from the Modeling Platform to Kenosha and Sheboygan Counties based on the percentage of total Lake Michigan commercial marine emissions for those two counties in the 2011 NEI.

The link for the 2011 locomotive emissions is: ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2011emissions/nonpoint_by_state/

From there one should click on: WI_nonpoint_2011.zip, and then open the file WI_rail_2011NEIv1_nonpoint_20130911_20sep2013_v1.csv

The link to the USEPA 2018 aircraft emissions is ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2018emissions/point_by_state/

From there one should click on: WI_point_2018.zip, and then open the file

WI_2018ed_from_no_ethanol_2011NEIv1_POINT_20130723_revised_ptnonipm_05dec2013_v0

The link to the USEPA 2018 commercial marine and locomotive emissions and growth factors is

ftp://ftp.epa.gov/EmisInventory/2011v6/v1platform/2018emissions/nonpoint_by_state/

From there one should click on: WI_nonpoint_2018.zip, and then open the file WI_c1c2rail_noCALIF_2018ed_06dec2013_v0

The annual to summer day conversion factors were developed using LADCO inventory data at <http://www.ladco.org/tech/emis/current/index.php>